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INTRODUCTION

The following document assembles the 808 bibliographic references cited for every paper presented at the 9 different conference program sessions of the *7th International Conference on Maritime Transport* being held in Barcelona June 27-29, 2016.

The aim of this project is to increase easiness when accessing the sources cited by the authors of the papers facilitating dissemination of the content of scholarly publications and other sources used by researchers.

The bibliography has been revised and modified in order to meet one standardized format. Whenever possible a link has been added for every cited work. Due to the fact that every link has been accessed during the months of May and June that information is not being mentioned in the citations.

To access the content of every source listed, the link or links facilitated lead to one or more of the following:

1.- Online full text available: a link to a free version of the full text.

International Hydrographic Organization . *Manual on Hydrography* [online] : *publication C-13*. 1st Edition (Corrections to February 2011). Monaco: IHO, 2011. Available at: <<http://bit.ly/1ttFjjs>>

2.- Online restricted access: a link to the electronic version of the work but subscription or payment is necessary to view the content.

Carić H. Cruising Tourism Environmental Impacts: Case Study of Dubrovnik, Croatia. In: *Journal of Coastal Research: Special Issue 61*. [online]. Management of Recreational Resources: 2011. pp. 104 – 113. Restricted access: <<http://www.jcronline.org/doi/abs/10.2112/SI61-001.2>>

3.- Online available only to UPC users: a link to a UPC catalog entry or direct access to the source for the online version of the document to which the UPC libraries' subscribe.

Chybowski L. ; Laskowski R. ; Gawdzińska K. An overview of systems supplying water into the combustion chamber of diesel engines to decrease the amount of nitrogen oxides in exhaust gas. In: *Journal of Marine Science and Technology*, [online], 2015, vol. 20, no. 3, p. 393-405. Available only to UPC users: <<http://dx.doi.org/10.1007/s00773-015-0303-8> >

4.- Available at UPC: a link to a UPC catalog entry for a print version of the document. It shows the UPC libraries' owning the work.

Castells M. ; de Osés, FXM.,. ; Ordás S. ; Borén C. ; Nikolic D. ; Basic D. *Modernizing and Harmonizing Maritime Education in Montenegro and Albania. Mared Project*. In: Proceedings 16th IAMU Annual General Assembly 2015. Croatia: University of Rijeka, 2015. Available at UPC: <http://cataleg.upc.edu/record=b1467216~S1*cat>.

5.- Available at Catalan universities: a link to the Catalan universities' union catalog, CCUC, showing which libraries own the work.

David Crystal. *The Language Revolution*. [online]. Cambridge: Polity Press, 2004. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b3350409~S23*cat>

6.- Available at Spanish universities: a link to the Spanish universities' union catalog, REBIUN, showing which libraries own the work.

Bergueiro, J. R. *La gestión de los derrames de hidrocarburos en el mar*. Palma de Mallorca : Área de Ingeniería Química. Facultad de Ciencias. Universidad de las Islas Baleares, 2001. Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun09835115>>

7.- Available at Worldcat: provided by the Online Computer Library Center, Worldcat is the world's largest network of library content and services. The link shows which library or libraries own the work of all the international participant institutions.

Krile, S. ; Krile, M. Better Profitability of Multi-Stop Flight Routes. In: *Proc. of. International Conference of Automation in Transportation (KOREMA)*, [online], 2012, Zagreb - Wien, p.97-100. Available at Worldcat: <<http://www.worldcat.org/oclc/852392736>>

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SESSION 1: MARITIME POLICIES AND ISSUES

Classification societies rules for cold ironing. Comparison and current situation

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American Bureau of Shipping. *High voltage shore connections* [online]. Houston: American Bureau of Shipping, 2011. Available at: <<http://bit.ly/1U678GT>>

Bureau Veritas. *High-voltage shore connection system* [online] : *Rule Note NR 557 DT R00E*. Neuilly sur Seine France: Bureau Veritas, 2010. Available at: <<http://bit.ly/1PEvKHZ>>

Det Norske Veritas. *Electrical shore connections/cold ironing* [online]. Hamburg: DNV, 2014. Available at: <<https://rules.dnvgl.com/docs/pdf/DNV/stdcert/2014-07/Standard2-25.pdf>>

International Organization for Standardization. *ISO/IEC/IEEE 80005-1: High voltage shore connection (HVSC) systems – General requirements*. Ginebra: ISO, 2012. Restricted access: <http://www.iso.org/iso/catalogue_detail.htm?csnumber=53588>

Rules and regulations for the classification of ships [online] : *Part 7, Chapter 13 Other Ship Types and Systems*. London: Lloyd's Register, 2014. Restricted access: <<http://www.lr.org/en/RulesandRegulations/ships.aspx>>

Rules for classification of ships [online] : *Part 4 Systems and components, Chapter 8 Electrical instalations*. Hamburg: DNV GL, 2016. Available at: <<http://bit.ly/1Yd4cuV>>

Rules for the classification of ships [online] : *Part F Additional Class Notations, Chapter13, Section 15 High voltage shore connection (HVSC)*. Genova: RINA, 2015. Available at: <<https://www.ufpe.br/engnaval/images/pdf/Classificadoras/RINA/partf.pdf>>

Rules for classification of ships / high speed, lighth craft and naval surface craft [online] : *Part 6, Chapter 29 Electrical shore connections*. Hamburg: DNV, 2014. Available at: <<https://rules.dnvgl.com/docs/pdf/DNV/rulesship/2014-07/ts629.pdf>>

Risk Driven Semantic Interoperability in the maritime surveillance domain

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Bradburn, N.; Sudman, S.; Wansink, B. *Asking questions: a practical guide to questionnaire design*. San Francisco: Jossey-Bass, 2004. Available at: <<http://bit.ly/PVCpzB>>

Bryton, F.E ; Martínez, J.E ; Delgado, O. Information sharing performance management - a semantic interoperability assessment in the maritime surveillance domain. In: *IC3K 2015 : Proceedings of the 7th international joint conference on knowledge discovery, knowledge engineering and knowledge management, November 12-14, 2015*, [online]. Lisbon, Portugal. Lisboa: ScitePress, 2015, p. 382-393. Available at: <<http://bit.ly/28LZTnB>>
Available at Worldcat: < <http://www.worldcat.org/oclc/945435121> >

Chen, S. J. ; Hwang, C. L. *Fuzzy multiple attribute decision making: methods and applications*. Berlin: Springer-Verlag, 1992. Lecture Notes in Economics and Mathematical Systems n. 375. ISBN 978-3-540-54998-7. Restricted access: <<http://www.springer.com/gp/book/9783540549987>>

Council of the European Union. *European Union maritime security strategy* [online]. Brussels: European Commission, 2014. Available at: <<http://bit.ly/1rTT1X8> >

Directorate-General for Maritime Policy. *National ocean strategy 2013-2020*. [online] Lisbon: Portuguese Directorate-General for Maritime Policy, 2013. Available at: <http://www.dgpm.mam.gov.pt/Documents/ENM_Final_EN_V2.pdf>

Dresch, A.; Lacerda, D.; Antunes, J. *Design science research: a method for science and technology advancement*. [online]. Berlín: Springer, 2015. Restricted access: <<http://www.springer.com/us/book/9783319073736>>

European Commission, *Integrating maritime surveillance. Common information sharing environment (CISE)*. [online]. Luxembourg: Publications Office of the European Union, 2010. ISBN 978-92-79-17050-8. Available at: <<http://bit.ly/1r94TAu>>

European Commission. *eHealth Action Plan 2012-2020 - Innovative healthcare for the 21st century* [online]: COM(2012) 736 final. Brussels: European Commission, 2012. Available at: <<http://bit.ly/28LJCKK>>. In Spanish Available at: <http://bit.ly/28OwXcP>>

European Commission. *An integrated maritime policy for the European Union* [online]: COM (2007) 575 final. Luxembourg: Publications Office of the European Union, 2007. Available at: <<http://bit.ly/1qF5wqT>>. In Spanish available at: <<http://bit.ly/28PD15X>>

European Commission. *EUCISE2020-ASI* [online]: *European test bed for the maritime common information sharing environment in the 2020 perspective*. Brussels: European Commission, 2015-. Available at: <<http://www.eucise2020.eu/>>

European commission. *Towards interoperability for European public services* [online]: COM(2010) 744 final. Brussels: European Commission, 2010. Available at: <http://ec.europa.eu/isa/documents/isa_iop_communication_en.pdf>. In Spanish available at: <http://bit.ly/28M1euG>>

European Union. *European interoperability framework (EIF)* [online]: *Towards interoperability for European public services*. Luxembourg: Publications Office of the European Union, 2011. ISBN 978-92-79-21515-5 Available at: <http://ec.europa.eu/isa/documents/eif_brochure_2011.pdf>

Finnish Border Guard. *Test project on cooperation in execution of various maritime functionalities at sub-regional or sea-basin level in the field of integrated maritime surveillance (CoopP)* [online] : *Final report*. Helsinki: Finnish Border Guard, 2014. ISBN 978-952-491-902-9. Available at: <<http://bit.ly/28WGcGV>>

Fishburn, P. C. Additive utilities with incomplete product set: applications to priorities and assignments. In: *Operations Research*. [online]. Maryland: Informs, 1967. Available only to UPC users: <<http://pubsonline.informs.org/doi/pdf/10.1287/opre.15.3.537>>

Hevner, A. [et al]. Design science in information systems research. In: *Mis Quarterly*. [online]. Minneapolis: Carlson School of Management. University of Minnesota, 2004. Vol. 28, no. 1, p. 75–105. Available at: <<http://www.csis.ul.ie/staff/brianFit/phd-seminar-series/Hevner-et-al-2004-misq--des-sci.pdf>>

Hevner, A. R.; Chatterjee, S. *Design Research in Information Systems*. [online]. New York: Springer, 2010. Available at Catalan universities: <http://uoc.cbuc.cat/record=b1042799~S1*cat> Restricted access: <<http://www.springer.com/us/book/9781441956521>>

Hwang, F. *An expert decision making support system for multiple attribute decision making*. [online] Manhattan, : Kansas State University, 1987. Restricted access: <<http://bit.ly/28KKvYc>>

ICF International. *Study on the feasibility of improved co-operation between bodies carrying out European Coast Guard functions* [online]. Brussels: ICF International, 2014. Available at: <<http://ec.europa.eu/transport/modes/maritime/studies/doc/2014-06-icf-coastguard.pdf>>

Linstone, H.A.; Turoff, M. *The Delphi method: techniques and applications*. [online] Reading: Addison-Wesley Educational Publishers Inc, 1975. ISBN 0-201-04294-0 Available at: <<http://is.njit.edu/pubs/delphibook/delphibook.pdf>>

Peppers K.; Tuunanen T.; Rothenberger M. A.; Chatterjee S. A design science research methodology for information systems research. In: *Journal of management information systems* [online]. 2007, Vol. 24, no. 3, p. 45–77. Available at: <<http://bit.ly/1GJjCPK>>

Pries-Heje, J.; Baskerville, R. The design theory nexus. In: *Mis Quarterly*. [online]. Minneapolis: Carlson School of Management. University of Minnesota, 2008, Vol. 32, no. 4, p. 731–755. Available at <http://bit.ly/28JEkCB>>

Secrétariat Général de la Mer. *BlueMassMed* [oline]: *Final report*. Paris, 2012. Available at: <<http://bit.ly/28LA7zS>>

Simon, H. A. *The sciences of the artificial*. 3rd ed. Cambridge: MIT Press, 1996. Available at UPC: <http://cataleg.upc.edu/record=b1119072~S1*cat>

Tremblay, M. C.; Hevner, A. R.; Berndt, D. J. Focus groups for artifact refinement and evaluation in design research. In: *Communications of the association for information systems*, [online]. 2010, Vol. 26, Article 27, p. 599-618. ISSN: 1529-3181. Available at: <<http://aisel.aisnet.org/cgi/viewcontent.cgi?article=3526&context=cais>>

Triantaphyllou, E. *Multi-criteria decision making methods: a comparative study*. [online] Boston: Springer, 2000. Restricted access: <<http://bit.ly/28KKy6t>>

Digital maritime regulations: applications to ships and ports

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(PIDE) [online] : *Procedimiento Integrado de Escalas en el Puerto de Barcelona*. Versión 2.0. 2013. [Barcelona] : Port de Barcelona. Available at: <<http://bit.ly/28JptID>>

Abdallah, S.A.; Ferris, B. *The Ordered List Ontology 0.72* [online]. 2010. Available at: <<http://smiy.sourceforge.net/olo/spec/orderedlistontology.html>>

ASIS&T. *The Dublin core metadata initiative (DCMI)* [online]. [2016]. Available at: <<http://dublincore.org/>>

CEN MetaLex [online]: *Open XML Interchange format for legal and legislative resources*. [2010]. Available at: <<http://www.metalex.eu/>>

Deliverable 1.5 [online].: *Services and Tools Specifications*. In: *e-Compliance*. Teddington: eComplicance, [201-]. Available at: <<http://www.e-compliance-project.eu/>>

Deliverable 3.1: *Creation Services* In: *e-Compliance*. Teddington.

Deliverable 4.4 [online].: *Revised Services* In: *e-Compliance*. Teddington: eComplicance, [201-]. Available at: <<http://www.e-compliance-project.eu/>>

España. Ministerio de la Presidencia. Orden FOM/1194/2011, de 29 de abril, por la que se regula el procedimiento integrado de escala de buques en los puertos de interés general In: *Boletín Oficial del Estado*. [online]. Madrid : BOE, no. 114, 13 de mayo de 2011, p. 48554-48581. Available at: <http://www.boe.es/diario_boe/txt.php?id=BOE-A-2011-8339>

España. Puertos del estado. *National single window (DUEPORT)* [online]. Available at: <<http://bit.ly/28KJpda>>

Expert System. *Luxid annotation service* [online]. [2016]. Available at: <<http://www.expertsystem.com/products/luxid-annotation-server/>>

Hagaseth, M. ; Lohrmann, P. Deliverable 5.3: *Creation System* In: *e-Compliance*. Teddington : eComplicance, 2016. Available at: <<http://bit.ly/28O4DHn>>

Hagaseth, M. ; Lohrmann, P. Deliverable D2.1 [online].: *Repository Design* In: *e-Compliance*. Calgary : eComplicance, 2015. Available at: <http://www.e-compliance-project.eu/media/1041/d21_repository-design.pdf>

Information system Group. *Hermit TOWL Reasoner* [online]. Oxford : University of Oxford, [2016]. Available at: <<http://www.hermit-reasoner.com/>>

International convention for the prevention of pollution from ships (MARPOL). London : OMI, 2011. Available at UPC: <http://cataleg.upc.edu/record=b1412340~S1*cat>

International convention for the safety of life at sea (SOLAS), 1974. Londres : OMI, [2016]. Available at UPC : <http://cataleg.upc.edu/record=b1374139~S1*cat>. Online available only to UPC users : <http://cataleg.upc.edu/record=b1472503~S1*cat>

International Maritime Organization. *Shipping in polar waters: [online] adoption of an international code of safety for ships operating in polar waters (Polar Code)*. London, 2016. Available at: <<http://bit.ly/1ojNz2N>>

Lohrmann, P. [et al.]. Deliverable 2.2 [online]: *Ontology*. In: *e-Compliance*. Teddington : eComplicance, 2014. Available at: <<http://www.e-compliance-project.eu/media/1028/d22-final.pdf>>

Lohrmann, P. [et al.]. Deliverable 5.2 [online] : *Ship System*. In: *e-Compliance*. Teddington : eComplicance, 2016. Available at: <<http://bit.ly/28LNdiO>>

Miles, A. ; Bechhofer, S. SKOS [online] *Simple Knowledge Organization System RDF Schema*. 2008. Available at: <<https://www.w3.org/TR/2008/WD-skos-reference-20080829/skos.html>>

Neo Technology, Inc. *Neo4j* [online]: *Introducing the open cypher project*. 2016. Available at: <<http://neo4j.com/>>

Sirin, E. [et al.]. Pellet [online] : a practical OWL-DL reasoner. In: *Journal of web semantics: science, services and agents on the world wide web*. Oxford: University of Oxford, 2007, Vol. 5, no. 2, p. 51-53. Available at: <<http://bit.ly/28PLvtY>>

Stanford Center for Biomedical Informatics Research. *Protégé system*. [online]. Stanford University, [2016]. Available at: <<http://protege.stanford.edu/>>

The Apache Software Foundation. *Apache Giraph* [online]. 2011-2016. Available at: <<http://giraph.apache.org/>>

The Apache Software Foundation. *Apache Jena* [online]. 2011-2016. Available at: <<https://jena.apache.org/>>

The Apache Software Foundation. *Apache Jena* [online] : *Documentation*. 2011-2016. Available at: <<https://jena.apache.org/documentation/query/>>

United Nations. *United Nations convention on the law of the sea* [online]. 2016. Available at: <http://www.un.org/depts/los/convention_agreements/texts/unclos/UNCLOS-TOC.htm>

Jensen, Ø. The international code for ships operating in polar waters: finalization, adoption and law of the sea implications. In: *Arctic review on law and politics*. [online]. Norway: Cappelen Damm Akademisk NOASP, 2016, Vol. 7, no. 1, p. 1-23. Available at: <<https://arcticreview.no/index.php/arctic/article/view/236>>

Vasileiou, K. [et al.]. Deliverable 1.2 [online]: policy, legal and standards analysis In: *e-Compliance*. Teddington,: eComplicance, 2013. Available at: <<http://www.e-compliance-project.eu/media/1045/d12-revised.pdf>>

W3C. *OWL Web ontology language overview* [online]. [2016]. Available at: <<https://www.w3.org/TR/owl-features/>>

W3C. RDF Working group. *Resource description framework (RDF)* [online]. [2016]. Available at: <<https://www.w3.org/RDF/>>

Maritime museum section – an innovative tourism product for Shkodra region

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Barleti, M. *Rrethimi i Shkodres*. Tirane: Naim Frasheri, 1982. Available at Worldcat: <<http://www.worldcat.org/oclc/18020812>>

Celiku, S. *Transporti dhe historia e detarise*. Zeri i Popullit.

Girard, L. F. ; Nijkamp, P. *Cultural tourism and sustainable local development*. Farham : Ashgate, 2009. Available at Worldcat: <<http://www.worldcat.org/oclc/298131254>>

International Council of Museum. *The world museum community*. [online]. ICOM, 2010-2016. Available at: <<http://icom.museum/the-vision/museum-definition/>>

Ivezaj, G. Historia e Shkodres dje dhe sot In: *Ballikombit* [online]. 24 maj 2010. Available at: <<http://bit.ly/28KrvbT>>

Jubani, B. *Historia e popullit shqiptar*. Tirane: SHBLSH, 2003.

Juka, F. *The museum of Shkodra “Oso Kuka”*. M.Mokçi. (2016, February 10). Personal interview.

Kristo, V. ; Papajani, S. *Gjeografia e pergjithshme : për shkollat e mesme*. Tirane: SHBLSH, 1995. Available at Worldcat: <<http://www.worldcat.org/oclc/837528325>>

Levitt, T. Marketing intangible products and product intangibles In: *Harvard Business Review* [online]. Cambridge, MA : Harvard Business Publishing, 1981, May, p. 37-44. Available at: <<http://bit.ly/1YYYnj4>>

Livy, T. L. *The history of Rome* [online]. Available at: <<http://go.mu.edu/28N2dLx>>

McKreshner, B. ; Du Cros, H. *Cultural tourism : the partnership between tourism and cultural heritage management*. New York : Haworth Hospitality Press, 2002. Available at Worldcat: <<http://www.worldcat.org/oclc/47665512>>

Middleton, V. ; Clarke, J. *Marketing in travel and tourism*. Boston : Butterworth-Heinemann, 2001. Available at Worldcat: <<http://www.worldcat.org/oclc/815527954>>

Pirnar, I. ; Bulut, C. ; Engin, E. Improving the performance and competitiveness of tourism establishments by means of innovation : trends and applications In: *Enlightening Tourism: 1st International Conference Competition and Innovation in Tourism: New Challenges in an Uncertain Environment*, [online], Naples (Italy), 2011, vol. 1, p. 133-143. Available at: <<http://bit.ly/28Kls4w>>

Schumpeter, J. *The theory of economic development*. New Jersey : New Brunswick, 1997. Available at Worldcat: <<http://www.worldcat.org/oclc/8493721>>

Smith, S. The tourism product. In: *Annals of tourism research* [online]. Amsterdam: Elsevier, 1994, Vol. 21, no. 3, p. 582-595. ISSN: 0160-7383. Available at: <<http://www.sciencedirect.com/science/article/pii/016073839490121X>>

Smith, V. *The hosts and guests : the anthropology of tourism*. Philadelphia : University of Pennsylvania Press, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/18521045>>

Tafilica, Z. Sailing in the waters of Shkodra. M. Mokçi (2016, February 08). Bala personal interview.

Timothy, D. ; Boyd, S. *Heritage tourism*. Harlow : Prentice Hall, 2003. Available at Worldcat: <<http://www.worldcat.org/oclc/49991575>>

Zojzi, R. Nga historiku i lundrimit. In: *Vargmal* [online]. 2 February 1968. Available at: <<https://vargmal.org/dan1713>>

Transport Logistics in South Cone of South America

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American Association of Port Authorities. *II Latin American Meeting*, Buenos Aires, 11 - 13 August 1993.

Argentina. Gobierno de la Provincia de San Luis. *Anteproyecto para el desarrollo de una zona de actividades logísticas - ZAL para la provincia de San Luis*.

Asociación Latinoamericana de Integración (ALADI). *Diagnóstico sobre la logística del comercio internacional y su incidencia en la competitividad de las exportaciones de los países miembros : Diagnosis on international trade logistics and its impact on export competitiveness of member countries* [online]. ALADI/SEC/Estudio 141, Diciembre de 2001. Restricted access: <<http://bit.ly/28OHZP7>>

Asociación Nacional de Armadores. *Valparaíso y los armadores chilenos*. Valparaíso : La Asociación, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/25917289>>

Analistas en Sistemas de Transporte Ltda.. *Análisis y desarrollo evaluación sistema de transporte interurbano* [online] : VI Etapa : Informe Ejecutivo. Chile: SECTRA, Ministerio de Planificación, 2000. Available at: <<http://bit.ly/260hkth>>

Beth, H.L. *Port management textbook containerization*. Bremen : Institute of Shipping Economics and Logistics, 1985. Available at Worldcat: <<http://www.worldcat.org/oclc/13550508>>

Bloch, R. Los tres ferrocarriles transandinos. In: *Boletín de difusión académica* [online]. Buenos Aires: Comité de investigación estratégica, Escuela de Defensa Nacional Argentina, 2002, no. 73. ISSN: 1515-7113. Available at: <<http://bit.ly/28KylbK>>

CEPAL. El ferrocarril en el comercio entre Brasil y sus vecinos del cono sur : el potencial de un mayor aprovechamiento. In: *Boletín FAL* [online]. [s.l.] : Unidad de Transporte

CEPAL, Naciones Unidas, 2003, no. 205, Septiembre. Available at:
<<http://repositorio.cepal.org/handle/11362/36267>>

CEPAL. *CEPAL databases and statistical publications (CEPALSTAT)* [online]. 2014. Available at:
<http://estadisticas.cepal.org/cepalstat/web_cepalstat/Portada.asp?idioma=i>

CEPAL. Latin-american customs service and their challenges in facing the new demands of international trade. In: *FAL bulletin*, No. 16, August - September 1993.

Chile portuario: Trabas legales impuestas a las plataformas logísticas. In: *Revista Chile Portuario*, Edición 13, Enero - Febrero 2003.

Chilean Customs Service. *Statistical bulletin*, 1988-2003

Chilean Maritime Chamber. *The Chilean port system : actions and policy through*. Valparaiso: Chilean Maritime Chamber, 1993.

Cipoletta, G.; Sánchez, R. *La industria del transporte marítimo y las crisis* [online]. Santiago de Chile: CEPAL, 2010. (Serie recursos naturales e infraestructura, 149). Available at:
<<http://repositorio.cepal.org/bitstream/handle/11362/6352/lcl3206e.pdf?sequence=1>>

CIS Asociados consultores en transporte S.A. *Análisis y desarrollo evaluación sistema de transporte interurbano : XI Etapa*. Chile: Secretaría ejecutiva de la comisión de planificación de inversiones en infraestructura de transporte, SECTRA, Ministerio de Planificación, 2000.

Corporación Andina de Fomento (CAF). *Ejes de integración y desarrollo : resumen de la visión por ejes* [online]. 2002. Available at: <<http://www.iirsa.org/Page/Detail?menuItem=68>>

Corporación Andina de Fomento (CAF). *Infraestructura, logística y sostenibilidad: temas estratégicos para la competitividad global*. Corporación Andina de Fomento (CAF), 2003.

Costa, P. *Modelo para o desenvolvimento de plataforma logística em um terminal* [online]: *um estudo de caso na estação aduaneira do interior - Itajaí/SC*. Florianópolis : Universidade Federal De Santa Catarina Programa De Pós-Graduação Em Engenharia De Produção, Centro Tecnológico, 1999. Available at:
<<https://repositorio.ufsc.br/handle/123456789/81046>>

Coyle, J.; Bardi, E.; Langley, J. *The management of business logistics*. 5th. Ed. Mason : West Publishing Company, 1992. Available at Catalan universities:
<http://ccuc.cbuc.cat/record=b2986765~S23*cat>

DIRECTEMAR, *Boletín estadístico marítimo* [online]. Ediciones 1980, 1990, 2000, 2012, 2013, 2014 and 2015. Chile. Available at:
<<http://web.directemar.cl/estadisticas/maritimo/>>

Doerr, O. *Políticas portuarias* [online]. Santiago de Chile: CEPAL, 2011. (Serie recursos naturales e infraestructura, 159). Available at: <<http://bit.ly/28Kcbdx>>

Embassy of Chile to Singapore. Cultural Department. *Chile and the Pacific* [online]. [Singapore] : [Cultural Dept. of the Embassy of Chile to Singapore], [1986]. Available at Worldcat: <<http://www.worldcat.org/oclc/32256542>>

Garcia, R. *Comparative analysis between the Port of Valparaíso and the Port of San Antonio. How Maritime Policy affects Port Development*. Malmö : World Maritime University, 1991.

Goss. L. J. *Container transportation costs and profitability 1980/2000*. Londres: CSR Consultants, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/923561654>>

Hersnan, M. J. *Urban ports and harbour Management*. New York : Taylor & Francis, 1988. Available at Worldcat: <<http://www.worldcat.org/oclc/17506350>>

Hoffman, J. ; Pérez, G. ; Wilmsmeier, G. *International trade and transport profiles of Latin American countries, year 2000* [online]. Santiago de Chile: CEPAL, Natural resources and infrastructure division, Transport Unit, 2002. (Serie Manuales, 19). Available at: <<http://repositorio.cepal.org/handle/11362/5581>>

Hoffmann, J.; Pérez, G. *Perfil marítimo de América Latina y el Caribe* [online] = *Maritime profile of Latin America and the Caribbean*. Santiago de Chile: Transport Unit, CEPAL, 2003. (Serie Documentos de Proyectos, 1). Available at: <http://repositorio.cepal.org/bitstream/handle/11362/2720/S2002647_mu.pdf?sequence=1>

IIRSA. *Facilitación del transporte en los pasos de frontera, síntesis y conclusiones*. [online] Available at: <<http://bit.ly/28NqzS6>>

IIRSA. *¿Qué es IIRSA? Iniciativa para la integración de la infraestructura regional Suramericana* <<http://bit.ly/28RI88cna>> [online]. Available at: <<http://walk.caf.com/attach/8/default/Qu%C3%A9esIIRSA.pdf>>

ISL. *Handbook of management*. 3th. Ed. Farnham : Gower Publishing Co., 1993.

Cooper, J. *Logistics and distribution planning : strategies for management*. 2nd Ed. London : Kogan Page, 1994. Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun16317647>>. Available at Worldcat: <<http://www.worldcat.org/oclc/31239238>>

Luraschi, N.H. *Diagnóstico del transporte internacional y su infraestructura en América del Sur (DITIAS) transporte carretero (Mercosur y Chile)* [online]. Montevideo, Uruguay: ALADI, 2000. Available at: <<http://bit.ly/1UGqvdB>>
Argentina. Dirección nacional de cuentas internacionales (DNCI), Ministerio de Economía [online]. Available at: <<http://bit.ly/28NKJNC>>

España. Ministerio de Fomento. *Plataformas logísticas y centros de transporte de mercancías en España: una visión de la situación actual y propuestas de intervención*, 1999.

Morris, M. A. *North-South perspective on maritime policy* [online]. London: Westview Special Studies, 1988. ISBN: 9780813374284. Restricted access : <<http://bit.ly/28KdrgF>>
Muller, G. *Intermodal freight transportation*. Lansdowne : Eno Transportation Foundation; Greenbelt, Md. : Intermodal Association of North America, 1995. Available at Worldcat: <<http://www.worldcat.org/oclc/34653407>>

Naciones Unidas. *Cambios estructurales en los puertos y la competitividad del comercio exterior de América Latina y El Caribe* [online]. Santiago: CEPAL/ECLAC, ONU, 1991. Cuaderno 65. Available at: <<http://repositorio.cepal.org/handle/11362/27957>>

Pattillo, A. Economic and social effects of Chilean national port legislation. In: *IV National Transport Engineering Congress*. Valparaiso, 1989.

Pattillo,A. *The port administration in Latin America*, notes from the school of transportation of the Catholic University, Valparaiso, 1990.

Pattillo, A. *Port planification in Chile*. National naval engineering congress, 1992.

Pérez, G. *Seguridad de la cadena logística terrestre en América Latina* [online]. Santiago de Chile: CEPAL, 2013. (Serie recursos naturales e infraestructura, 161). Available at: <<http://bit.ly/28WINAK>>

Perrotti, D. E.; Sánchez, R. J. *La brecha de infraestructura en América Latina y el Caribe* [online]. Santiago de Chile: CEPAL, 2011. (Serie Recursos Naturales e Infraestructura, 153). Available at: <<http://www19.iadb.org/intal/intalcdi/PE/2011/09214.pdf>>

Rodriguez, M. E. *Zona de actividades logísticas (ZAL)* [online] : *un desafío para Rosario*. Rosario: Instituto Regional de Trabajo, 2000. (Serie Documentos de Trabajo, 18). Available at: <<http://bit.ly/28MMhsl>>

Ruibal, A. *Gestión logística de la distribución física internacional*. Colombia: Editorial Norma, 1994.

Sánchez, R.; Cipoletta, G. *Identificación de obstáculos al transporte terrestre internacional de cargas en el Mercosur* [online]. Santiago de Chile: CEPAL, 2003. (Serie Recursos Naturales e Infraestructura, 54). Available at: <<http://repositorio.cepal.org/handle/11362/6423>>

Ingenieros y Economistas Consultores SA. *Análisis y desarrollo evaluación sistema de transporte interurbano* [online] : *VII Etapa. ESTRASUR*. Chile: Secretaría ejecutiva de la comisión de planificación de inversiones en infraestructura de Transporte, Ministerio de planificación, 1999. Available at: <<http://bit.ly/1UAYddl>>

Ingenieros y Economistas Consultores SA. *Censo encuesta origen destino de pasajeros y carga Macrozona Centro-Norte* [online] : *II etapa*. Chile: Secretaría ejecutiva de la

comisión de planificación de inversiones en infraestructura de Transporte, Ministerio de Planificación, 2000. Available at: <<http://bit.ly/1YulkMN>>

Sprout, R. The ideas of Prebisch [online]= Prebisch's Thoughts. In: *CEPAL Review*, No 46, Santiago, Chile: CEPAL, 1992. Available at: <<http://bit.ly/28QhZ7o>>

Stutchey, R. *Port management textbook*. Bremen : Institute of Shipping Economics and Logistics, 1990-1993, Vol. 2. Available at Worldcat: <<http://www.worldcat.org/oclc/34500487>>

The international common-carrier transportation industry and the competitiveness of the foreign trade of the countries of Latin-America and The Caribbean [online]. Santiago: ECLAC, UN, 1989. (Booklet, 64). Available at <<http://hdl.handle.net/11176/358024>>

The port administration in Latin America, notes from the school of transportation of the Catholic University, Valparaiso, 1990.

Valdivieso, S.; Gálvez, E. *Chile en la cuenca del Pacífico*. Santiago de Chile : Editorial Andrés Bello : Editorial Jurídica de Chile, [1989] Available at Worldcat: <<http://www.worldcat.org/oclc/21161164>>

SESSION 2: MARITIME EDUCATION AND TRAINING

Particularities of the maritime higher education system as part of the maritime transport engineering studies

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Albanian Maritime Administration. Albanian Regulation for Ship Inspection. Durre : AMA, 2009.

Barsan, E. ; Feiza Memet, L. S. Particularities of the maritime higher education system as part of the maritime transport engineering studies. In: *WSEAS. Proceedings of the 7th WSEAS international conference on engineering education* [online]. Corfú : WSEAS, 2010, p. 168-173. ISSN: 978-960-474-202-8, ISSN: 1792-426X. Available at: <<http://bit.ly/28KQnmc>>

Dukaj, A. Developing an effective maritime education and training system. In: *Proceedings of the 3d International Maritime Symposium*. Vlore: IMCI, 2015. p.58-46. ISBN: 978-9928-4108-2-5

EMSA. *Overview of the maritime administrations working with EMSA* [online] : candidate and potential candidate countries. Albania: European Maritime Safety Agency, 2016. Available at: <<http://bit.ly/1UjfrMA>>

Lapa, K. Transformative challenges of dnme and dns through the initiatives of amici herd maritime project 2014-2015. In: Proceedings of the 3d International Maritime Symposium. Vlore: IMCI, 2015. p. 102-107. ISBN: 978-9928-4108-2-5

Maritime education and training : a practical guide. London : The Nautical Institute, 1997. p. 332, ISBN 1870077415. Available at UPC: <http://upc.cbuc.cat/record=b1184907~S1*cat>

Scientific and pedagogical support of distance maritime education

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Fayvisovich, A. ; Makashina, I. ; Truschenko I. Joint educational programs within the frame of BSAMI : condition, problems, prospects. In: *International Scientific Conference Science and technology for sustainable maritime development. Conference proceedings*. Varna : Nikola Vaptsarov Naval Academy, 2015, p. 37-40.

IMO. Sub-committee on standards of training and watchkeeping. In: *Comprehensive Review of the STCW Convention and the STCW Code* [online]: *Communication and leadership skills*. IMO, 31 October 2007. STW 39/7/3. Available at: <<http://www.sjofartsverket.se/pages/13770/39-7-3.pdf>>

Makashina, I. I. ; Malinochka E. G. *Situational and functional approach in training of marine managers*. Krasnodar: Kuban State University, 2007.

Makashina, I. I. Cooperation Projects as a way of further BSAMI development In: *International Scientific Conference Science and technology for sustainable maritime development. Conference proceedings*. Varna : Nikola Vaptsarov Naval Academy, 2015, p. 47-54

Makashina, I. I. *Poly-profile training of managers for merchant shipping*. Saarbrücken: AV Akademikerverlag GmbH , 2012.

Marichev, I. *Systemic arrangement of the educational space*. Novorossiysk: Admiral Ushakov State University, 2013.

Marichev, I. V. Cooperation Projects in Maritime Education: Looking ahead. In: *15th IAMU Annual General Assembly*. Tasmania: Australian Maritime College, 2014, p. 402-406.

Additional met programs for the masters on board lng carriers

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Chevron [online]. San Ramon, CA: Chevron, 2011-2016. Available at: [<https://www.chevron.com/>](https://www.chevron.com/)

Daedal Research. *Global LNG Fleet Market* [online]: *trends and opportunities (2015-2019)*. November 2015. September 2015 edition available at: [<http://bit.ly/28OA7NT>](http://bit.ly/28OA7NT)

Golar LNG [online]. Hamilton : Golar LNG, 2016. Available at: [<http://www.golarlng.com/>](http://www.golarlng.com/)

Höegh LNG [online]. Oslo : HÖEGH LNG AS, 2014. Available at: [<http://www.hoeghlng.com/>](http://www.hoeghlng.com/)

IHS. *LNG Strategic Research & Forecast Service (LNG-SRF)*. LNG Shipping Report, 2 December 2015.

IMO Maritime Safety Committee. *Report of the Maritime Safety Committee on its ninety-fourth session* : MSC 94/WP-1. London: IMO. MSC, 26 November 2014. Draft report available at: [<http://bit.ly/1tbFks3>](http://bit.ly/1tbFks3)

IMO. *International Code for Ships Operating in Polar Waters : Polar Code*. [London] : IMO, May 2015. Available at: [<http://bit.ly/1X6dvuk>](http://bit.ly/1X6dvuk)

IMO. *International Convention on Standards of Training, Certification and Watchkeeping for Seafarers* [online] : *STCW, 1978*. London : International Maritime Organization, 1978. Available only to UPC users: [<https://cataleg.upc.edu/record=b1472503~S1*cat>](https://cataleg.upc.edu/record=b1472503~S1*cat)
2009 edition available at UPC: [<http://cataleg.upc.edu/record=b1265122~S1*cat>](http://cataleg.upc.edu/record=b1265122~S1*cat)

MOL [online] : *Mitsui O.S.K lines. MOS*, 1997-2016. Available at: [<http://www.mol.co.jp/en/>](http://www.mol.co.jp/en/)

Perčić, U. *Obrazovanje pomoraca za djelovanje u izvanrednim okolnostima : magistarski rad*. Rijeka: Pomorski fakultet u Rijeci, 2006. Summary available at: [<http://www.pfri.uniri.hr/knjiznica/documents/MR-16.pdf>](http://www.pfri.uniri.hr/knjiznica/documents/MR-16.pdf). Dissertation Pomorski fakultet u Rijeci.

Pritchard, B. *Međunarodna istraživanja u području obrazovanja pomoraca* [online]. Rijeka: Pomorski fakultet u Rijeci, 2010. Available at: [<http://bit.ly/24sJHKp>](http://bit.ly/24sJHKp)

Shell Global [online]. The Hague: Shell headquarters, [201?]. Available at: <<http://www.shell.com/>>

Ship management. In: *PRONAV* [online]. Hamburg: Pronav, [201?]. Available at: <<http://www.pronav.com/ship-management/>>

Simpson Spence Young. *Market Commentary* [online]. April 2014. Restricted access: <<http://www.ssyonline.com/>>

TK [online]: *Teekay*. Teekay Corporation, 2015. Available at: <<http://teekay.com/>>

Unicom Management Services (Cyprus) [online]. Neapolis: Unicom management Services, [201?]. Available at: <<http://www.unicom-cy.com/>>

Use of the simulator as a training tool for the marine.

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Card, James C. [et al.]. Human factors in classification and certification. In: *ABS technical reports [online]*. American Bureau of Shipping, 2005, p. 127-137. Available at: <<http://bit.ly/25Iz6Bd>>

Harrald, J. R. [et al.]. Using system simulation to model the impact of human error in a maritime system. In: *Safety Science* [online]. Pergamon, 1998, Vol. 30, No. 1-2, p. 235-247. ISSN: 0925-7535. Available at: <<http://bit.ly/1tbSzcm>>

IMO. *Code on alarms and indicators* [online] : resolution A.830 (19). [London]: International Maritime Organization, 23 November 1995. Available at: <<http://www.sjofartsverket.se/pages/5121/830.pdf>> Available only to UPC users: <https://cataleg.upc.edu/record=b1472503~S1*cat>

IMO. *Fatigue as a contributory factor in marine accidents* [online]: MSC/Circ.565. [London]: International Maritime Organization, [199?]. Available only to UPC users: <https://cataleg.upc.edu/record=b1472503~S1*cat>

IMO. *Fatigue. Groundings and collisions* : MSC 69/INF.15. [London]: International Maritime Organization, [199?].

IMO. *Guidelines on ergonomic criteria for bridge equipment and layout* [online]: MSC/Circ. 982. [London]: International Maritime Organization, 20 December 2000. 20 December 2000. Available at: <<http://bit.ly/1TRo4P9>>

IMO. *Human error on the bridge : a study of finnish shipping : MSC 68/INF.15*. [London]: International Maritime Organization, [199?].

IMO. *Principles of minimum safe manning* [online]: resolution A.1047 (27). [London]: International Maritime Organization, 30 November 2011. Available only to UPC users: <https://cataleg.upc.edu/record=b1472503~S1*cat>. Resolution A-1047, 20 December 2011 available at: <<http://bit.ly/1t18OrX>>

IMO. Statistics on total losses of ships of 100 GT and above and losses of lives as a consequence to the total losses. In: *Casualty Statistics and Investigations* [online]: very serious and serious casualties for the year 2003 : FSI.3/Circ. [London]: International Maritime Organization, 23 February 2005. Annex 2, p. 29. Available at: <<http://bit.ly/1YaPSD6>>

IMO. *Guidance on fatigue mitigation and management* [online]: MSC/Circ.1014. London: International Maritime Organization, 12 June 2001. Available at:<<http://bit.ly/25XjWbb>>

Thoma, Jeffrey [et al.]. Application of human factors engineering in reducing human error in existing offshore systems. In: *2nd International workshop on human factors in offshore operations* [online]: HFW2002. League City: RRS Engineering, 2002. Working grup 3, p. 480-518. Available at: <<http://1.usa.gov/1PefvM9>>

SESSION 3: HUMAN ELEMENT

Application of the ism code on passenger ships and impact on the loss of human lives at sea over the past 35 years.

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Density of maritime traffic [online]. Marine Traffic, 2014. Available at: <<http://www.marinetraffic.com/en/p/density-maps>>

Mansell, J. *Flag State Responsibility : Historical Development and Contemporary Issues* [online]. USA: Springer, 2009. Available only for UPC users: <http://cataleg.upc.edu/record=b1461570~S1*cat>

Restricted access: <<http://link.springer.com/book/10.1007%2F978-3-540-92933-8>>

Mérida Galindo Medina, L. *Código Internacional de Gestión de la Seguridad (Código IGS)/(ISM Code)* [online]. Venezuela: Marygerencia, 2014. Available at: <<http://bit.ly/1Pn1rFF>>

Sheen, J. *MV Herald of Free Enterprise* [online] : *Report of Court N° 8074 Formal Investigation*. London : Department of Transport, 1987. ISBN: 0115508287. Available at: <<http://bit.ly/1UwsCN0>>

Ugarte Miguel, C. *La seguridad en el trabajo a bordo de los buques mercantes* [online]: *análisis de los accidentes laborales y propuestas para su reducción*. Cantabria : UC, 2013. Available at: <<http://bit.ly/1UwtHnY>>

Zamora Terres, J. Las lecciones del "Erika" In: *El País Cataluña* [online] : *Tribuna*. [Barcelona] : El País, 19 de enero de 2000-. Available at: <<http://bit.ly/28KM6eX>>

On cross cultural communication in a mixed crew

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Baltic and International Maritime Council. *BIMCO/ISF. Manpower 2010 Update* [online] : *the world demand for and supply of seafarers*. Bagsværd : Bimco, 2010. Available at Worldcat: <<http://www.worldcat.org/oclc/847378369>>
Available at: <<http://bit.ly/1VyUnXv>> (2015 update)>

David Crystal. *The language revolution*. [online]. Cambridge: Polity Press, 2004. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b3350409~S23*cat>

Laxmi Chaudhry. *Cultural understanding is key to new crewing challenges* [online]. Lloyd's List. 2005. Available at: <<http://bit.ly/1Uwv2et>>

Manning 2010/11. *Drewry Publishing*. London, 5 November 2010, p. 56.

Manpower 2010 Update: The world demand for and supply of seafarers// BIMCO/ISF. – 2010. – 117 p.

National authorities maintaining registers of certificates and endorsements. London: IMO. Available at: <<http://bit.ly/1XSo1aq>>

Sag O. The Impact of the Black Sea Maritime Cluster on the Global Shipping Industry.. In: *14th European Manning & Training Conference*. Istanbul: The nautical Institut, May 12-13, 2011.

Sag O. *Turkish Maritime Education and Solution Recommendations*. Denizden. 2010, no. 3, p. 84-110.

UNCTAD secretariat. *Review of Maritime Transport 2010*. [online]. New York and Geneva: UN, 2010. Available at: <http://unctad.org/en/docs/rmt2010_en.pdf>

UNCTAD secretariat. *Review of Maritime Transport 2012*. [online]. New York and Geneva: UN, 2012. Available at: <http://unctad.org/en/PublicationsLibrary/rmt2012_en.pdf>

V.F. Tenischeva, L.B. Fishkova. *The Basics Of Business Etiquette: Linguistic and Psychological Training in English*. Novorossiysk: Admiral Ushakov University Press, 2007

Methods of developing intercultural competence in maritime english teaching

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Alvino E. Fantini. *A Central Concern: Developing Intercultural Competence*. [online]. Available at: <<http://bit.ly/25CAmpa>>

Bardilovskaya S.A.; Pakhirko V.V. *Intercultural Competence Building*. In: Management in Social and Economic Systems: XXIII International Scientific-Practical Conference, Minsk, 15 May 2014 – Minsk, 2014. p.195-196.

Dokuto B.B.; Dubovsky U.A.; Pereyashkina L.N. *Basics of Effective Communication*. Pyatigorsk: Pyatigorsk University Press, 2013.

Fayvisovich A. ; Makashina I. ;Truschenko I. *Joint Educational Programs within the Frame of BSAMI: conditions, problems, prospects*. In: Science and Technology for Sustainable Maritime Development: International Scientific Conference, Varna, 13-14 May 2015. Varna, 2015 p. 37-40.

Kurkina A.U. *Methods of intercultural competence developing in teaching foreign cultures' modern press discourse*. Moscow: Moscow State Linguistic University, 2015.

Malkhanova, I.A. *Communicative Training*. Moscow.:Akademichesky Project, 2006.

Pugachov V.P. *Tests, Role plays, Trainings in Personnel Management*. Moscow : Aspekt Press, 2001.

Sinitsina, U.A. *Intercultural Communicative Competence: Requirements for Level of Possession and Some Ways of its Formation//Foreign Languages at school*. 2002.

Tenischeva V.F., Fishkova L.B. *Basics of Business Etiquette. Linguistic and Psychological trainings in English*. Novorossyisk: Admiral Ushakov University Press, 2007.

Ter-Minasova S. G. *Language and Intercultural Communication*. Moscow : Slovo, 2000.

Wiseman, R.L. *Intercultural communication competence*. Newbury Park, Calif. : Sage, 1993.

Available at Worldcat: <<http://www.worldcat.org/oclc/27732352>>

Working conditions on maritime transport: comparative survey between Galician professionals and Spanish shipping companies.

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BIMCO/ISF. *BIMCO/ISF manpower 2010 update. The worldwide demand for and supply of seafarers*. [online]. Coventry: Warwick Institute For Employment Research, 2010. Available at Worldcat: <<http://www.worldcat.org/oclc/847378369>>.

Mason T. *Go to sea! A Campaign to attract entrants to the shipping industry. Opening Remarks*. [online]. London: International chamber of shipping/International Shipping Federation, 2008. Available at: <<http://bit.ly/1Y4ile3>>.

International Maritime Organization. *Go to sea! A Campaign to attract entrants to the shipping industry*. [online]. Campaign document,2008. London: IMO, 2012. Available at: <<http://bit.ly/1Uj5Hli>>

COM (European Commission). *Comunicación de la Comisión al Consejo, al Parlamento Europeo, al Comité Económico y Social Europeo y al Comité de las Regiones. Reevaluación de la normativa social con vistas a más y mejores puestos de trabajo en el sector marítimo en la UE*. [online]. Bruselas: EC, 2007. Available at:<<http://bit.ly/1Uj5MW8>>

COM (European Commission). *Comunicación de la Comisión al Consejo, al Parlamento Europeo, al Comité Económico y Social Europeo y al Comité de las Regiones. Objetivos estratégicos y recomendaciones para la política de transporte marítimo de la UE hasta 2018*. [online]. Bruselas : EC, 2009. Available at: <<http://bit.ly/1t3wQTL>>

ETF (European Transport Workers Federation). *How to enhance training and recruitment in the shipping industry in Europe- Final report*. Brussels, 2010. Available at: <<https://www.nautilusint.org/media/169258/ETF-Recruitment-report.pdf>>

ECSA (European Community Shipowners Association). *Report on the Project on Enhancing Recruitment and training in the maritime sector in Europe*. Brussels: ECSA, 2010. Available draft at: <<https://www.nautilusint.org/.../ETF-Recruitment-report.pdf>>

Basurko A. *El futuro de la profesión náutica*. [online]. *Problemática, consecuencias y posibles soluciones a la actual escasez de jóvenes profesionales*. In: XXI Jornadas de la Gente de Mar, Barcelona, 2007.

De la Campa Portela R., [et al.]. On board labour conditions and Spanish seafarers shortfall : the Galician seafarers experience. In: *6th International Congress on Maritime Transport Technological Innovations and Research*. Barcelona : UPC, 2014, p. 88-109. Available at UPC: https://cataleg.upc.edu/record=b1477439~S1*cat. Presentation available: <<http://bit.ly/28LBLCE>>

España. Servicio Público de Empleo Estatal. *Catálogo de Ocupaciones de Difícil Cobertura 2016*. [online]. Madrid: SEPE. Available at: <<http://bit.ly/1Pu61hB>>.

Kahaveci, E. *Port based welfare services for seafarers*. [online]. Cardiff: Seafarers International Research Centre, 2007. Available at: <<http://www.itfseafarers.org/files/seealsodocs/4423/WelfareReportI.pdf>>

Development of modern and harmonized training of seafarers

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Castells M. [et al.]. Modernizing and Harmonizing Maritime Education in Montenegro and Albania. Mared Project. In: *Proceedings 16th IAMU Annual General Assembly 2015*. Croatia: University of Rijeka, 2015. Available at UPC: <http://cataleg.upc.edu/record=b1467216~S1*cat>.

Đivo Bašić. Dubrovačka Nautika - Pomorska škola u Dubrovniku od 1852. godine (U povodu Noći muzeja, 31. siječnja 2014). In: *Pomorski zbornik*. [online]. 2015, Vol. 49-50, no. 1. p. 333-377. Restricted access: <http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=203764>

European Union. Directive 2008/106/EC of the European Parliament and of the Council of 19 November 2008 on the Minimum level of Training of Seafarers. In: *Official Journal of the European Union* [online]. 2008. Available at: <<http://bit.ly/24tCSbB>>

IMO (International Maritime Organization). *IMO Model Course 1.22, Ship simulator and bridge teamwork*, 2002 Edition. London: International Maritime Organization, 2002. Available at UPC: <http://cataleg.upc.edu/record=b1276265~S1*cat>

IMO (International Maritime Organization). *IMO Model Course 3.12, Assessment examination and certification of seafarers*. Revised ed. London: International Maritime Organization, 2000. Available at UPC: <http://cataleg.upc.edu/record=b1265431~S1*cat>.

IMO (International Maritime Organization). *IMO Model Course 6.10 Train the simulator trainer and assessor*. London: International Maritime Organization, 2012. Available at: <<http://bit.ly/1WCYN0M>>

IMO (International Maritime Organization). *International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, (STCW) 1978, as amended in 1995/2010*. [online]. London: International Maritime Organization, 2010. Available at: <<http://bit.ly/1t4FS2n>>

Marinov E, Maglic L, Buksa J. Market competitiveness of Croatian seafarers. In: *Scientific Journal of Maritime Research* [online], 2015, 29, p 64-68. Available at: <<http://hrcak.srce.hr/file/206967>>

Perkovic, M. [et al.]. First Results from Practical Usage of Complex Maritime System Simulator Centre in Connection with Real Equipment. In: *Proceedings Marsim 2006*. Terschelling: Maritime Institute Willem Barentsz (MIWB), 2006..p S34. Available at Worldcat: <http://www.worldcat.org/search?qt=worldcat_org_all&q=marsim+2006>

The Telegraph. *Sea no evil: the life of a modern sailor* [online], 25 January 2011. Available at: <<http://bit.ly/28LKS20>>

Transas. *Company profile website*. Available at: < <http://www.transas.com/>>

University of Ljubljana Faculty of Maritime Studies and Transport. *Marine Simulators at University of Ljubljana Faculty of Maritime Studies and Transport*. [online] : *brief overview of available simulators and courses*. Available at: <<http://www.fpp.uni-lj.si/studij/tecaji/>>

University of Montenegro. *Intermediate report on implementation of the project (IR), statement of the costs incurred and request for payment, TEMPUS IV (Sixth Call for proposals EACEA No. 35/2012), Joint Project / Structural Measure, 544257-TEMPUS-1-2013-1-ME-TEMPUS-JPCR/2013-4538/001-001*. Podgorica, Montenegro: University of Montenegro, 2015.

SESSION 4: SHIPPING NAVIGATION AND ROUTING

Technical and economic analysis between diesel and dual-fuel propulsion engine

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Argus Media, Global LNG. Gorgon expansion output on offer. In: *Augus Global LNG* [online] : *LNG markets, projects and infrastructure*, Vol.10, No. 4, April 2014, 28 p. ISSN: 1746-4005. Available at: <<http://bit.ly/1ULbOSw>>

Gillert, G. *Dual-fuel engine Fuel System*, 2014.

Henneke Rambow : new German container vessel. In: *Ships and shipping* [online]. Victoria: Bird publications, April 2007, p. Available at: <<http://s7d2.scene7.com/is/content/Caterpillar/C10709784>>

Henneke Rambow. In: *Ship dreams.de* [online] : *gallery*. [2011]. Available at: <<http://bit.ly/234jnHB>>

IMO. *Third IMO Greenhouse Gas Study 2014* [online]. London: International Maritime Organization, 2015. Available at: <<http://bit.ly/1OkLdN3>>

IMO. Marine Environment Protection Committee meets for 66th session. [online]. 26 March 2014. Available at: <<http://bit.ly/1sBz7F9>>

Jafari, H. H, Farhanieh, B. *Thermodynamic analysis of replacing gas oil with natural gas in diesel engine* [online]. [2009]. 12 p. Available at: <<http://www.hsiran.com/cng/2nd/fa/pdf/51.pdf>>

MaK. *M 43 C* [online] : *project guide : propulsion*. Kiel : Caterpillar Motoren GmbH, 2012. 96 p. Available at: <<http://s7d2.scene7.com/is/content/Caterpillar/C10709784>>

MaK. *M 46 DF* [online] : *project guide : generator set*. Kiel : Caterpillar Motoren GmbH, 2015 157 p. Available at: <<http://s7d2.scene7.com/is/content/Caterpillar/C10859845>>

Marime Service GmbH. *LNG fuel tank container for ships* [online] : *technical specification*. Buerstadt: Ziemann International GmbH, Datasheet LNG-TC Z+B/MS_14300156-R-4, 31.08.2012. Available at: <<http://bit.ly/1YlhYeO>>

Netpas [online] : *[for your Smart Maritime Business]*. Seoul: Seafuture, 2016. Available at: <<https://www.netpas.net/>>

VHSS. *HAMBURG INDEX* [online] : *containership T/C-Rates results 2009-2016*. Available at: <<http://bit.ly/1XiPG5n>>

Wuersig, Gerd. *Current price development oil and gas* [online]. DNV GL, 9 dec. 2015. 7p. Available at: <<http://bit.ly/1ZKoniD>>

Cleaning of hydrographic data for determination of the waterways' seabed

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Czaplewski, K. ; Nitner, H. Zabezpieczenie nawigacyjno hydrograficzne dla potrzeb Marynarki Wojennej RP. In: *Zeszyty naukowe akademii marynarki wojennej* [online] 2010, vol. 3, no. 182, p. 7-18. Available at:

<http://www.amw.gdynia.pl/library/File/ZN%202010/Czaplewski_Nitner_1.pdf>

IHO Standards for Hydrographic Surveys [online] : S-44. 5th. Ed. Monaco: International Hydrographic Bureau, 2008, special publication No. 44, 28 p. Available at: <https://www.iho.int/iho_pubs/standard/S-44_5E.pdf>

International Hydrographic Organization. *Manual on Hydrography* [online] : *publication C-13*. 1st Edition (Corrections to February 2011). Monaco: IHO, 2011. Available at: <<http://bit.ly/1ttFjjs>>

Kopacz, Z. ; Morgaś, W. ; Urbański, J. The Maritime Safety System: its Components and Elements. In: *The Journal of Navigation* [online]. Cambridge: The Royal Institute of Navigation, 2001, vol. 54, No. 2, p. 199-211. ISBN: 1469- 7785 (online). ISBN 0373-4633 (print). Available at UPC: https://cataleg.upc.edu/record=b1246503~S1*cat (online) https://cataleg.upc.edu/record=b1062416~S1*cat (print)

Liedtke, W. *Filtering the bathymetric data obtained using a multibeam echosounder: Engineering dissertation*. Gdynia: Polish Naval Academy, 2015. Dissertation Polish Naval Academy.

QINSy. *Quick start* [online] : *a total hydrographic solution*. Zeist: Quality Positioning Services, 2006. 140 p. Available at: <<http://bit.ly/236LQwi>>

Quick Start QCloud. *Data Editing Tool*: Zeist : Quality Positioning Services, 2006.

Ruuben, T. ; Derkats, J. Some Methods of Signal Processing and Beamforming in Hydrographic Applications. In: *Elektronika ir elektrotechnika* [online] = *Elektronika ir Elektrotechnika*. Kaunas: Technologija, 2008, Vol. 86, No. 6, p. 27-32. ISSN: 1392-1215. Available at: <<http://www.eejournal.ktu.lt/index.php/elt/article/view/11178/5914>>

Towards new technology in valve maintenance

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EPRI. *EPRI MOV Performance Prediction Program* [online]. *Topical Report, Revision 1 (Non-Proprietary Version)*. Alexandria, Virginia: MPR associates, November 1995, 578 p. TR-103237-R1-T1. Available at: <<http://bit.ly/1Ux14V5>>

Gate and Glove Valves. In: *Application Guide for Motor-Operated Valves (MOV) in Nuclear Power Plants : revisión 1*. Palo Alt: EPRI, 1999, Vol. 1. TR-106563-V1.

Limitorque. In: *Flowserve* [online]. Flowserve Corporation, 2013. Available at:<<http://www.flowserve.com/Limitorque>>

NRC. *Clarification of TMI Action Plan Requirements* [online] : *NUREG-0737 : final report*. Washington: NRC, November 1980. Available at:<<http://1.usa.gov/21jLf2>>

NRC. *Periodic verification of design-basis capability of safety-related motor-operated valves* [online] : *generic letter 96-05*. Washington: NRC, 1996. GL96-05. Available at:<<http://1.usa.gov/25UDMUG>>

NRC. *Safety-related motor-operated valve testing and surveillance results of the public workshops* [online] : *generic letter 89-10* . Washington : NRC, 1989. GL89-10. Available at: <<http://1.usa.gov/1Yp73kt>>

Paper condition monitoring : QUG III. In: *Teledyne*. Thousand Oaks: Teledyne technologies, 2008.

SMARTSTEM. In: *Teledyne technologies* [online]. Thousand Oaks: Teledyne technologies, 2016. Available at:< <http://teledyne-ts.com/products/smartstem.html>>

SMB Electric Actuators. In: *Flowserve* [online]. Flowserve Corporation, 2013. Available at: <<http://bit.ly/1YnVREH>>

Solutions for nuclear industry. In: *Crane* [online]. Stamford: Crane, 2015. Available at:<<http://bit.ly/1VWVZur>>

10 CFR 50 [online] *Appendix B to Part 50 Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants*. Washington: NRC, 02/12/2015. Available at:<<http://1.usa.gov/1YnTA4>>

Valve Testing Products & Services. In: *Teledyne technologies* [online]. Thousand Oaks: Teledyne technologies, 2016. Available at:<<http://teledyne-ts.com/valvetest.html>>

Ship routing applied at short sea distances

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Bowditch, N. *The american practical navigator* [online] : an epitome of navigation. Bicentennial edition. Maryland: National Imagery and Mapping Agency, 2002, 879 p. Available at: <<ftp://ftp.flaterco.com/xtide/Bowditch.pdf>>

Cavaleri, L. [et al.]. Wave modelling : the state of the art. In: *Progress in Oceanography* [online]. Oxford, New York, Pergamon Press, Vol. 75, No. 4, 2007, p. 603-674. ISBN: 0079-6611. Available at: <<http://bit.ly/1Us8htM>>

Dijkstra, E.W. A note on two problems in connexion with graphs. In: *Numerische Mathematik* [online]. Heidelberg : Springer, Vol.1, 1959, p.269–271. 0945-3245 (Online) ISSN: 0029-599X (Print). Available at: <<http://bit.ly/25ZRT06>>

Grifoll, M. [et al.]. Ocean-atmosphere-wave characterization of a wind jet (Ebro shelf, NW Mediterranean Sea) In: *Nonlinear Processes Geophys Discuss* [online]. 2016. Available at: <<http://www.nonlin-processes-geophys-discuss.net/npg-2016-8/npg-2016-8.pdf>> Manuscript under review for journal.

Hinnenthal , J. *Robust Pareto Optimum Routing of Ships utilizing Deterministic and Ensemble Weather Forecasts* [online]. Berlin: Technischen Universität Berlin, 2008 Available at: <<http://bit.ly/1TZwO96>> Dissertation Technischen Universität Berlin.

Hu, Q. [et al.]. An Algorithm for Interpolating Ship Motion Vectors. In: *TransNav* [online] : *the International Journal on Marine Navigation and Safety of Sea Transportatio*. Gdynia: TransNav Publishing House, 2014, Vol. 8, No. 1, p. 35-40. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/1YpflJ9>>

Larsson, E. ; Simonsen, M.H. *DIRECT weather routing* [online] : Master's thesis. Gothenburg: Department of Shipping and Marine Technology, Chalmers University of Technology, 2014. Available at: <<http://bit.ly/1sE01fE>> Dissertation Chalmers University of Technology.

Mannarini, G. [et al.]. A Prototype of Ship Routing Decision Support System for an Operational Oceanographic Service. In: *TransNav* [online] : *the International Journal on Marine Navigation and Safety of Sea Transportation*. Gdynia: TransNav Publishing House, 2013, Vol. 7, No. 1, p. 53-59. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/1UNbD9n>>

Montes, A. *Network shortest path application for optimum track ship routing* [online] : [PhD-Thesis]. Monterey: Naval Postgraduate School, 2005. Available at: <<http://hdl.handle.net/10945/1895>> Dissertation Naval Postgraduate School, Montserey

Simonsen, M.H. [et al.]. State-of-art within ship routing. In: ASME. *34th International Conference on Ocean, Offshore and Arctic Engineering* [online]. ASME, 2015. ISBN 978-0-7918-5649-9. Restricted access: <<http://bit.ly/1ZNAeMS>> (online). Available at Worldcat: <<http://www.worldcat.org/oclc/937531054>> (print)

Szłapczyńska, J. ; Śmierzchalski, R. Multicriteria Optimisation in Weather Routing. In: *TransNav* [online] : *the International Journal on Marine Navigation and Safety of Sea Transportation*. Gdynia: TransNav Publishing House, 2009, Vol. 3, No. 4, p. 393-400. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/21jMa9p>>

Takashima, K. ; Mezaoui, B ; Shoji, R. On the Fuel Saving Operation for Coastal Merchant Ships using Weather Routing In: *TransNav* [online] : *the International Journal*

on Marine Navigation and Safety of Sea Transportation. Gdynia: TransNav Publishing House, 2009, Vol. 3, No. 4, p. 401-406. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/1ttRCvX>>

Partial structural analysis of the ecdis eho research: the safety contour

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Beamer [online] : Bureau d'enquêtes sur les événements de mer. La Defense Cedex: Beamer, 2016. Available at: <<http://bit.ly/24O6iRY>>

Brčić, D. ; Kos, S. ; Žuškin, S. Navigation with ECDIS : choosing the proper secondary positioning source. In: TransNav [online] : the International Journal on Marine Navigation and Safety of Sea Transportatio. Gdynia: TransNav Publishing House, 2015, Vol. 9, No. 3, p. 317-326. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/1UhuObt>>

Draft Guidelines on Under Keel Clearance [online] : HELCOM SAFE NAV 5-2014. Copenhagen: Group of Experts on Safety of Navigation, Baltic Marine Environment Protection Commission, 3 December 2014. Available at: <<http://bit.ly/25XftFo>>

ECDIS User Manual : multi-functional display. Version 2.00.320. Transas MIP Ltd, 2012.

HELCOM Group of Experts on Safety of Navigation. Outcome of the fourth meeting of group of experts on safety of navigation [online] : HELCOM Safe Nav 4/2014 : Helsinki, Finland, 4 February 2014 . 11 p. Paragraphs 3.16 : draft recommendation on Under Keel Clearance. Available at: <<http://bit.ly/1Xn27Nu>>

Hewlett, C. [et al]. Dynamic squat and under-keel clearance of ships in confined channels. In: 30th PIANC-AIPCN Congress [online] : Sydney, 2002. N.S.W.: Institution of Engineers, 2002. Restricted acces: <<http://bit.ly/1Usb46d>> Available at Worldcat: <<http://www.worldcat.org/oclc/223386012>>

International Hydrographic Organization. Facts about Electronic Charts and Carriage Requirements [online] : S-66. Edition 1.0.0. Monaco: International Hydro-graphic Bureau, 2010. Available at:<<http://bit.ly/1QgIDb8>>

International Hydrographic Organization. IHO transfer standard for digital hydrographic data [online] : S-57. Edition 3.1. Monaco: International Hydro-graphic Bureau, 2002. Available at:<https://www.iho.int/iho_pubs/standard/S-57Ed3.1/31Main.pdf>

International Hydrographic Organization. IHO transfer standard for digital hydrographic data [online] : enhancements required to encode S-57. Edition 3.1.2. ENC Data : suplent 2. Monaco: International Hydro-graphic Bureau, 2002. Supplement No. 32. Available at: <<http://bit.ly/1UhweT7>> (texts 2002 with corrections 2014)

International Hydrographic Organization. Specifications for chart content and display aspects of ECDIS [online] : S-52. Edition 6.0. Monaco: International Hydro-graphic Bureau, 2010. Available at: <<http://bit.ly/1Uxc1Gg>>

International Maritime Organization. Adoption of the revised performance standards for Electronic Chart Display and Information Systems (ECDIS) [online] : resolution MSC.232(82). London: IMO, 2006. Available at UPC: <https://cataleg.upc.edu/record=b1472503~S1*cat>

International Maritime Organization. Code on Alarms and Indicators : resolution 867(E). London: IMO , 1995.

International Maritime Organization. Guidelines for the presentation of navigation-related symbols, terms and abbreviations [online] : Ref. T2-OSS/2.7.1. London: IMO, 2000. SN/Circ.243, 15 December 2004. Available at:<<http://bit.ly/23788xP>>

International Maritime Organization. Guidelines for voyage planning [online] : resolution A.893(21). London: IMO, 2000. Assembly 21/RES.893, 4 February 2000. Available at:<<http://bit.ly/1PqUJsW>>

International Maritime Organization. International Convention for the Safety of Life at Sea (SOLAS) 1974, with amendments. London: IMO, 2011. Information: <<http://bit.ly/1PtgQ1J>>. Available at UPC: <https://cataleg.upc.edu/record=b1105456~S1*cat> (ed. 1986, ISBN:_9280112007)

International Maritime Organization. International Safety Management Code (ISM Code) with guidelines for its implementation. London: IMO, 2014. Information: <<http://bit.ly/1WNlaRk>> Available at UPC: <https://cataleg.upc.edu/record=b1374065~S1*cat> (ed. 2010)

International Maritime Organization. Operational use of Electronic Chart Display and Information System : Model Course 1.27. London, UK, 2010. Available at UPC: <https://cataleg.upc.edu/record=b1356699~S1*cat> (ed. 2000, ISBN 789280161120)

International Maritime Organization. Performance standards for electronic chart display and information systems (ECDIS) [online] : resolution A.817(19). London : IMO, 1995. Assembly 19/RES.817, 15 December 1996. Available at: <<http://bit.ly/25UQfaP>>

International Maritime Organization. Performance standards for the presentation of navigation-related information on shipborne navigational displays [online] : resolution MSC.191(79). London: IMO, 2004. Available at UPC: < https://cataleg.upc.edu/record=b1472503~S1*cat>

International Maritime Organization. Regulation 2/II : Mandatory minimum requirements for certification of officers in charge of a navigational watch on ships of 500 gross tonnage or more. In: International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) 1978 [online] : with Manila amendments 2010. London: IMO, 2011, Part A-II/1, p. 26. Available at: <<http://nus.edu/261RGRj>>

International Maritime Organization. Regulation 2/II : Mandatory minimum requirements for certification of masters and chief mates on ships of 500 gross tonnage or more. In: International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) 1978 [online] : with Manila amendments 2010. London: IMO, 2011, Part A-II/2, p. 26-27. Available at: <<http://nus.edu/261RGRj>>

Kos, S., Zorović, D. ; Vranić, D. Terestrička i elektronička navigacija. Rijeka: Pomorski fakultet Sveučilišta u Rijeci, 2010. ISBN: 978-953-165-095-3. Available at: <<http://bit.ly/1PtoSaY>>

Marine Accident Investigation Branch (MAIB) [online] : [homepage]. Available at: <<http://www.maib.gov.uk/>>

Marine Accident Investigation Branch. Report on the investigation of the grounding of Ovit in the Dover Strait on 18 September 2013 [online]. Southampton : MAIB, 2014. Accident Report 24/14. Available at: <<http://bit.ly/21m0ONI>>

Norris, A. ECDIS and positioning. London: The Nautical Institute, 2010. Available at Worldcat: <<http://www.worldcat.org/oclc/751462852>>

Pietrzykowski, Z. ; M. Wielgosz. Navigation Safety Assessment in the Restricted Area with the Use of ECDIS In: TransNav [online] : the International Journal on Marine Navigation and Safety of Sea Transportation. Gdynia: TransNav Publishing House, 2011, Vol. 5, No. 1, p. 29-35. ISSN 2083-6481 (online) ISSN 2083-6473 (print). Available at: <<http://bit.ly/1tvNDiA>>

Shannon, A. ECDIS The common problems. Singapore: Holman Fenwick Willan, [2012]

Website of the Federal Bureau of Maritime Casualty Investigation [online]. Available at: <<http://www.bsu-bund.de/EN>>

Weinrit, A. The Electronic Chart Display and Information System (ECDIS) : an operational handbook. Boca Raton : CRC Press, cop. 2009. ISBN 9780415482462. Available at UPC: <https://cataleg.upc.edu/record=b1364043~S1*cat>

Žuškin, S. ; D. Brčić, D. Šabalja. A contribution to improving the standards of ECDIS training. In: Pomorstvo [online] : Scientific Journal of Maritime Research. Rijeka : Pomorski fakultet, 2013, Vol. 27 No. 1, p. 131-148. ISSN: 1846-8438 (online) ISSN: 1332-0718 (print). Available at: <http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=153185>

Žuškin, S. ; M. Valčić ; I. Rudan. ECDIS System in Function of Sea Environment Protection. In: REACT 2011 : Shaping Climate Friendly Transport in Europe : proceedings. Belgrade: University of Belgrade, The Faculty of Transport and Traffic Engineering, 2011. ISBN: 978-86-7395-282-6. Available at: <<http://bit.ly/1Xp3pYk>>

SESSION 5 : MARITIME ENVIRONMENT AND ELECTRONICS AND HUMAN INTERFACE

Protection from pollution in inland navigation in the republic of serbia

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Changing face of tourism space in lower Danube: with funding from Austrian Development Cooperation [online]. Belgrade. Available at:
<http://www.npdjerdap.org/?page_id=778 >

Constitution of the Republic of Serbia. In: *Official Gazette RS, no.98/2006*. [online]. Available at: <<http://www.ustavni.sud.rs/page/view/en-GB/235-100028/constitution> >

Law on navigation and ports on inland waters. In: *Official Gazette RS, no.73/2010, 121/2012*.

Petrović, D. ; Tomić-Petrović N. *Physico-geographycal factors of Danube region in Serbia as predispositions of traffic and tourism development*, Belgrade, 2011

Rosić, S. *Plovidba unutrašnjim plovnim putevima* [online]. Beograd: Odbrana, 2010. Available at Worldcat: < <http://www.worldcat.org/oclc/772452748> >

Strategy of water transport development of the Republic of Serbia from 2015 to 2025. In: *Official Gazette RS“ no.3/15*.

Tomić-Petrović, N. Strategic Importance and Environmental Protection of the River Danube. In: *5th. International Conference on Maritime Transport 2012: Technological Innovations and Research, “Maritime transport V*. Ed. Francesc Xavier Martinez de Osés, Marcel la Castells i Sanabra. Barcelona: CEN, 2012. p. 522-529. Available at UPC:

<http://cataleg.upc.edu/record=b1412700~S1*cat>

Tomić-Petrović, N. Navigation on Danube and its pollution - Serbia's and international problem. In: *4th. International Conference Maritime transport 2009, Barcelona : Book of Proceedings : Maritime Transport IV*. Ed. Francesc Xavier Martinez de Osés, Marcel la Castells i Sanabra . Barcelona: CEN, 2009. p. 307-315. Available at UPC: <http://cataleg.upc.edu/record=b1346541~S1*cat>

Tomić-Petrović, N. Seamen training – history, reality and perspectives in Serbia. In: *6th. International Conference on Maritime Transport 2014, Barcelona: Book of Proceedings: Maritime Transport VI*. Ed. Francesc Xavier Martinez de Osés, Marcel la Castells i Sanabra. Barcelona: CEN, 2014. p. 311-317. Available at UPC: <http://cataleg.upc.edu/record=b1442312~S1*cat>

Vuckovic, Jovan. *Get active in unspoiled Serbia*. Belgrade: Tourism Organisation of Serbia, 2007.

Marine litter pollution from nautical tourism in the adriatic sea

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Barnes, D. K. A. et al. Accumulation and fragmentation of plastic debris in global environments. In: *Philosophical Transactions of the Royal Society B* [online]. London : Royal Society, 2009, Vol. 364, No. 1526. ISBN: [1471-2970](#) (online) ISBN: 0962-8436 (print). Available at: <<http://rstb.royalsocietypublishing.org/content/364/1526/1985>>

Blue Growth Strategy. EU, 2012.

Carić H. Direct pollution cost assessment of cruising tourism in the Croatia Adriatic. In: *Financial Theory and Practice* [online]. 2010, Vol. 34, No. 2, p. 171. Available at: <<http://hrcak.srce.hr/file/81725>>

Carić H. Cruising Tourism Environmental Impacts: Case Study of Dubrovnik, Croatia. In: *Journal of Coastal Research: Special Issue 61*. [online]. Management of Recreational Resources: 2011, p. 104-113. Restricted access: <<http://www.jcronline.org/doi/abs/10.2112/SI61-001.2>>

Cheshire, A. et al. *UNEP/IOC Guidelines on survey and monitoring of marine litter regional seas reports and studie* [online]. 2009.UNEP Regional Seas Reports and Studies, No. 186; IOC Technical Series, 83: xii + 120 p. Available at: <<http://bit.ly/1S3JNBh>>

Convention for the protection of the Mediterranean Sea against pollution. [online]. EU, 1976. Available at: <<http://bit.ly/1VX12v1>>

Croatian Bureau of Statistics . *Foreign vessels on cruise in the Republic of Croatia*. Zagreb, Edition (2005., 2006., 2007., 2008., 2009., 2010., 2011., 2012., 2013., 2014., 2015.). Available at: <<http://www.dzs.hr/>>

Directive 2008/56/EC of the European Parliament and of the Council of 17 June 2008 establishing a framework for community action in the field of marine environmental policy (Marine Strategy Framework Directive) (Text with EEA relevance). [online]. Available at: <<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32008L0056>>

Environmental Protection Act 1990 [online]. London, 1990. Available at: <<http://www.legislation.gov.uk/ukpga/1990/43/contents>>

Hall, K. *Impacts of marine debris and oil: economic and social costs to coastal communities* [online]. Lerwick, Shetland: Kommunenes Internasjonale Miljøorganisasjon (KIMO), 2000. Available at: <<http://www.kimointernational.org/WebData/Files/Karensreport.pdf>>

Luković T. *Nautical tourism and its function in the economic development of Europe: visions for global tourism industry: creating and sustaining competitive strategies*. In: InTech [online]. Rijeka, Croatia: InTechEurope, 2012. Available at: <<http://cdn.intechopen.com/pdfs-wm/35535.pdf>>

Marine Conservation Society. *Beachwatch Big Weekend 2009 : final report. Chapter 2: Methods*. Marine Conservation Society (MCS).

Marine Conservation Society. *Beachwatch Big Weekend, summary report results 2011, making sense of beach litter*. Marine Conservation Society (MCS).

Mouat J. et al. *Economic impacts of marine litter* [online]. KIMO International, 2010. p. 105. Available at: <<http://bit.ly/1VYP1hS>>

National Oceanic and Atmospheric Administration. *Interagency report on marine debris sources, impacts, strategies & recommendations* [online]. Silver Spring, MD: NOAA. 2008. Available at: <<http://bit.ly/28E4kls>>

Ocean Conservancy. *Start a sea change : International Coastal Clean-up Results: Report 2007* [online]. Washington, DC.: OC, 2008. Available at: <<http://bit.ly/1Pttd4>>

Potts T. ; Hastings E. *Marine Litter Issues, Impacts and Actions*. Scottish Government, 2012. Available at: <<http://www.gov.scot/Resource/0040/00402421.pdf>>

Prevention of pollution by garbage from ships: Regulations for the Prevention of pollution by garbage from ships are contained in Annex V of MARPOL 73/78 [online]. Londres: IMO, 2012. Available at: <http://www.imo.org/blast/mainframe.asp?topic_id=297>

Protocol for the protection of the Mediterranean Sea against pollution from land-based sources [online]. 1996. Available at: <<http://www.unep.ch/regionalseas/main/med/mlbsp.html>>

Ryan P.G. et al. *Monitoring the abundance of plastic debris in the marine environment*. In: *Philosophical Transactions B* [online]. London : Royal Society, 2009, vol. 364, no. 1526), p. 1999–2012. ISBN: 1471-2970 (online) ISBN: 0962-8436 (print). Available at: <<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2873010/>>

Sheavly S.B. et al. *Marine Debris – an Overview of a Critical Issue for Our Oceans*. In: *Sixth Meeting of the UN Open-ended Informal Consultative Process on Oceans and the Law of the Sea*. New York, 2005. Available at: <<http://bit.ly/2625YS2>>

The Marine Environment Protection Committee. 2012 *Guidelines for the implementation of Marpol Annex V: Resolution MEPC.2012, 219(63)* [online]. Available at: <<http://bit.ly/1OoB9m2>>

United Nations Environment Programme. *Marine Litter : an analytical overview* [online]. Nairobi, Kenya, 2005. Available at: <<http://bit.ly/1ZEupAW>>

United Nations Environment Programme. *Marine Litter* [online]. Nairobi, Kenya. Available at: <<http://www.unep.org/regionalseas/marinelitter/about/default.asp>>

United States environmental Protection Agency. *Cruise ship discharge assessment report* [online].: EPA 842-R-07-005. Washington, DC: US EPA Oceans and Coastal Protection Division.: Office of Waters, 2008. Available at: <<http://1.usa.gov/1TSBj5p>>

What's in the sea for me? [online] : *ecosystem services provided by the Baltic Sea and Skaggeak*. Report 5872. Stockholm: Naturvårdsverket (2009.). Available at: <<http://bit.ly/24QIIL1>>

Oil spill response cost-effectiveness analytical tool (osrceat): application in the canary islands

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Bergueiro, J. R. *La gestión de los derrames de hidrocarburos en el mar*. Palma de Mallorca, Área de Ingeniería Química. Facultad de Ciencias. Universidad de las Islas Baleares, 2001. Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun09835115>>

Calvilla-Quintero, J. M. ; González-Almeida, J. A. ; Gómez Gómez, J. I. ; Bergueiro López, J. R. *Sistemas insulares de respuesta y operaciones ante contaminantes oceánicos : (SIROCO)*. In: *9 Congreso Nacional del Medio Ambiente* [online] : CONAMA. La Laguna: CONAMA, 2008. Available at: <<http://bit.ly/1tqptoU>>

Schmidt Etkin, D. ; Welch, J. *Development of the oil spill response cost-effectiveness analytical tool*. New York: Environmental Research Consulting Cortlandt Manor, 2005. Available at: <<http://bit.ly/1U8hUu5>>

Schmidt Etkin, D. ; Welch, J. *Oil Spill Response Cost-Effectiveness Analytical Tool* [online] : (OSRCEAT). New Hampshire: Environmental Research Consulting. University of New Hampshire/National Oceanic and Atmospheric Administration Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), 2005. Available at: <http://www.environmental-research.com/erc_reports/ERC_report_12.pdf>

Optimal water supply related to water production capabilities on board-ship management

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Castro J.; Nabona N. An implementation of linear and nonlinear multi-commodity network flows. In: *European Journal of Operational Research*. [online]. 1996, Vol. 92, No.1, p. 37-53. Available at: <<http://www-eio.upc.es/~jcastro/publications/papers/ejor1996.pdf>>

Chybowski L. ; Żółkiewski S. Basic reliability structures of complex technical systems. In: *New Contributions in Information Systems and Technologies* [online]. Springer International Publishing, 2015. Advances in Intelligent Systems and Computing, vol. 354, p. 333-342.

Available only to UPC users: <http://dx.doi.org/10.1007/978-3-319-16528-8_31>

Chybowski L. ; Laskowski R. ; Gawdzińska K. An overview of systems supplying water into the combustion chamber of diesel engines to decrease the amount of nitrogen oxides in exhaust gas. In: *Journal of Marine Science and Technology* [online]. Tokyo: Springer, 2015, Vol. 20, No. 3, p. 393-405. ISSN: 1437-8213 (online) ISSN: 0948-4280 (print). Available only to UPC users: <<http://dx.doi.org/10.1007/s00773-015-0303-8>>

Fleisher, L. Approximating multi-commodity flow independent of the number of commodities. In: *Siam J. Discrete Math.* [online]. 2000, Vol. 13, No. 4, p. 505-520. Available at: <<http://www.cs.dartmouth.edu/~lkf/papers/lpmulti.pdf>>

Fonoberova, M. ; Lozovanu, D. The maximum flow in dynamic networks. In: *Computer Science Journal of Moldova*. [online]. 2004, Vol. 3, No. 36, p. 387-396. Available at: <[http://www.math.md/files/csjm/v12-n3/v12-n3-\(pp387-396\).pdf](http://www.math.md/files/csjm/v12-n3/v12-n3-(pp387-396).pdf)>

Foster, I. Case study: shortest-path algorithms. In: *Designing and Building Parallel Programs* [online]. Argonne, IL: Addison-Wesley Inc., Argonne National Laboratory, and the NSF Center for Research on Parallel Computation, 1995. Available at: <<http://www.mcs.anl.gov/~itf/dbpp/text/node35.html#algdij1>>

Krile, S. ; Krile, M. ; Prusa, P. Non-Linear minimax problem of multi-stop flight routes. In: *Transport*, [online], 2015, Vol. 30, No 4, p., 361-371. Restricted access: <<http://dx.doi.org/10.3846/16484142.2015.1091984>>

Krile, S. ; Krile, M. Better profitability of multi-stop flight routes. In: *Proceedings of International Conference of Automation in Transportation (KOREMA)* [online] : Zagreb-

Wien, 2012. Zagreb : KoREMA, 2012, p. 97-100. Available at Worldcat: <<http://www.worldcat.org/oclc/852392736>>

Krile, S. Efficient heuristic for non-linear transportation problem on the route with multiple ports. In: *Polish Maritime Research [online] : the journal of Gdansk University of Technology*. Gdansk: Gdańsk University of Technology, Faculty of Ocean Engineering & Ship Technology, 2013, Vol. 20, No 4, 2013, p. 80-86. ISSN: 2083-7429. Restricted access: <<http://dx.doi.org/10.2478/pomr-2013-0044>>

Krile, S. Logistic support for loading/unloading in shipping with multiple ports = Logistika za ukrcaj i iskrcaj na plovidbi s više luka. In: *Proceedings of 31st International Conference of Automation in Transportation (KOREMA) [online] : Pula-Milan, 2011*. Zagreb: KoREMA, 2011, p. 94–97. Available at Worldcat: <<http://www.worldcat.org/oclc/813555297>>

Krile, S. Optimal voyage planning in container shipping. In: *Proceedings of 25th International Conference of Automation in Transportation (KOREMA) [online] : Zagreb–Copenhagen, 2005*. Zagreb: KoREMA, 2005, p. 32-35. Available at Worldcat: <<http://www.worldcat.org/oclc/438971213>>

Krile, S., Application of the minimum cost flow problem in container shipping. In: *Proceedings of 46th ELMAR' 04 (International Symposium of Electronics in Marine)*. [online]. Zadar, Croatia, 2004, p. 466-471, Zadar, Croatia. Available only to UPC users: <http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1356421>

Ouorou, A. ; Mahey, P. ; Vial, J. Ph. A survey of algorithms for convex multi-commodity flow problems. In: *Markup Languages [online]*. 2000, Vol. 46 , No. 1, p. 126-147. Available at: <<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.51.664&rep=rep1&type=pdf> >

Xiea, F. ; Jiab, R. Nonlinear fixed charge transportation problem by minimum cost flow-based genetic algorithm. In: *Computers & Industrial Engineering*, [online]. New York : Pergamon, 2012, vol. 63, no. 4, p. 763–778. ISSN: 0360-8352. Available at: <<http://dx.doi.org/10.1016/j.cie.2012.04.016>>

Yan S. ; Chen, H.C. ; Chen Y.H. ; Lou T.C. Optimal scheduling models for ferry companies under alliances, In: *Journal of Marine Science and Technology [online]*. Tokyo : Springer, 2007, Vol. 15, No. 1, p. 53-66. ISSN: 1437-8213 (online) ISSN: 0948-4280 (print). Available at: <<http://jmst.ntou.edu.tw/marine/15-1/53-66.pdf> >

Zangwill, W. I. Minimum Concave Cost Flows in Certain Networks. In: *Management Science*, 1968, Vol. 14, p. 429-450. Restricted access: <<http://dx.doi.org/10.1287/mnsc.14.7.429> >

Methanol as an alternative fuel for marine use to reduce the atmospheric pollution

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Anderson, K. ; Márquez Salazar, C. *Methanol as a marine fuel report* [online]. Gothenburg: Methanol Institute, FC Bussiness Inteligence, 2015. Available at: <<http://bit.ly/1W0BJbm>>

Bagniewsky, Michal. *LNG fuel for ships* [online] : *a chance or a must?*. Poland: Det Norske Veritas, 2014. Available at: <<http://bit.ly/1txGM8l>>

Chryssakis, Ch. ; Balland, O. ; Tvette, H. A. ; Brandsæter, A. *Alternative fuels for shipping*. [online]. Høvik, Norway, DNV GL, 2014. Strategic Research & Innovation Position Paper 1. Available at: <<http://bit.ly/1UegTWA>>

Dolan, G. *Creating a common market in future fuels* [online] : *methanol*. Washington: Hudson Institute, 2015. Available at: <<http://bit.ly/1UkRO9s>>

Esteve, J. *LNG as fuel for marine ships* [online] : *latest developments and best practices*. Kuala Lumpur: Malaysia LNG Forum, 2013. Available at: <<http://bit.ly/1UWw151>>

Haraldson, L. Future Fuels. In: *EffShip Final Seminar* [online]. Gothenburg, 2013. Available at: <<http://bit.ly/1XqWXA4>>

Herdzik, Jerzy. LNG as a marine fuel : possibilities and problems. In: *Journal of KONES Powertrain and Transport* [online]. 2011, vol. 18, no. 2. Available at: <<http://www.kones.eu/ep/2011/vol18/no2/22.pdf>>

Hoogma, R. ; Van der Gaag, P. Bio-LNG and its role in LNG bunkering : improving eco-performance and quality of fossil LNG. In: *Workshop small-scale LNG-terminals, LNG Masterplan*. Antwerp, 2014.

Kalli, J. ; Karvonen, T. ; Makkonen, T. *Sulphur content in ships bunker fuel in 2015* [online] : *a study on the impacts of the new IMO regulations on transportation costs*. Helsinki: Ministry of Transport and Communications, 2009. Publications of the Ministry of Transport and Communications 31/2009. Available at: <<http://bit.ly/1ZTyxgV>>

Lloyd's Register of Shipping. *LNG-fuelled deep sea shipping* [online] : *the outlook for LNG bunker and LNG-fuelled newbuild demand up to 2025*. London: Lloyd's Register Group Limited, 2012. Available at: <<http://bit.ly/1WOANHZ>>

Long, R. Where there's smoke, there's pollution. In: *The New York Times* [online], February 21, 2004. Available at: <<http://nyti.ms/1UeqzQR>>

McGill, R. ; Remley, W. ; Winther, K. *Alternative fuels for marine applications: a report from the IEA Advanced Motor Fuels Implementing Agreement* [online]. IEA-AMF, 2013. Available at: <<http://bit.ly/1sHEqTM>>

Ocean Shipping Consultants. (Royal Haskoning). *LNG as a bunker fuel: future demand prospects & port design options*. 2013.

Poplawski, K. ; Setton, E. ; Mcewen, B. ; Hrenemyk, D. ; Graham, M. ; Keller, P. Impact of cruise ship emissions in Victoria, BC, Canada. In: *Atmospheric Environment* [online]. 2011, 45, p. 824-833. Restricted access: <<http://dx.doi.org/10.1016/j.atmosenv.2010.11.029>>

Rozmarynowska, M. ; Ołdakowski, B. *Implications of new regulation regarding sulphur content in ship's fuel on maritime transport sector within Baltic Sea Region* [online] : on the basis of the TransBaltic and Baltic Ports Organization's Port Debate: Implications of the IMO regulations on the future pattern of the cargo flow in the Baltic. Helsinki: Baltic Ports Organization Secretariat, 2012. Available at: <<http://bit.ly/1Xrjsos>>

Sames, P. C. ; Clausen, N. B. ; Andersen, M. L. *Costs and benefits of LNG as ship fuel for container vessels* [online] : key results from a GL and MAN joint study. Hamburg: Germanischer Lloyd SE, 2012. Available at: <[http://www.gl-group.com/pdf/GL MAN LNG study web.pdf](http://www.gl-group.com/pdf/GL_MAN_LNG_study_web.pdf)>

Schrøder Bech, Mogens. Facilitation of the way ahead for LNG and the EU perspective. In: *MarTechLNG* [online]. MS Stavangerfjord: Danish Maritime Authority, 2012. Available at: < <http://bit.ly/1ZTAslp>>

Third IMO GHG study 2014 [online] : executive summary and final report. London: IMO, 2015. Available at: <<http://bit.ly/1TOeKzh>>

Using Methanol Fuel in the MAN B&W ME-LGI Series. [online]. Copenhagen: MAN Diesel and Turbo, 2014. Available at: <<http://bit.ly/21o8Fdn>>

Westling, P. ; RoRo, S. Methanol : a good alternative for ferries and short sea shipping. In: *Interferry Conference* [online] : Malta October 2013 .Available at: <<http://bit.ly/1S6VCqn>>

WPCI. *World Ports Climate Initiative*. IAPH – Port Environment Committee. [online]. Available at: <<http://www.lnqbunkering.org/lng/>>

Wuersig, G. M.. ; Chiotopoulos, A. ; Adams, S. *LNG as ship fuel*. DNV-GL, 2014, no 1. Available at:<<http://bit.ly/1ZTDWV7>>

SESSION 6: SAFETY AND SECURITY

Analysis and proposals on the operations of vessels to reduce accidents in fishing craft from Spain

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Asociación Mar Seguro de Galicia. *Los servicios de prevención mancomunados en el sector de la pesca de bajura* [online]: *los servicios de prevención. Una ayuda para llevar a la práctica la prevención de riesgos laborales en las embarcaciones Gallegas*. Celeiro: 4 octubre 2012. Available at:

<<http://bit.ly/28XW1zH>>

Espanya. Ministerio de Agricultura, Alimentación y Medio Ambiente. *Estadística* [online]: *datos 2012-2013-2014*. Enero 2014. Available at: <<http://bit.ly/28WLK4t>>

Fundación para la Pesca y el Marisqueo (FUNDAMAR). *Análisis de la aplicación de la PRL en el sector de la pesca en Galicia* [online]: *propuesta de intervención*. Vigo: FUNDAMAR, 2012. Available at: <<http://bit.ly/291DhS0>>

García, N. E.; Carro, P. *Aspectos de seguridad en la pesca de bajura* [online]. Sevilla: Centro Nacional de Medios de Protección, 2004. Available at: <<http://bit.ly/290kKVC>>

Gefaeil, G. Algunas consideraciones sobre la estabilidad y seguridad de los buques pesqueros menores de 24 metros de eslora. [online] : Artículos publicados en las revistas "Ingeniería Naval", "Europa Azul" y "Sector Pesquero" (2005), 2005. In: *Gestenaval SL*. Vilagarcía de Arousa: Gestenaval SL, 2010. Available at: <<http://www.gestenaval.com/?p=127>>

Míguez, M. [et al]. Un sistema embarcado de evaluación de la estabilidad y ayuda al patrón de buques de pesca. In: *Ingeniería Naval* [online]. Madrid: Asociación de Ingenieros Navales de España, 2010, n. 880, p. 90-97, ISSN 0020-1073. Available at: <<http://bit.ly/28PL4kg>>

Moreno, F. J. Siniestralidad en el sector pesquero. In: *Seminario Buques de Pesca* [online]. Sevilla: Centro Nacional de Medios de Protección, 2012. Available at: <<http://bit.ly/28PffQM>>

Moreno, F. J.; Gómez-Cano, M. *Causas de los accidentes marítimos muy graves en la pesca 2008-2013* [online]. Madrid: Instituto Nacional de Seguridad e Higiene en el Trabajo, 2014. Available at: <<http://bit.ly/28PLgQx>>

Neachtain, S. *La pesca de bajura y los problemas a los que se enfrentan los pescadores de bajura* [online]: 2004/2264(INI). Parlamento Europeo, Comisión de pesca, 26 abril 2006. Available at: <<http://bit.ly/28PfrfJ>>

Rodriguez, J. A. *El ISSGA y La prevención de riesgos laborales en la pesca en Galicia, gestión de la prevención. Evolución de la siniestralidad 2013* [online]. Sevilla, 14 de Mayo de 2013. Available at : <<http://bit.ly/28OunIm>>

Tasende, J. M. Seguridad en la pesca de bajura. In: *MAPFRE Seguridad*. [online]. Madrid: Fundación Mapfre, 1998, No. 72, cuarto trimestre. Available at: <<http://bit.ly/28XNwSh>>

Womack, J. Small commercial fishing vessel stability analysis. Where are we now? Where are we going? In: *Marine technology* [online]. Estats Units d'Amèrica: SNAME, 2003, Vol. 40, No. 4, October, pp. 296-302. Available at: <<http://bit.ly/1OsPaz8>> Restricted access: <<http://bit.ly/28TAWon>>

Evaluation of stability for a passenger ship in Inland Water in Koman Lake in Albania

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Albanian Maritime Administration. *Albanian Regulation for Ship Inspection*. Durrës, AL: AMA, 2009.

Bentley. *Maxsurf*. Australia: Formation Design Systems Pty Ltd, 2009

Europea Parliament. Directive of the European Parliament and of the Council of 12 December 2006 laying down technical requirements for inland waterway vessels and repealing Council Directive 82/714/EEC. In: *Official Journal of the European Union* [online]. 2006/87/EC, 30.12.2006, L389/1-L389/260. Available at: <<http://eur-lex.europa.eu/legal-content/GA/TXT/?uri=celex:32006L0087>>

Girace, C. *Rilievo di carene navali mediante tecniche di riverese engineering* [online]. Napoli: Università Degli Studi Di Napoli Federico II, 2006, Tesi di dottorato. Available at: <<http://www.fedoa.unina.it/id/eprint/1503>>

Lapa, K. *Statika dhe Qendrushmeria e Anijes*. Tirane, Albania: SHBLU, 2004.

Lapa, K. *Gjeometria e Anijes*. Tirane, Albania: SHBLU, 2003.

Lapa, K.; Xhaferaj, B., A case study on the stability analysis of passenger ship in Lake Koman in Albania. In: *Proceedings of the 17th International Conference on Transport Science of ICTS* [Online], Portoroz, Slovenia, 21-22 May 2015. Vlore: University Ismail Qemali, 2005, p. 200-210. Presentation available at: <<http://bit.ly/28MT6Kh>>

Lapa, K.; Ibrahim, K. The influence of Albanian sea winds on fishing-boat stability of FV 2KP-400 type. In: IMAM. *Proceedings of the 11th International Congress of IMAM* [Online], Lisbon, Portugal, 2005. Londres: Taylor & Francis: 2006, p. 1231-1237. ISBN: 978-1-4398-3372-8 (online) ISBN: 978-0-415-39036-1 (print). Available at: <<http://dx.doi.org/10.1201/9781439833728.ch150>>

Xhaferaj, B. [et al]. A case study on the prediction of some hydrodynamics characteristics of a small marine vehicle. In: International Maritime Science Conference. *Book of Proceedings of the 6th International Maritime Science Conference* [Online] : April 28th-29th 2014, Solin, Croatian. Split: Faculty of Maritime studies, 2014, p. 294-300. Available at: <https://www.pfst.unist.hr/imsc/archive/2014/IMSC2014_proceedings.pdf>

Xhaferaj, B. [et al]. Perdorimi i sistemeve te programeve Maxsurf per vleresimin e cilesive lundrimore te mjeteve te transportit detar shqiptar. Vlore: Besueshmeria e Mjeteve te Transportit Detar, 2008, p. 52-61.

Xhaferaj, B., Kasemi, V., Duka, M. Design of hull surface using modern modelling technique. In: *Journal of Institute Alb-Shkenca* [Online]: *AKTET*. Tiranë ; Prishtinë ; Shkup: Instituti Alb-Shkenca, 1994, Vol. III, No 2, p. 260-266, 1994, ISSN: 2073-2244. Available at: <http://alpa.mali-it.eu/pub/aktet/vol/vol3/Aktet_Vol_III_Nr_2_pp_261_266.pdf>

Polish national maritime safety system – objectives of the establishment, structures and tasks

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European Parliament and of the Council. L 131. Directive 2009/17/EC of the European Parliament and of the Council of 23 April 2009 amending Directive 2002/59/EC establishing a Community vessel traffic monitoring and information system. In: *Official Journal of the European Union* [online], 28th May of 2009. Available at: <<http://bit.ly/28N9oQU>>

European Parliament and of the Council. L 131/114. Directive 2009/18/EC of the European Parliament and of the Council of 23 April 2009 establishing the fundamental principles governing the investigation of accidents in the maritime transport sector and amending Council Directive 1999/35/EC and Directive 2002/59/EC of the European Parliament and of the Council. In: *Official Journal of the European Union* [online], Croatia, 28th May of 2009, Vol.03, chapter 07. Available at: <<http://data.europa.eu/eli/dir/2009/18/oj>>

European Parliament and of the Council. L 208. Directive 2002/59/EC of the European Parliament and of the Council of 27 June 2002 establishing a Community vessel traffic monitoring and information system and repealing Council Directive 93/75/EEC. In: *Official Journal of the European Union* [online], 05th August of 2002. Available at: <<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=URISERV:l24243>>

European Parliament and of the Council. L 283/1. Directive 2010/65/EU of the European Parliament and of the Council of 20 October 2010 on reporting formalities for ships arriving in and/or departing from ports of the Member States and repealing Directive

2002/6/EC. In: *Official Journal of the European Union* [online], Croatia, 29th October of 2010, Vol. 02. Available at: <<http://data.europa.eu/eli/dir/2010/65/oj>>

European Parliament and of the Council. L 308. Commission Directive 2014/100/EU of 28 October 2014 amending Directive 2002/59/EC of the European Parliament and of the Council establishing a Community vessel traffic monitoring and information system. In: *Official Journal of the European Union* [online], 19th October of 2014. Available at: <<http://data.europa.eu/eli/dir/2014/100/oj>>.

European Parliament and of the Council. L 49. Commission Directive 2011/15/EU of 23 February 2011 amending Directive 2002/59/EC of the European Parliament and of the Council establishing a Community vessel traffic monitoring and information system. In: *Official Journal of the European Union* [online]. Special edition in Croatian, 24th February of 2011, chapter 07, Vol. 019-. Available at: <<http://data.europa.eu/eli/dir/2011/15/oj>>

Królikowski A.; Wawruch R. Implementation of the Polish National Maritime Safety System (KSBM): stage I and II. In: *Proceedings of the 16th International Scientific and Technical Conference on Marine Traffic Engineering (MTE) and International Symposium Information on Ships*. Maritime University of Szczecin, 2015, p. 406-415. Available at: <<http://repository.scientific-journals.eu/handle/123456789/1198>>

Poland. Dz.U.2011.228.1368. Act of 18 August 2011 on maritime safety. In: *Polish Journal of Law* [online]. 25th October of 2011. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2011-228-1368>>

Poland. Dz.U.2012.1412. Regulation of the Polish Minister of Transport, Construction and Maritime Economy of 4th December of 2012 on National Vessel Traffic Monitoring and Information System. In: *Polish Journal of Law*. [online]. 14th December of 2012. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2012-1412>>

Poland. Dz.U.2012.168. Regulation of the Polish Minister of Transport, Construction and Maritime Economy of 8th February of 2012 on the operation of an electronic database of ships of Polish flag. In: *Polish Journal of Law* [online]. 14th February 2012. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2012-168>>

Poland. Dz.U.2012.320. Regulation of the Polish Minister of Transport, Construction and Maritime Economy of 8 March 2012 on maritime telemedical assistance service. In: *Polish Journal of Law* [online]. 26th March of 2012. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2012-320>>

Poland. Dz.U.2012.575. Regulation of the Polish Minister of Transport, Construction and Maritime Economy of 16 May 2012 on a plan to grant refuge to ships in need of assistance in Polish maritime areas. In: *Polish Journal of Law* [online]. 23th June of 2012. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2012-575>>

Poland. Dz.U.2015.1320. Act of 24 July 2015 amending the act on maritime safety and some other acts. In: *Polish Journal of Law* [online]. 7th September of 2015. Available at: <<http://www.lex.pl/du-akt/-/akt/dz-u-2015-1320>>

Poland. *Dz.U.2015.434. Act of 16 March 1995 on prevention of pollution from ships*. In: *Polish Journal of Law* [online]. 25th February of 2015. Available at: <<http://www.lex.pl/du-akt/-akt/dz-u-2015-434>>

Wawruch R. New radar system along the polish coast and inside the polish ports. In: *Scientific Journals of the Maritime University of Szczecin* [online]. Szczecin : Akademia Morska, 2015, Vol. 44, No. 116, p. 196-203. ISSN 2392-0378 (Online) ISSN 1733-8670 (Printed). Available at: <<http://bit.ly/28Mnjpr>>

The automatic identification system (ais): a data source for studying maritime traffic

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Auzon, O. La piraterie maritime est en baisse mais il ne faut pas baisser la garde. In: *Diploweb.com* [online]. 17 mars 2013. Available at: <<http://www.diploweb.com/La-piraterie-maritime-est-en.html>>

Cairns, W. R. AIS and long range identification & tracking. In: *The Journal of Navigation* [online]. 2005, Vol. 58, No. 02, p. 181-189 Available at: <<http://bit.ly/293DMLH>>

Chen Y. Marine navigation and safety of sea transportation: advances in marine navigation, will satellite-based AIS supersede LRIT? In: *Advances in Marine Navigation* [online]. Marine Navigation and Safety of Sea Transportation . CRC Press, 2013, p.91-94. Available at: <<http://bit.ly/28MNpZI>>

Deboosere P.; Dessouroux C. Le contrôle de l'espace et de ses usage(r)s : avancées technologiques et défis sociaux. In: *Espace populations sociétés* [online]. 2009/ , p. 3-11. Available at: <<https://eps.revues.org/5004>>

Devogele, T. *Système d'information géographique temporelle maritime* [online] : des distances linéaires à l'analyse temps réels des trajectoires. Brest: Université de Bretagne Occidentale, 2009. <<https://tel.archives-ouvertes.fr/tel-00441484/document>>

Dujardin; B. L' AIS et ses capacités de surveillance maritime. In: *La revue maritime* [online], 2004, No. 467. Available at: <<http://ifm.free.fr/htmlpages/pdf/2004/467-92dujardin.pdf>>

Dumouchel, A. *Les atteintes à la sûreté en haute mer*. Paris: Université Panthéon-Assas-Paris II, 2008-2009. Mémoire de Master recherche en relations internationales, Available at: <<http://bit.ly/28R6my0>>

Eriksen, T. [et alt]. Maritime traffic monitoring using a space-based AIS receiver In: *Acta Astronautica* [online], 2006, Vol. 58, Issue 10, p. 537–549. Available at: <<http://bit.ly/291f1hl>>

Faye, F. Une stratégie navale pour le XXI^e siècle La maîtrise de l'information sur mer. In: *La Revue Maritime* [online], 2005, 471, p. 116-125. Available at: <<http://ifm.free.fr/htmlpages/pdf/2005/471-strategie-navale-faye-08.pdf>>

Fournier, M. *L'apport de l'imagerie satellitale à la surveillance maritime : contribution géographique et géopolitique* [online]. Montpellier: Université Paul Valéry - Montpellier III, 2012. Available at: <<https://tel.archives-ouvertes.fr/tel-00829998/>> Dissertation Université Paul Valéry - Montpellier III

Guichoux, Y. [et al.] ENVISIA : a scalable archiving system for AIS data storage. In: *Global sharing of Maritime Data* [online]: IALA workshop 12-16 September, 2011. Available at: <<http://bit.ly/28PZFMi>>

Harati-Mokhtari, A. [et al.] Automatic identification system (AIS) : data reliability and human error implications. In: *Journal of Navigation* [online], 2007, 60, p. 373-389. Available at <<http://dx.doi.org/10.1017/S0373463307004298>>

Kaluza P. [et al.] The complex network of global cargo ship movements. In: *Journal of the Royal Society Interface* [online], 2010, Vol. 7, No. 48, p. 1093-1103. Available at: <<http://rsif.royalsocietypublishing.org/content/7/48/1093>>

Kocak, D.M.; Browning P. Real-time AIS tracking from space expands opportunities for global ocean observing and maritime domain awareness. In: *OCEANS 2015* [online]. Washington : MTS/IEEE, 2015, 19-22 Oct. Available only to UPC users / Restricted access: <<http://bit.ly/28OHEjX>>

Le Guyader, D.; Brosset, D.; Gourmelon, F. Exploitation de données AIS (Automatic Identification System) pour la cartographie du transport maritime. In: *Mappemonde* [online], No. 104. Available: at: <<http://mappemonde.mgm.fr/num32/articles/art11405.html>>

Löptien, U.; Axell, L. Ice and AIS: ship speed data and sea ice forecasts in the Baltic Sea In: *The Cryosphere* [online], 2014, Vol. 8, No. 6, p. 2409-2418. Available at: <<http://dx.doi.org/10.5194/tc-8-2409-2014>>

Mitchell, K. N. [et al.] Waterway performance monitoring via automatic identification system (AIS) data. In: *Transportation Research Board (TRB) 93rd Annual Meeting* [online], Chicago, 12-16 janvier 2014. Available at: <<http://docs.trb.org/prp/14-5429.pdf>>

Pérez, H.M. [et al.] Automatic identification systems (AIS) data use in marine vessel emission estimation. In: *18th Annual International Emissions Inventory Conference* [online], Baltimore, 2009. Available at: <<https://www3.epa.gov/ttnchie1/conference/ei18/session6/perez.pdf>>

Perkovic, M. [et al.] Nautical risk assessment for LNG operations at the Port of Koper In: *Strojniški vestnik* [online]: *Journal of Mechanical Engineering*. Ljubljana: Zveza strojnih inženirjev in tehnikov Slovenije, 2012, No. 10, p. 607-613. ISSN: 0039-2480. Available at: <<http://dx.doi.org/10.5545/sv-jme.2010.265>>

Prévost, R. *Décodage et localisation AIS par satellite*. Thèse de doctorat, Université de Toulouse, 2012. Available at: <<http://ethesis.inp-toulouse.fr/archive/00002147/>>

Salim Chebli, A. *La piraterie maritime au début du XXIème siècle*. Mémoire pour le diplôme d'Université de 3ème cycle Analyse des Menaces Criminelles Contemporaines, Université Paris II, 2009. Available at: <<http://bit.ly/28Nhmck>>

Saputra, H. [et al.] Estimation and distribution of exhaust ship emission from marine traffic in the straits of Malacca and Singapore using automatic identification system (AIS) data. In: *The 8th International Conference on Numerical Analysis in Engineering* [online]. Pekanbaru, Indonesia. 2012-2013, 131-142

Schwehr, K.; Mc Gillivray, P. Marine ship automatic identification system (AIS) for enhanced coastal security capabilities: an oil spill tracking application. In: *Oceans07* [online]. Washington: MTS/IEEE, 2007, Vancouver. Available only to UPC users / Restricted access: <<http://bit.ly/28OJam6>>

Serry, A. *Le transport maritime en mer Baltique, entre enjeu économique majeur et approche durable*. In: *Revue d'études comparatives Est-Ouest* [online]. No. 44, 2013, p. 89-123. Restricted access: <<http://dx.doi.org/10.4074/s0338059913003069>>

Shelmerdine, R. L. Teasing out the detail : how our understanding of marine AIS data can better inform industries, developments, and planning. In: *Marine Policy* [online], 2015, Vol. 54, p. 17–25. Available at: <<http://dx.doi.org/10.1016/j.marpol.2014.12.010>>

Świerczyński S.; Czaplewski, K. The Automatic Identification System operating jointly with radar as the aid to navigation. In: *Scientific Journals of the Maritime University of Szczecin* [online]. [Szczecin : Akademia Morska](http://www.szczecin.pl), 2013, Vol.36, No. 108, p.156–161. ISSN 2392-0378 (Online) ISSN 1733-8670 (Print). Available at: <<http://bit.ly/28MPkx0>>

Terrassier, N. Les évolutions en matière de sécurité et de sureté dans le transport maritime : réglementation et enjeux économiques. In: *Note de Synthèse* [online]. ISEMAR 2004, No. 62, ISSN: 1282-3910 Available at: <<http://www.isemar.asso.fr/fr/pdf/note-de-synthese-isemar-62.pdf>>

They, H. *Marine Traffic Project* [online]: un outil d'observation des routes et des ports maritimes. In: *Mappemonde* [online], 2012, No. 104 Available at: <<http://mappemonde.mgm.fr/num32/internet/int11401.html>>

Vandecasteele, A.; Napoli, A. La place du géodécisionnel dans les systèmes de surveillance maritime de nouvelle génération : apport du géodécisionnel dans la surveillance maritime. In: *SAGEO 2011: International Conference on Spatial Analysis and GEOmatics*, Conférence internationale de Géomatique et d'Analyse [online], 3-8 juillet 2011, Paris. Available at: <<https://hal-mines-paristech.archives-ouvertes.fr/hal-00660917>>

Zouaoui-Elloumi, S. *Reconnaissance de comportements de navires dans une zone portuaire sensible par approches probabiliste et événementielle : application au grand Port Maritime de Marseille* [online]. École Nationale Supérieure des Mines de Paris, 2012, thèse de doctorat,. Available at:

<<https://pastel.archives-ouvertes.fr/pastel-00737678>>

SESSION 7 PORTS AND TERMINAL MANAGEMENT I

Technical viability and implications of shiprepair activity in the port of Santa Cruz de Tenerife. new perspectives

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Acosta. *Evolución de las empresas de reparación naval en el Puerto de S/C de Tenerife.*

Astilleros de reparación en el ámbito del puerto de S/C de Tenerife [online]. La Laguna: Universidad de la Laguna, 2014. Available at: <<https://www.youtube.com/watch?v=jLlBPiPxKvK>>

Autoridad Portuaria de Santa Cruz de Tenerife. *Puertos de Tenerife* [online]. Available at: <<http://www.puertosdetenerife.org/index.php/es/>>

Confederación Canaria de Empresarios. *Ejercicio [2006-2014]*

Cova Pérez, Roberto. *Syncrolft : técnica optimizada de varada de buques*. Santa Cruz de Tenerife: ULL, 2010. Available at: <<http://absysnetweb.bbt.ull.es/cgi-bin/abnetopac01?TITN=453023>>. Bachelor thesis Universidad de La Laguna.

Darias Padrón, D. V. La villa y puerto de Garachico. In: *Revista de historia* [online]. La Laguna de Tenerife: Facultad de Filosofía y Letras de la Universidad de La Laguna, 1933, Tomo 4, Vol. 10, No. 37, p. 130-137. Available at: <<http://mdc.ulpgc.es/cdm/ref/collection/revhistoria/id/110>>

El puerto de S/C de Tenerife. Recuperar los servicios de la reparación naval. In: *Diario de Avisos* [online]. Santa Cruz de Tenerife: Canaria de Avisos, 2015. Available at: <<http://bit.ly/294pV6m>>

Herrera, R. Tenerife es el punto más emergente de cruceros de todo el atlántico. In: *Diario de Avisos* [online]. Santa Cruz de Tenerife: Canaria de Avisos, 2012. Available at: <http://bit.ly/1XA6p4V>

Padrón Martín, Federico. *La carpintería de ribera en la pesca artesanal de Canarias*. La Laguna: Universidad de la Laguna, 2013. Dissertation Universidad La Laguna

Padron, A. ; Garcia Martínez, J. L. ; Rodríguez Zaragoza, P. La reparación naval en el puerto de S/C de Tenerife. Varaderos – Astilleros. In: *Revista Capitán*. No. 18.

Primera plataforma llega a puerto. In: *El Día*. [online]. Santa Cruz de Tenerife: Editorial Leoncio Rodríguez, 2015. Available at: <<http://bit.ly/28TjsZe>>

Puertos de Tenerife. *Primer desembarcadero* [online]. Tenerife: Puertos de Tenerife, 2009. Available at: <http://bit.ly/1UaWFaZ>>

Ramos, D. Diez empresas de reparación naval crean un frente común. In: *El Día* [online]. Santa Cruz de Tenerife: Editorial Leoncio Rodríguez, 2015. Available at: <<http://bit.ly/28Okfiu>>

Reverón, E. Comienzan las obras del gran centro de reparación naval en el puerto capitalino. In: *La Opinión de Tenerife* [online]. Tenerife: Grupo Editorial Prensa Ibérica, 2015. Available at: <<http://bit.ly/28NpjyM>>

Romero Ruiz, C. ; Beltrán Yanes, E. *El impacto de las coladas de 1706 en la ciudad de Garachico* [online]. Alicante: Universidad de Alicante. Instituto Interuniversitario de Geografía, 2015. Available at: <<http://rua.ua.es/dspace/handle/10045/47844>>

Scouring processes in harbour basins during the docking and undocking manoeuvring: laboratory experiments

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Canepa, S. ; Hager, W.H. Effect of Jet Air Content on Plunge Pool Scour. In: *Journal of hydraulic engineering* [online]. [Reston, VA] : American Society of Civil Engineers, 2003, Vol. 129, No. 5, p. 358-365. ICSE6-148. Available only to UPC users: <http://cataleg.upc.edu/record=b1209577~S1*cat>

Chiew, Y. [et al.]. Local scour by offset and propeller jets. In: International Conference on Scour and Erosion. *ICSE6* [online] : Paris August 27-31, 2012. 2012, p. 949–956. Available at: <<http://scour-and-erosion.baw.de/icse6-cd/data/articles/000148.pdf>>

Chiew, Y. ; Lim, S. Local scour by a deeply submerged horizontal circular jet. In: *Journal of hydraulic engineering* [online]. 1996, vol. 122, no. September, p. 529–532. Available only to UPC users: <http://cataleg.upc.edu/record=b1209577~S1*cat>

Fuehrer, M. Römish, K. ; Engelke, G. Criteria for dimensioning the bottom and slope protections and for applying the new methods of protecting navigation canals. In: PIANC. *25th P.I.A.N.C. Congress-Edinburgh May 1981*. Brussels : AIPCN=PIANC, Section I, 1981. Available at Worldcat: <<http://www.worldcat.org/oclc/220923680>>

Geisenhainer, P. ; Koll, K. Scour development caused by propeller jet of moving vessels. In: *River Flow* [online]. CRC Press, 2014. p. 1535–1543. Available at: <<http://dx.doi.org/10.1201/b17133-204>>

Hamill, G. *Characteristics of the screw wash of a manoeuvring ship and the resulting bed scour*. Belfast: Queen's University of Belfast, 1987. Available at worldcat: <<http://www.worldcat.org/oclc/556428700>>. Dissertation Queen's University of Belfast.

Hamill, G. . ; Johnston, H. T. ; Stewart, D. Propeller Wash Scour Near Quay Walls. In: *Journal of Waterway, Port, Coastal, and Ocean Engineering* [online]. New York, N.Y. : American Society of Civil Engineers, 1999, vol. 125, no. 4 August, p. 170–175. ISSN: 0733-950X. Available at: <<http://bit.ly/28Hdsfn>>

Hamill, G. ; Mcgarvey, J. A. ; Hughes, D. A. B. Determination of the efflux velocity from a ship's propeller. In: *Proceedings of the Institution of Civil Engineers-Maritime Engineering*. [online]. Escòcia: ICE Publishing, 2004. vol. 157, no 2, p. 83–91. Available at: <<http://bit.ly/1YtS3IA>>

Hamill, G. The scouring action of the propeller jet produced by a slowly manoeuvring ship. In: *PIANC*, 1988, vol. 62.

Hong, J. H. [et al.]. Evolution of scour induced by propeller wash. In: International Conference on Scour and Erosion. *ICSE6* [online] : *Paris August 27-31, 2012*. 2012, p. 147. Available at: <<http://scour-and-erosion.baw.de/icse6-cd/data/articles/000147.pdf>>

Lam, W. [et al.]. Simulations of a Ship's Propeller Wash. In: *The Sixteenth International Offshore and Polar Engineering Conference* [online] : 28 May-2 June. San Francisco, California, USA . International Society of Offshore and Polar Engineers, 2006. Restricted access: <<https://www.onepetro.org/conference-paper/ISOPE-I-06-129>>

MarCom Working Group 180. *Guidelines for protecting berthing structures from scour caused by ships*. Bruxelles: MarCom, 2015. Report 180. Restricted access: <<http://www.pianc.org/edits/articleshop.php?id=2015180>>

Mason, P. J. ; Arumugam, K. Free Jet Scour Below Dams and Flip Buckets. In: *Journal of hydraulic engineering* [online]. 1985, vol. 111, no. 2, p. 220–235. Available only to UPC users: < <http://bit.ly/1UEgv0j>>

Mujal-Colilles, A. ; Gironella, X. ; Sanchez-Arcilla, A. Study of the bed velocity induced by two propellers (under review). In: *J. Appl. Ocean Res.*, 2016.

Mujal-Colilles, A. ; Gironella, X. ; Sanchez-Arcilla, A. Erosion caused by propeller jets in a low energetic harbour basin. (under review). I In: *Journal of hydraulic engineering* [online]. 2016.

Schokking, L.A. ; Janssen, P.C. ; Verhagen, H.J. Bowthruster-induced damage. In: *PIANC Bulletin*. [online]. Delft: PIANC, 2003, vol. 114 (October). Available at: <http://bit.ly/1ZTFVZw>

Stewart, D. P. J. . *Characteristics of a ship's screw wash and the influence of quay wall proximity*. Belfast: Queen's University of Belfast, 1992. Available at worldcat: <<http://www.worldcat.org/oclc/556536730>>. Dissertation Queen's University of Belfast.

Modeling an offshore container terminal: the Venice case study

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Arnold, D. ; Rall, B. Analyse des Lkw-Ankunftsverhaltens in Terminals des Kombinierten Verkehrs. In: *Internationales Verkehrswesen* [online], vol. 50, n. 6. 1998, p. 262-264. Restricted access: <<https://trid.trb.org/view.aspx?id=990619>>

Ballis, A. ; Abacoumkin, C. A Container Terminal Simulation Model with Animation Capabilities. In: *Journal of Advanced Transportation* [online] , Vol. 30, issue 1, p. 37-57. Restricted acces: <<http://onlinelibrary.wiley.com/doi/10.1002/atr.5670300104/abstract>>

Chlomoudis K. *Organisation, administration, management of port freight terminals*. Greece: University of Piraeus . Department of Maritime studies .

Commissario Del Governo Delegato Al Traffico Acqueo nella laguna Di Venezia. *Morfologia e ausili alla navigazione nella laguna di Venezia* [online]. Available at: <<http://www.comune.venezia.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/3836>>

Commissario Del Governo Delegato Al Traffico Acqueo Nella Laguna Di Venezia. *Limiti di velocità e criteri generali riguardanti la navigazione della laguna di Venezia*. [online]. Available at: <<http://www2.comune.venezia.it/motondoso/piantina.pdf>>

Malavasi G. ; Quattrini A. ; Ricci S. Effect of the distribution of the arrivals and of the intermodal units sizes on the transit time through freight terminals. In: *Computer in Railways X* [online]: *Computer System Design and Operation in the Railway and other Transit Systems*. Southampton : WIT Press, 2006. Available at: <<http://www.witpress.com/Secure/elibrary/papers/CR06/CR06088FU1.pdf>>

Marinacci C. ; Quattrini A. ; Ricci S. Integrated design process of maritime terminals assisted by simulation models. In: *Proceedings of the 11th International Workshop on*

Harbor, Maritime & Multimodal Logistics Modeling & Simulation, Campora San Giovanni. 2008.

Marinacci, C. ; Quattrini, A. ; Ricci S. Integrated design process of maritime terminals assisted by simulation models. In: *HMS 2008: [online] The international workshop on harbour, maritime & multimodal. Logistics modelling and simulation*, Briatico, 17 – 19 September 2008.

Ministero delle Infrastrutture e dei Trasporti – Magistrato delle Acque Di Venezia. *Terminal Plurimodale off-shore al largo della costa di Venezia – Progetto preliminare – Studio di impatto ambientale, quadro di riferimento progettuale*, [online], Maggio 2012. Available at:

< www.va.minambiente.it/File/Documento/73054 >

Ricci S. Systematic approach to functional requirements for future freight terminals. In: *Transport Research Arena [online]*. 2014, Paris. 2014. Available at: <http://tra2014.traconference.eu/papers/pdfs/TRA2014_Fpaper_18294.pdf>

Ricci, Stefano ; Marinacci, Cristiano ; Rizzetto, Luca. The Modelling Support to Maritime Terminals Sea Operation: The Case Study of Port of Messina. In: *Journal of Maritime Research [online]*, 2012, Vol. IX. No. 3, p. 39 – 44. Available at: <<http://www.jmr.unican.es/index.php/jmr/article/view/190>>

Terminal container d'altura di Venezia – Autorità Portuale di Venezia – Direzione pianificazione strategica e sviluppo. In: *Relazione illustrativa*, vol. 1-2-3; Venezia 22 Marzo 2012.

Croatian maritime ports capacity, services and development plans

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Croatian Bureau of Statistics [online]. Available at: <<http://www.dzs.hr/default.htm>>

Bichou, Khalid. ; Jolić, Natalija. *Croatian Maritime Strategy*. Croatia : Safege, Ministry of Maritime Affairs, Transport and Infrastructure, 2013.

Monions J, Wilmsmeir G. Giving a Direction to a Port Regionalisation. In: *Transportation Research [online]. Part A: Policy and Practise*. 2012, vol. 46, no. 10, p`. 1551-1561. Available at:

<<http://www.sciencedirect.com/science/article/pii/S096585641200119X>>

Port of Rijeka Authority. [online]. Available at:
<http://www.portauthority.hr/portfolio/o_luckoj_upravi_rijeka>

County Port of Authority of Zadar. [online]. Available at:
<<http://www.cpa-zadar.hr/en/port-authority>>

Port of Šibenik Authority. [online]. Available at: <<http://www.portauthority-sibenik.hr>>

Port of Split Authority [online]. Available at: <<http://portsplit.com>>

Port of Ploče Authority. [online]. Available at:
<<http://www.apcwindow.eu/en/port-plo%C4%8De-authority>>

Port of Dubrovnik Authority. [online]. Available at:
<<http://www.portdubrovnik.hr>>

Notteboom T. E, Winklemans W. Structural changes in logistics: how will port authorities face the challenge?. In: *Maritime Policy and Management* [online], 2001, vol. 28, no. 1, p. 71-89. Restricted access:
<<http://www.tandfonline.com/doi/abs/10.1080/03088830119197>>

Notteboom T. E, Complementarity and substitutability among adjacent container ports. In: *Environmental and Planning A*, [online], 2009, vol. 41, p. 743-762. Available at: <www.vliz.be/imisdocs/publications/248343.pdf>

Olivier D. ; Slack B. Rethinking the port. In : *Environmental and Planning A*, [online]. 2006, vol. 38, no. 8, p. 1409-1427. Restricted access:
<<http://epn.sagepub.com/content/38/8/1409.abstract>>

The influence of ports on Catalonia's development

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Box, G. ; Jenkins, G. ; Reinsel, G. *Time Series Analysis. Forecasting and Control*. 4th. ed. Hoboken, New Jersey: Wiley, 2008. Available at UPC:
<http://cataleg.upc.edu/record=b1334808~S1*cat>

Cryer, J.D.; Chan, K-S. *Time Series Analysis: with Applications in R*. [online]. 2nd. ed. Berlin: Springer Texts in Statistics, 2008. Available only to UPC users:
<http://cataleg.upc.edu/record=b1465298~S1*cat>.

Enríquez Argós, F. *El Plan estratégico: un instrumento para la gestión portuaria*. 2nd. ed. Valencia: Fundación Instituto Portuario de Estudios y Cooperación de la Comunidad Valenciana, 2000. Available at UPC: <http://cataleg.upc.edu/record=b1134680~S1*cat>

Martí-Recober, M. ; Muñoz Gracia, M.P. *Previsió i sèries temporals: mètodes empírics, models ARIMA, metodologia i casos*. Barcelona: Universitat Politècnica de Catalunya, Departament d'Estadística i Investigació Operativa, 2001. Available at UPC: <http://cataleg.upc.edu/record=b1238167~S1*cat>

Olivella Cruset, J. *La influència dels ports en el desenvolupament de Catalunya : els ports de Barcelona i Tarragona. Els plans estratègics i el tràfic portuari: una comparativa amb d'altres ports de la Unió Europea*. [online]. Barcelona: UPC, 2016. Dissertation Universitat Politècnica de Catalunya. Available at: <<http://tdx.cat/handle/10803/385112>>

Rodríguez García, T. ; González Cancelas, N. ; Soler-Flores, F. Forecasting models in ports transport systems : Are ANNs applications the solution?. In: *The 2nd Electronic International Interdisciplinary Conference EIIC* [online], 2013. Zilina, Slovakia: EDIS, 2013, chapter 23 Transport and Logistics, p.509 - 514. Available at: <www.eiic.cz/archive/?vid=1&aid=3&kid=20201-29>

Drafting maritime policies in developing countries – the case of latin-american countries - coherency between national economic policies and maritime policy writing objectives

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Abrahamsson, Gernhard J. *International ocean shipping: current concepts and principals*. Boulder, CO : Westview press, 1980. Available at Worldcat: <<http://www.worldcat.org/oclc/5846540>>

Alderton , P. M. *Sea Transport : operations and economics*. 3rd. Edition. London: Reed, 1984. Available at Worldcat: <<http://www.worldcat.org/oclc/901871826>>

American Association of Port Authorities. *II Latin American Meeting*. Buenos Aires, 11 - 13 August 1993.

American Association of Port Authorities. *II Latin American Meeting, Conclusions*, Buenos Aires, 11 - 13 August 1993.

Baudelaire, J.G. *Port administration and management*. Tokio, Japan : IAPH, 1986. Available at Worldcat: <<http://www.worldcat.org/oclc/14984271>>

Beth, H.L. *Economics of regulation in shipping*. Bremen: ISL, 1984. Available at Worldcat: <<http://www.worldcat.org/oclc/10928223>>

Branch, A.E. *Elements of Shipping*. 6th.ed. London: Chapman and Hall, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/19553376>>

Bueno Campos, Eduardo. *Dirección estratégica de la empresa : metodología, técnicas y casos*. Madrid: Pirámide, 1993. Available at UPC: <http://cataleg.upc.edu/record=b1280185~S1*cat>

CAF. *Infraestructura, logística y sostenibilidad: temas estratégicos para la competitividad global*. Corporación Andina de Fomento, 2003.

CEPAL. *Cambios Estructurales en los Puertos y la Competitividad del Comercio Exterior de América Latina y el Caribe*. Santiago de Chile : Naciones Unidas, CEPAL, 1991. Available at Worldcat: <<http://www.worldcat.org/oclc/55323267>>

CEPAL. El ferrocarril en el comercio entre Brasil y sus vecinos del Cono Sur: el potencial de un mayor aprovechamiento. In: Boletín FAL. [online]. CEPAL, 2003. Ed. 205. Available at: <<http://bit.ly/1Ua93Kw>>

Chile and the Pacific. Embassy of Chile to Singapore, Report 1986.

Chilean Customs Service. *Statistical Bulletin*, 1988-2003

Chilean Maritime Chamber, *The Chilean port system: actions and policy through June 1993*. Valparaíso, CMC, 1993.

Cipoletta Tomassian, G. ; Sanchez, R.J. *La Industria del Transporte Marítimo y Las Crisis Económicas*. Santiago de Chile: CEPAL, 2010. Serie Recursos Naturales e Infraestructura : 149. Available at: <<http://bit.ly/1PqF64x>>

Coyle, J.J. ; Bardi, E.J. ; Langley, C.J. *The management of business logistics*. 5th. ed. St. Paul, Minn: West Publishing Company, 1992. Available at Catalan universities: <<http://bit.ly/1TXplE4>>

DIRECTEMAR. *Boletín Estadístico Marítimo*. Chile. Ediciones: 1980, 1990, 2000, 2012, 2013, 2014 and 2015.

Doerr, Octavio. *Políticas Portuarias*. [online]. CEPAL, 2011. Serie Recursos Naturales e Infraestructura , 159. Available at: <<http://repositorio.cepal.org/handle/11362/6360>>

ECLAC. *Maritime Profile of Latin American and Caribbean*. [online]. CEPAL. Transport Unit, 2003. Available at: <<http://bit.ly/21c3u0b>>

ECLAC. *Maritime Profile of Latin American and Caribbean*. CEPAL. Transport Unit, 2015.

ECLAC. *CEPALSTAT: bases de datos y publicaciones estadísticas*. 2014. Available at: <<http://bit.ly/1gcCYg9>>

Economic Commission for Latin America and the Caribbean, CEPAL. Latin-American Customs Service and Their Challenges in Facing the New Demands of International Trade . In: *FAL Bulletin*. 1993, no. 16 August – September.

Farthing, B. *International Shipping: an introduction to the policies, politics, and institutions of the maritime world*. 2nd. Edition. London: Lloyd's of London Press Ltd., 1993. Available at Worldcat: <<http://www.worldcat.org/oclc/948551813>>

Garcia, R. *Comparative analysis between the Port of Valparaíso and the Port of San Antonio: how maritime policy affects port development*. 1991. Bachelor Thesis World Maritime University.

Gobierno de la Provincia de San Luis. *Anteproyecto para el desarrollo de una zona de actividades logísticas - ZAL para la provincia de San Luis*. Argentina

Gobierno de Rosario. *Emprendimientos Regionales, Metropolitanos y Urbanos*. Argentina.

Goss, R. The economic functions of seaport. In: *Maritime policy and management*, 1990, vol. 17, no. 3. Restricted access: <<http://bit.ly/28Paazd>>

Hax, Arnoldo ; Majluf, Nicolas . *Gestión de empresa : con una visión estratégica*. Santiago de Chile: Ediciones Dolmen, 1994. Available at Spanish universities: <<http://catalogo.rebiun.org/rebiun/record/Rebiun08376926>>

Heideloff, Christel. *Ports of the Hamburg-Antwerp range : performance profiles under changing conditions*. Bremen: ISL, 1985. Available at Worldcat: <<http://www.worldcat.org/oclc/12829543>>

Hershman, M.J. *Urban Ports and Harbour Management : responding to change along U.S. waterfronts*. New York: Taylor and Francis, 1988. Available at Worldcat: <<http://www.worldcat.org/oclc/4658382164>>

Hoffmann, Jan ; Pérez, Gabriel ; Wilmsmeier, Gordon. *International trade and transport profiles of Latin American countries, year 2000*. [online]. Santiago de Chile: CEPAL, 2002. Available at: <<http://repositorio.cepal.org/handle/11362/5581>>

IIRSA. *Integración de la infraestructura regional en Sud América : facilitación del transporte en los pasos de frontera, síntesis y conclusiones*.

International Chamber of Commerce. Centre for Maritime Cooperation. *A Guide to Maritime Joint Ventures*. Paris: ICC, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/22694230>>

Luraschi, Néstor Hugo. *Diagnóstico del transporte internacional y su infraestructura en América del Sur (DITIAS): transporte carretero (Mercosur y Chile) : informe final*. [online]. Montevideo: Asociación Latino Americana de Integración, 2000. Available at: <<http://bit.ly/1UGgvdB>>

Manual de gestión de puertos. Bremen: ISL, 1979. Available at Worldcat: <<http://www.worldcat.org/oclc/256011849>>

Ministerio de Fomento de España. *Plataformas logísticas y centros de transporte de mercancías en España: Una visión de la situación actual y propuestas de intervención*. 1999.

Morris, M.A. *North-South perspectives on marine policy*. London: Westview Special Studies, 1988. Available at Worldcat: <<http://www.worldcat.org/oclc/16984782>>

Pattillo, A. *The role of ports in transportation : notes from the School of Transportation of the Catholic University*. Valparaiso, 1990.

Pattillo, A. Economic and Social Effects of Chilean National Port Legislation. In: *IV National Transport Engineering Congress*, Valparaiso, 1989.

Pattillo, A. *The port administration in Latin America : notes from the School of Transportation of the Catholic University*. Valparaiso, 1990.

Pérez Salas, Gabriel. *Seguridad de la cadena logística terrestre en América Latina*. Santiago de Chile: CEPAL, 2013. Serie Recursos Naturales e Infraestructura : 161. Available at: <<http://bit.ly/1ttKFLp>>

Perrotti, Daniel E. ; Sanches, Ricardo J. *La Brecha de Infraestructura en América Latina y el Caribe*. Santiago de Chile: CEPAL, Serie Recursos Naturales e Infraestructura : 153. Available at: <<http://idbdocs.iadb.org/wsdocs/getdocument.aspx?docnum=37809330>>

Peters, H.J. *Trends in global and Pacific trades and shipping and the implications for national maritime sector development in Asia's Pacific rim countries*. Bremen: ISL, 1986. Available at Worldcat: <<http://www.worldcat.org/oclc/15166010>>

Sánchez, Ricardo J. ; Cipoletta Tomassian, Georgina. *Identificación de obstáculos al transporte terrestre internacional de cargas en el Mercosur*. [online]. Santiago de Chile: CEPAL, 2003. Serie Recursos Naturales e Infraestructura : 54. Available at: <http://repositorio.cepal.org/bitstream/handle/11362/6423/S035296_es.pdf>

Sanchez, R.J. ; Wilmsmeier, G. *Maritime sector and ports in the Caribbean: the case of CARICOM countries*. Santiago de Chile: CEPAL, 2009. Serie Recursos Naturales e Infraestructura : 140. Available at: <<http://bit.ly/1rnj3pk>>

Soulodre, Ivan W. *Transporte Marítimo*. Valparaíso : Imprenta Almendral, 1982. *Maritime Policy and Management: the flagship journal of international shipping and port research*. [online]. London: Taylor and Francis, 1992-1993, vol. 19.1 - 21.3. Restricted access: <<http://www.tandfonline.com/loi/tmpm20#.V1kuRjWLTct>>

Sprout, R. Plebisch's Thoughts. In: *CEPAL Magazine*. [online]. Santiago, Chile: CEPAL, 1992, no. 46. Available at: <<http://repositorio.cepal.org/handle/11362/10395>>

Stopford, M. *Maritime economics*. London ; New York: Routledge, 1990 . Available at Worldcat: <<http://www.worldcat.org/oclc/212432568>>

Stuchtey, Rolf. *Port management textbook*. vol. 2. Bremen: ISL, 1991. Available at Worldcat: <<http://www.worldcat.org/oclc/34500487>>

Trabas legales impuestas a las plataformas logísticas. In: *Chile portuario : revista oficial de la Federación Nacional de Empleados Portuarios de Chile*. 2003, edición 13, Enero – Febrero

United Nations. Economic Commission for Latin America and the Caribbean. Transport and Communications Division. *The international common-carrier transportation industry and the competitiveness of the foreign trade of the countries of Latin-America and the Caribbean*. Santiago de Chile : Naciones Unidas, Comisión Económica para América y el Caribe, 1989. Cuadernos de la CEPAL, no. 64. Available at Worldcat: <<http://www.worldcat.org/oclc/20957402>>

Valparaíso y los armadores chilenos. Asociación Nacional de Armadores. Valparaíso: Ediciones Universitarias, 1989. Available at Worldcat: <<http://www.worldcat.org/oclc/25917289>>

SESSION 8: SHIPPING BUSINESS

Strategy assessment in investment of a dry bulk tanker

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Alizard, A. H. ; Nountios, N. An investigation into the effect of risk management on the profitability of shipping investment and operation. In: *International Book of Maritime Economics*. Chenttenham: Edward Elgar, 2011. ISBN: 9781847209337. Available at Spanish universities: <<http://catalogo.rebiun.org/rebiun/record/Rebiun09197619>> Available at Worldcat: <<http://www.worldcat.org/oclc/502422642>>

Ben Akiva, M. ; Lerman S. *Discrete choice analysis*. Cambridge: The MIT Press, 1985. ISBN: 0262022176. Available at UPC: <http://cataleg.upc.edu/record=b1094502~S1*cat> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/search?q=9780262022170>>

Cariou, P. M ; Wolf, F. C. *Shipowners' decisions to outsource vessel management [online] : document de travail*. Nantes: LEMNA, Université de Nantes, 2011. EA 4272. Available at: <<https://halshs.archives-ouvertes.fr/hal-00593739/document>>

Cascetta E. .*Transportation system engineering: theory and methods* [online]. Kluwer: Academic Publishers, 2001, 95-101. ISBN: 978-1-4757-6873-2 (Online) ISBN: 978-1-4757-6875-6 (Print). Restricted access: <<http://dx.doi.org/10.1007/978-1-4757-6873-2>>

Clarkson Research Serviced Limited (2013) *Oil & Tanker Trades Outlook*. London: Clarkson Research Studies, 1996- Available at Worldcat: <<http://www.worldcat.org/oclc/265214950>> Restricted access: <<http://www.crsi.com/acatalog/oil-and-tanker-trade-outlook.html>>

Fan, L. ; Luo, M. Analyzing ship investment behavior in liner shipping. In: *Maritime Policy & Management: The flagship journal of international shipping and port research* [online]. London: Routledge, 2013, Vol. 40, No. 6, p. 511-533. Restricted access: <<http://dx.doi.org/10.1080/03088839.2013.776183>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Frankel, E. G. Hierarchical logit in shipping policy decision-making. In: *Maritime Policy and Management* [online] : *the flagship journal of international shipping and port research*. London: Routledge, 1992, Vol. 19, No. 3, p. 211-221. Restricted access: <<http://www.tandfonline.com/doi/abs/10.1080/751248662>> Available at Spanish universities: <<http://bit.ly/28Pf78q>>

Greene W.H. (2002) *Nlogit* [online] : v.4.0 : *student reference guide*. Plainview: Econometric software, 2002. Available at: <<http://bit.ly/1S6Laiy>>

Haralambides H. E. The economics of bulk shipping pool. In: *Maritime Policy and Management* [online] : *the flagship journal of international shipping and port research*. London: Routledge, 1996, Vol. 23, No. 3, p. 221-237. Restricted access: <<http://dx.doi.org/10.1080/03088839600000085>> Available at Spanish universities: <http://rebiun.baratz.es/rebiun/record/Rebiun00260775>

Hensher, D. A. ; Rose, J. H. ; Greene W. H. *Applied Choice Analysis*. 2a ed. New York: Cambridge University Press, 2015. Available at Worldcat: <<http://www.worldcat.org/oclc/894816550>> Available at UPC: <https://cataleg.upc.edu/record=b1373160~S1*cat> (1st. ed. 2005)

Karakitsos, E. ; Varnavides L. *Maritime Economics: a macroeconomic approach*. [Basingstoke]: Palgrave MacMillan, 2014. Available at Worldcat: <<http://www.worldcat.org/oclc/881727916>>

Kavussanos, M. G. Business risk measurement and management in the cargo carrying sector of the shipping industry: an update. In: *The Handbook of Maritime Economics and Business* [online]. Edited by Costas Th. Grammenos. London: Lloyd 's List, 2010, chapter 25, ISBN: 9780203721636 (online) ISBN: 9781843118800 (print). Available at Worldcat: <<http://www.worldcat.org/oclc/505421217>> Restricted access: <<http://bit.ly/1UI2q8h>> Restricted access: <<http://www.tandfebooks.com/isbn/9780203721636>> Available at UPC: <https://cataleg.upc.edu/record=b1353388~S1*cat> (ed. 2002 ISBN: 9781843111955)

McFadden, D. Aggregate travel demand forecasting from disaggregated behavioural models. In: *Transportation Research Record* [online] : *travel behaviour and values*, 1975, No. 354, p. 24-37. Available at: <<http://bit.ly/1UI0GvH>>

Stopford, M. *Maritime Economics*. 3a ed. Routledge: Taylor and Francis, 2009. Available at UPC: <https://cataleg.upc.edu/record=b1353311~S1*cat>

The handbook of maritime economics and business. Edited by Costas Th. Grammenos. London: Lloyd's List, 2010. ISBN: 9781843111955. Available at UPC: <https://cataleg.upc.edu/record=b1353388~S1*cat>

Tsolakis, S. D. ; Cridland, C. ; Haralambides, H. M. Econometric modeling of second hand ship prices. In: *Research in transportation economics* [online]. Amsterdam, etc. : JAI, 2004, Vol. 12, p. 65-106. ISSN: 0739-8859. Available at: <<http://bit.ly/1U9admj>>
Available at UPC:
<https://cataleg.upc.edu/record=b1330790~S1*cat>

Analysis and strategy of Barcelona's Port in the Project Horizon 2020

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Autoridad Portuaria de Barcelona. Port de Barcelona: estadísticas. In: *Port de Barcelona* [online]. [Barcelona]: Port de Barcelona, 2016. Available at: <<http://bit.ly/1sHDP4m>>

Autoridad Portuaria de Valencia. Foreland. In: *Valencia Port* [online]: *Profesionales*. [Valencia]: Valenciaport, 2012. Available at: <<http://bit.ly/24SGbsU>>

Autoritat Portuària de Tarragona. Port de Tarragona: estadístiques de tràfic Desembre 2015. In: Port de Tarragona. Available at: <<http://bit.ly/1tsEsPq>>

Breakdown of oil consumption by sector. In: *Global Petrol Prices.com* [online]. 7 October 2015. Available at: <<http://www.globalpetrolprices.com/articles/39/>>

Brinkhorst, L. J. *Mediterranean Work plan of the European Coordinator* [online]. Brussels: European Commission. Directorate General for Mobility and Transport, May 2015. Available at: <<http://bit.ly/1tyaTMX>>

Castells, A. Catalonia and Spain at the crossroads: financial and economic aspects. In: *Oxford Review of Economic Policy* [online]. Oxford: Oxford University Press, 2014,

Vol. 30, No. 2, p. 277-296. ISSN 1460-2121 (online), ISSN 0266-903X (print). Available at Catalan universities: <<http://bit.ly/27TGOHq>>
Restricted accès: <<http://dx.doi.org/10.1093/oxrep/gru022>>

Castells, M. ; Usabiaga, J. J. ; Martínez, F. Road and Maritime Transport Environmental Performance: Short Sea Shipping Vs Road Transport. In: *Journal Of Maritime Research* [online],2014, Vol. 9, No. 3, p. 45-54. ISSN: 1697-4840. Available at: <<http://bit.ly/1W19YiW>>

De Langen, P. W. ; Van Den Berg, R. ; Willeumier, A. A new approach to granting terminal concessions: the case of the Rotterdam World Gateway terminal. In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London: Routledge 2012, Vol. 39, No. 1, p. 79-90.
Restricted access: <<http://dx.doi.org/10.1080/03088839.2011.642311>>
<<http://repository.tue.nl/757655>> Available at Spanish universities:
<<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Deggim, H. Progress towards the development of an international polar code. In: *IMO Polar Workshop* [online] : *28 February 2014*. Available at: <<http://bit.ly/1UxnZDK>>

Frago, L. Logística y reestructuración metropolitana en el área de Barcelona. In: *Scripta Nova* [online] : *Revista Electrónica de Geografía y Ciencias Sociales*, 2015, Vol. 19, n. 523. Available at: <<http://www.ub.edu/geocrit/sn/sn-523.pdf>>

Global greenhouse gas emissions data : global emissions by gas. In: United States Environmental Protection Agency. *EPA Home* [online]. 2016. Available at: <<http://1.usa.gov/1MyKAbe>>

Guihery, L. ; Laroche, F. Hinterland Portuaire: le nouveau rôle du fer : une illustration avec la Betuweroute (Pays-Bas). In : *Region et Développement* [online]. Aix en Provence: L'Harmattan, 2015, No. 41, p. 163-173. Available at: <<http://bit.ly/1UeuD3y>>

HM Government. (2013). *Adapting to change* [online] : *UK policy towards the Arctic*. London: Polar Regions Department, Foreign and Commonwealth Office, 2013. Available at: <<http://bit.ly/1S6Tgru>>

Homsombat, W. [et al.]. Regional cooperation and management of port pollution. In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London: Routledge, 2013, Vol. 40, No. 5, p. 451-466. Restricted access: <<http://dx.doi.org/10.1080/03088839.2013.797118>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

IMO. International Code for Ships Operating in Polar Waters (Polar Code): MEPC 68/21/Add. 1. Annex 10. In: Marine Environment Protection Committee. *Report of the marine environment protection committee on its sixty-eight session* [online] : *MEPC 68/21*. London: IMO, 29 May 2015. Available at: <<http://bit.ly/1X6dvuk>>

IMO. *Third IMO GHG Study 2014* [online]. London: IMO, 2014. Available at: <<http://bit.ly/1OkLdN3>>

Lam, J. S. L. ; Gu, Y. Port hinterland intermodal container flow optimisation with green concerns: a literature review and research agenda. In: *International Journal of Shipping and Transport Logistics*, 2013, Vol. 5 No. 3, p. 257-281. Available at: <<http://bit.ly/1YtLBuX>>

Lee, S. W. ; Song, J. M. (2014). Economic Possibilities of Shipping through Northern Sea Route. *The Asian Journal of Shipping and Logistics* [online]. [Gwangyang : Korean Association of Shipping and Logistics](http://www.gwangyang.org), 2014, Vol. 30, No. 3, p. 415-430. ISSN: 2092-5212 Available at: <<http://dx.doi.org/10.1016/j.ajsl.2014.12.009>>

Martínez Pardo, A. ; García Alonso, L. ; Viñuela Jiménez, A. El área de influencia de los puertos españoles: propuesta para su delimitación y análisis. In: International Conference on Regional Science. *XXXVIII Reunión de Estudios Regionales* [online]. [Barcelona]: Asociación Española de Ciencia Regional (AECR), 2012. Available at: <<http://bit.ly/1PvwZnv>>

Martínez, C. M. ; Pereira, F. B. ; De Sabando, V. I. L. Análisis económico del Corredor Ferroviario Mediterráneo en el marco de la Red Transeuropea de Transporte. *RUE* [online] : *Revista universitaria europea*. Madrid: AUDESCO, 2014, No. 20, p. 49-72. ISSN: 1139-5796. Available at: <<http://www.revistarue.eu/RUE/022014.pdf>>

Merk, O. ; Comtois, C. Competitiveness of Port-Cities: the Case of Marseille-Fos, France. In: *OECD Regional Development Working Papers 2012/11* [online]. OECD Publishing, 2012. Available at: <<http://bit.ly/1XrjFYT>>

Olaf, M. E. R. K. (2015). The Mediterranean Port-City economy: the Cases Of Marseille And Mersin. In: *Region et Développement* [online]. Aix en Provence: L'Harmattan, 2015, No. 41, p. 9-32. Available at: <<http://bit.ly/1UX3A6W>>

Port of Marseille Fos' final figures. In: Marseille Fos Port Authority, *Marseille Fos Port* [online]. 2016. Available at: <<http://bit.ly/21ogkxb>>

Port of Rotterdam. Facts & Figures about the port: a wealth of information. In: *Port of Rotterdam online* [online] : get informed : stay ahead. [Rotterdam: Port of Rotterdam, 2016]. Available at: <<http://bit.ly/1laRIEp>>

Port productivity. In: JOC [online] : *the journal of commerce*. JOC Group Inc., 2016. Available at: <<http://www.joc.com/special-topics/port-productivity>>

Puerto de Barcelona: el tráfico ferroviario de contenedores en el Puerto de Barcelona sube un 12%. In: *La Vanguardia* [online]. [Barcelona]: La Vanguardia ediciones, 30.12.2015. Available at: <<http://bit.ly/2654NkM>>

Rodrigue, J. P. : Comtois, C. ; Slack, B. *The geography of transport systems*. 3a ed. London : Routledge, 2013. ISBN: 9780415822541. Available at UPC: <https://cataleg.upc.edu/record=b1475178~S1*cat>

Sciberras, E. A. [et al.]. Cold ironing and onshore generation for airborne emission reductions in ports. In: *Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment* [online]. Newcastle upon Tyne:

Newcastle University e-prints, 2016, Vol. 230, No. 1, p. 67-82. Available at: <<http://bit.ly/1UeAFRL> >

Smith, L. C. ; Stephenson, S. R. New Trans-Arctic shipping routes navigable by midcentury. *Proceedings of the National Academy of Sciences of the United States of America* [online]. Ohio: Ellen S. Mosley-Thompson, 2013, Vol. 110, No. 13, E1191-E1195.

Available at: <<http://dx.doi.org/10.1073/pnas.1214212110>>

Stephenson, S. R. [et al.] Projected 21st-century changes to Arctic marine access. In: *Climatic Change*, 2013, Vol. 118, No. 3, p. 885-899. Available at: <<http://dx.doi.org/10.1007/s10584-012-0685-0>>

Transport. In: *European Commission* [online] : *competition*. 2015 Available at: <<http://ec.europa.eu/competition/sectors/transport/overview.html>>

UNCTAD. *Review of Maritime transport 2015* [online]. New York, Geneva: United Nations, 2015.

Available at: <http://unctad.org/en/PublicationsLibrary/rmt2015_en.pdf>

Van den Berg, R. ; De Langen, P. W. ; Costa, C. R. The role of port authorities in new intermodal service development : the case of Barcelona Port Authority. In: *Research in Transportation Business & Management* [online]. Amsterdam, etc. : Elsevier, 2012, No. 5, p. 78-84. ISSN: 2210-5395. Available at:

<<http://dx.doi.org/10.1016/j.rtbm.2012.11.003>> Available at UPC: <https://cataleg.upc.edu/record=b1404642~S1*cat>

Risk management in maritime business: a qualitative study on managerial decision making of ship owning company managers

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Aharoni, Y. ; Tihanyi, L. ; Connelly, B. L. Managerial decision-making in international business: a forty-five-year retrospective. In: *Journal of world business* [online]. [Greenwich, CT: JAI Press](http://www.jwb.com), 2011, Vol. 46, No. 2, p. 135–142. ISSN: 1090-9516. Available at: <<http://dx.doi.org/10.1016/j.jwb.2010.05.001>>

Aven T. Practical Implications Of The New Risk. In: *Perspectives. Reliability engineering and system safety* [online]. [Barking: Elsevier Applied Science](http://www.elsevier.com/locate/bsc), 2013, Vol. 115, p. 136–145. ISSN: 0951-8320. Available at: <<http://dx.doi.org/10.1016/j.res.2013.02.020>>

Available at UPC: <https://cataleg.upc.edu/record=b1243178~S1*cat>

Aven, T. ; Krohn, B. S. A new perspective on how to understand, assess and manage risk and the unforeseen. In: *Reliability engineering and system safety* [online]. [Barking: Elsevier Applied Science](#), 2014, Vol. 121, p. 1-10. ISSN: 0951-8320. Available at: <http://dx.doi.org/10.1016/j.ress.2013.07.005>

Berle, O. ; Jornslett, B. ; Rice, J. B. Formal vulnerability assessment of a maritime transportation system. In: *Reliability engineering and system safety* [online]. [Barking: Elsevier Applied Science](#), 2011, Vol. 96, p. 696-705. ISSN: 0951-8320. Available at: <http://bit.ly/1tzS3oy> Available at UPC: https://cataleg.upc.edu/record=b1243178~S1*cat

Blankenship, L. V. ; Miles, R. E. Organizational structure and managerial decision behavior. In: *Administrative science quarterly* [online]. Thousand Oaks: Sage Publications, 1968, Vol. 13, No. 1, p. 106-120. Available at UPC: https://www.jstor.org/stable/2391263?seq=1#page_scan_tab_contents

Celik, M. ; Lavasani, S. M. ; Wang, J. A. Risk-Based modelling approach to enhance shipping accident investigation. In: *Safety Science* [online]. Amsterdam, etc. : Elsevier, 2010, Vol. 48, No. 1, p.18–27. ISSN: 0925-7535. Available at: <http://dx.doi.org/10.1016/j.ssci.2009.04.007>

Chauvin, C. ; Lardjane, S. Decision making and strategies in an interaction situation : collision avoidance at sea. In: *Transportation Research Part F* [online] : *traffic psychology and behaviour*. Exeter: Pergamon, 2008, Vol. 11, No. 4, p.259–269. ISSN: 1369-8478. Available at: <http://dx.doi.org/10.1016/j.trf.2008.01.001>

Chauvin, C. Human factors and maritime safety. In: *The Journal of Navigation* [online]. London: Royal Institute of Navigation, 2011, Vol. 64, No. 4, p. 625–632. ISSN: 1469-7785 (online) ISSN: 0373-4633 (print). Available at UPC: https://cataleg.upc.edu/record=b1246503~S1*cat

Chauvin, C. [et al.]. Human and organisational factors in maritime accidents: analysis of collisions at sea using the HFACS. In: *Accident analysis and prevention* [online]. Oxford, etc.: Pergamon Press, 2013, Vol. 59, p. 26-37. ISSN: 0001-4575. Available at: <http://dx.doi.org/10.1016/j.aap.2013.05.006>

Dimitratos, P. [et al.]. Strategic decision-making processes in internationalization : does national culture of the focal firm matter?. In: *Journal of world business* [online]. Greenwich, etc.: JAI Press, 2011, Vol. 46, No. 2, p. 194-204. ISSN: 1090-9516. Available at: <http://dx.doi.org/10.1016/j.jwb.2010.05.002>

Ek, A. ; Akselsson, R. Safety culture on board six swedish passenger ships In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research* [online]. London: Routledge, 2005, Vol. 32, No. 2, p. 159-176. Restricted access: <http://dx.doi.org/10.1080/03088830500097455> Available at Spanish universities: <http://rebiun.baratz.es/rebiun/record/Rebiun00260775>

Erven, B. L. The role of human resource management in risk management. In: *Extension* [Online]. 2012, 9 July. Available at: <http://bit.ly/28RVqkt>

Fan, Y. *Application of risk-based decision making on planning VTS*. Malmö : World Maritime University, 2005. Available at: <<http://bit.ly/1ZVEv0E>> Dissertation World Maritime University, Sweden

Fernandez-Muniz, B. F. ; Montes-Peon, J. M. ; Vazquez-Ordas, C. J. Safety climate in OHSAS 18001-certified organisations: antecedents and consequences of safety behavior. In: *Accident Analysis And Prevention* [online]. Oxford, etc. : Pergamon Press, 2012, Vol. 45, p. 745-758. ISSN: 0001-4575. Available at: <<http://www.sciencedirect.com/science/article/pii/S0001457511002892>>

Flick, U. *An introduction to qualitative research*. London: Sage, 1998. ISBN: 978-1-84787-323-1. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b2333804~S23*cat> Available at: <http://www.dphu.org/uploads/attachements/books/books_89_0.pdf > (4th. Ed., 2009, online).

Ford, C. M. ; Gioia, D. A. Factors influencing creativity in the domain of managerial decision making. In: *Journal of Management*. Greenwich: JAI Press, 2000, Vol. 26, No. 4, p. 705–732. Available at UPC: <https://cataleg.upc.edu/record=b1208509~S1*cat>

Green, K. W. ; Twigg, N. W. Managerial Decision Making Under Chaotic Conditions: service industries. In: *Emergence* [online] : *Complexity & Organization*. Litchfield Park: Emergence Publications, 2014, Vol. 16, No. 3, p. 18-30. Available at: <<http://bit.ly/1slX915>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00369855> >

Goerlandt, F. ; Montewka, J. Maritime transportation risk analysis: review and analysis insight of some foundational issues. In: . *Reliability engineering and system safety* [online]. *Barking: Elsevier Applied Science*, 2015, Vol. 138, p. 115–134. ISSN: 0951-8320. Available at: <<http://dx.doi.org/10.1016/j.ress.2015.01.025>> Available at UPC: <https://cataleg.upc.edu/record=b1243178~S1*cat>

Goulielmos, A. M. ; Goulielmos, M. A. The accident of M/V Herald Of Free Enterprise. In: *Disaster prevention and management* [online]: *an international journal*. Bradford: MCB University Press, 2005, Vol. 14, No. 4, p. 479-492. ISSN: 0965-3562. Available at UPC: <https://cataleg.upc.edu/record=b1206345~S1*cat>

Guldenmund F. (Mis)Understanding safety culture and its relationship to safety management. In: *Risk analysis* [online]. Dordrecht: Kluwer Academic Publisher, 2010, Vol. 30, No. 10, p. 30-10. ISSN: 1539-6924 Available at: <<http://dx.doi.org/10.1111/j.1539-6924.2010.01452.x>> Available at UPC: <https://cataleg.upc.edu/record=b1381040~S1*cat>

Harrald, J. R. ; Marcus, H. S. ; Wallace, W. A. The EXXON Valdez: an assessment of crisis prevention and management Systems. In: *Interfaces* [online]. Baltimore: Institute of Management Sciences, 1990, Vol. 20, No. 5, p. 14-30. Restricted access: <<http://dx.doi.org/10.1287/inte.20.5.14>> Available at UPC: <https://cataleg.upc.edu/record=b1000661~S1*cat> (print)

Havold, J. I. Culture in maritime safety. In: *Maritime Policy & Management [online] : the flagship journal of international shipping and port research*. London: Routledge, 2000, Vol. 27, No. 1, p. 79-88. Restricted access: <<http://dx.doi.org/10.1080/030888300286716>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Havold, J. I. Safety-culture in a norwegian shipping company. In: *Journal of safety research [online]*. Chicago: National Safety Council, 2005, Vol. 36, No. 5, p. 441 – 458. ISSN: 0022-4375. Available at: <<http://dx.doi.org/10.1016/j.jsr.2005.08.005>>

Hetherington, C. ; Flin, R. ; Mearns, K. Safety in shipping: the human element In: *Journal of safety research [online]*. Chicago: National Safety Council, 2006, Vol. 37, No. 4, p. 401-411. ISSN: 0022-4375. Available at: <http://dx.doi.org/10.1016/j.jsr.2006.04.007>

Hopkins, A. Studying organisational cultures and their effects on safety. In: *Safety Science [online]*. Amsterdam, etc.: Elsevier, 2006, Vol. 44, No. 10, p. 875-889. ISSN: 0925-7535. Available at: <<http://dx.doi.org/10.1016/j.ssci.2006.05.005>>

Horck, J. An analysis of decision-making processes in multicultural maritime scenarios. In: *Maritime Policy & Management [online] : the flagship journal of international shipping and port research*. London: Routledge, 2004, Vol. 31, No. 1, p. 15-29. Restricted access: <http://dx.doi.org/10.1080/03088830310001642021>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Klein, G. Naturalistic Decision Making. In: *Human factors*, 2008, Vol. 50, No. 3, p. z56-460. Available at UPC: <https://cataleg.upc.edu/record=b1428123~S1*cat> Available at: <http://www.ise.ncsu.edu/nsf_itr/794B/papers/Klein_2008_HF_NDM.pdf> (Golden anniversary special issue)

Kontogiannis, T. A Contemporary view of organizational safety: variability and interactions of organizational processes. In: *Cognition, Technology & Work [online]*. London: Springer-Verlag, 2010, Vol. 12, No. 4, p. 231–249. ISSN: 1435-5566 (Online). ISSN: 1435-5558 (Print) . Available at UPC: <https://cataleg.upc.edu/record=b1256313~S1*cat>

Lipshitz, R. ; Strauss, O. Coping with uncertainty: a naturalistic decision-making analysis. In: *Organizational behavior and human decision processes [online]*. New York: Academic Press, 1997, Vol. 69 No.2, p. 149–163. ISSN: 0749-5978. Available at: <<http://dx.doi.org/10.1006/obhd.1997.2679>>

Lois, P. [et al.]. Formal safety assessment of cruise ships. In: *Tourism Management [online]*. Guildford: Butterworth Scientific, 2004, Vol. 25, No.1, p. 93-109. ISSN: 0261-5177. Available at: <[http://dx.doi.org/10.1016/S0261-5177\(03\)00066-9](http://dx.doi.org/10.1016/S0261-5177(03)00066-9)>

Lua, C.S. [et al.] Effects of national culture on human failures in container shipping: the moderating role of confucian dynamism. In: *Accident analysis and prevention [online]*. Oxford, etc.: Pergamon Press, 2012, Vol. 49, p. 457-469. ISSN: 0001-4575. Available at: <<http://dx.doi.org/10.1016/j.aap.2012.03.018>>

Manuj, I. ; Mentzer, J. T. Global supply chain risk management strategies. In: *International journal of physical distribution & logistics management* [online]. Bradford: MCB University Press, 2008, Vol. 38, No. 3, p. 192-223. ISSN: 0960-0035. Available at UPC: <https://cataleg.upc.edu/record=b1208208~S1*cat>

March, J. G. ; Shapira, Z. Managerial perspectives on risk and risk taking. In: *Management science* [online]. Providence, etc.: Institute of Management Sciences, 1987; 33-11, 1404-1418. Available at UPC: <https://cataleg.upc.edu/record=b1000267~S1*cat> (print), Restricted access: <<http://www.jstor.org/stable/2631920>>

Martinsons, M. G. ; Davison, R. M. Strategic decision making and support systems: comparing American, Japanese and Chinese management In: *Decision Support Systems* [online]. Amsterdam : Elsevier, 2007, Vol. 43, No. 1, p. 284–300. ISSN: 0167-9236. Available at: <<http://dx.doi.org/10.1016/j.dss.2006.10.005>> Available at UPC: <https://cataleg.upc.edu/record=b1208101~S1*cat>

Massingham, P. Knowledge risk management: a framework. In: *Journal of knowledge managemen. Emerald*. Bingley: Emerald, 2010, Vol. 14, No. 3, p. 464-485. ISSN: 1367-3270. Available at UPC: <https://cataleg.upc.edu/record=b1216680~S1*cat> Restricted access: <<http://dx.doi.org/10.1108/13673271011050166>>

Merrick JRW, Dorp JRV. Speaking The Truth. In Maritime Risk Assessment. *Risk analysis* [online]. Dordrecht: Kluwer Academic Publisher, 2006, Vol. 26, No. 1, p. 223-237. ISSN: 1539-6924. Available at: <<http://dx.doi.org/10.1111/j.1539-6924.2006.00708.x>> Available at UPC: <https://cataleg.upc.edu/record=b1381040~S1*cat>

Montewka, J. ; Pentti Kujala, G. On a systematic perspective on risk for Formal Safety Assessment (FSA). In: *Reliability engineering and system safety* [online]. Barking: Elsevier Applied Science, 2014, Vol. 127, p. 77–85. ISSN: 0951-8320. Available at: <<http://dx.doi.org/10.1016/j.ress.2014.03.009>> Available at UPC: <https://cataleg.upc.edu/record=b1243178~S1*cat>

Montewka, J. [et al.]. A framework for risk assessment for maritime transportation systems: a case study for open sea collisions involving RoPax vessels. In: *Reliability engineering and system safety* [online]. Barking: Elsevier Applied Science, 2014, Vol. 124, p. 142-157. ISSN: 0951-8320. Available at: <<http://dx.doi.org/10.1016/j.ress.2013.11.014>> Available at UPC: <https://cataleg.upc.edu/record=b1243178~S1*cat>

Nadrljanski, M. ; Bozic, R. ; Batinica, V. Methods of risk management in maritime activities as a function of sustainable development. In: *International journal of intelligent defence support Systems* [online]. [Olney]: Inderscience Enterprises, 2010, Vol. 3, p. 1-13. Available at: <<http://bit.ly/1VjWGxC>> Available at Worldcat: <<http://www.worldcat.org/oclc/465223356>>

Neuman, W. L. *Social research methods: qualitative and quantitative approaches*. Harlow: Pearson Education, 2014. ISBN: 9781292020235. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b6205755~S23*cat>

Oltedal, H. ; Wadsworth, E. Risk perception in the Norwegian shipping industry and identification of influencing factors. In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London: Routledge, 2010, Vol. 37, No. 6, p. 601-623. Restricted access: <<http://dx.doi.org/10.1080/03088839.2010.514954>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Oltedal, H. A. *Safety culture and safety management within the Norwegian-controlled shipping industry* [online] : *state of art, interrelationships, and influencing factors*. Stavanger: University of Stavanger, 2011. ISBN: 978-82-7644-464-3 . Available at: <<https://brage.bibsys.no/xmlui/bitstream/id/181997/PhD>> Dissertation University of Stavanger, Faculty of Social Sciences.

Pompian, M. M. *Behavioral finance and wealth management* [online] : *how to build optimal portfolios that account for investor biases*. Hoboken: John Wiley & Sons, 2006. ISBN: 13 978-0-471-74517-4. Available at: <<http://bit.ly/1sRBdRZ>>

Reason, J. Human error: models and management. In: *BMJ* [online]. [London]: BMA. British Medical Association, 2000, No. 320, p. 768. Available at: <<http://dx.doi.org/10.1136/bmj.320.7237.768>>

Riabacke, A. Managerial decision making under risk and uncertainty. In: *International Journal Of Computer Science (IJCSI)* [online]. Mahebourg: IJCSI, 2006, Vol. 32, No. 4. ISSN: 1694-0784 (online) ISSN: 1694-0814 (print). Available at: <<http://bit.ly/28lj2r9>>

Rode, D. *Managerial decision making* [online] : *normative and descriptive interactions*. [Pittsburgh]: Carnegie Mellon University, Department of Social and Decision Sciences, 1997. Available at: <<http://bit.ly/28lkdW5>>

Sayegha, L. ; Anthony, W. P. ; Perrewe, P. L. Managerial decision-making under crisis: the role of emotion In an intuitive decision process. In: *Human resource management review* [online]. Greenwich: JAI Press, 2004, Vol. 14, No. 2, p. 179–199. ISSN: 1053-4822. Available at: <<http://dx.doi.org/10.1016/j.hrmr.2004.05.002>>

Simons, R. H. ; Thompson, B. M. Strategic Determinants: the context of managerial decision making. In: *Journal of managerial psychology* [online]. 1998, Vol. 13, No. 1-2, p. 7-21. Restricted access: <<http://dx.doi.org/10.1108/02683949810369093>>

Soares, C. G. ; Teixeira, A. P. Risk assessment in maritime transportation. In: *Reliability engineering and system safety* [online]. [Barking: Elsevier Applied Science](#), 2001, Vol. 74, p. 299-309. ISSN: 0951-8320. <[http://dx.doi.org/10.1016/S0951-8320\(01\)00104-1](http://dx.doi.org/10.1016/S0951-8320(01)00104-1)> Available at UPC: <https://cataleg.upc.edu/record=b1243178~S1*cat>

Tannenbaum, R. Managerial decision-making. In: *The journal of business of the University Of Chicago* [online]. Chicago: University of Chicago Press, 1950, Vol. 23, No. 1, p. 22-39. ISSN: 0740-9168. Available at UPC: <http://cataleg.upc.edu/record=b1263244~S1*cat>

Theotokas, I. Organizational and managerial patterns of Greek-owned shipping companies and the internationalization process from the Post-war period to 1990. In: Starkey, E. D.J. ; Harlaftis, G. *Global markets: the internationalization of the sea transport industries since 1850*. St. John's, Newfoundland: International Maritime Economic History Association, 1998, p. 303-318. Research In Maritime History, 14. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b2296842~S23*cat>
Available at Worldcat: <<http://www.worldcat.org/oclc/40766730>>

Tversky, A. ; Kahneman, D. Judgment under uncertainty: heuristics and biases. In: *Science* [online]. [New York]: American Association for the Advancement of Science, 1974, Vol. 185, No. 4157, p. 1124-1131.
Available at UPC: <http://cataleg.upc.edu/record=b1213356~S1*cat>

Wang, J. Maritime risk modelling and decision making. In: *Quality and reliability engineering International* [online]. Hoboken : John Wiley & Sons, 2006, No. 22, 1-2. ISSN: 1099-1638. Available at: <<http://onlinelibrary.wiley.com/doi/10.1002/qre.743/pdf>>

Xli, K. ; Cullinane, K. An economic approach to maritime risk management and safety regulation. In: *Maritime Economics & Logistics* [online]. Basingstoke: Palgrave, 2003, No. 5, p. 268–284. ISSN: 1479-2931. Available at: <<http://bit.ly/249pNE9>>
Available at UPC: <http://cataleg.upc.edu/record=b1407125~S1*cat>

Zohar, D. Safety climate in industrial organizations: theoretical and applied implications. In: *Journal of applied psychology* [online]. [Washington]: American Psychological Association (APA), 1980, Vol. 65, No. 1, p. 96-102. ISSN: 1939-1854 (online). ISSN: 0021-9010 (print). Available at: <<http://dx.doi.org/10.1037/0021-9010.65.1.96>>
Available at: <<http://bit.ly/28lycwn>>

Zsidisin , G. A. *Supply chain risk: a handbook of assessment, management, and performance*. New York, NY: Springer, 2009. Available at Catalan universities: <<http://bit.ly/1TYFp88>> Available at Worldcat: <<http://www.worldcat.org/oclc/699141768>>

Interviews:

Manager S. Bulk Shipping Company 1. (2016, February 22). Personal interview.

Manager I. Bulk Shipping Company 2. (2016, February 25). Personal interview.

Manager U. Container Line Company 1. (2016, February 23). Personal interview.

Manager A. Container Line Company 2. (2016, February 22). Personal interview.

Manager T. Container Line Company 3. (2016, February 24). Personal interview.

Manager Y. Container Line Company 4. (2016, February 23). Personal interview.

Manager K. Container Line Company 5. (2016, February 25). Personal interview.

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Espanya. Dirección General de la Marina Mercante. *Lista Oficial de los Buques de Guerra y Mercantes de la Marina Española, con sus señales correspondientes según el Código Internacional de Señales*. Madrid: Dirección de Hidrografía, 1875.

Author's note: It has been used the 1875 edition because that year agrees with the data of one of the years taken by the author from the newspaper (exactly those ones are the last quarter of 1792 –because the newspaper appeared on 1 October–, and all the years ended with 0 or 5 since 1795 to 1900). The mentioned Principality is Catalonia, and it is formed by four northeastern provinces of Spain, along the French border, which at present form the Generality of Catalonia.

The goods evidence that the port was for quarantine.

¹ Quarantine in Mahón

¹ Quarantine in Mahón.

¹ Quarantine in Mahón.

¹ The source of this paragraph is omitted because there are many historians and professors which have written about that subject, so the list would be excessively long. On the other hand, it is easily available in any book dealing about this topic.

Cruise traffic seasonality on Western Mediterranean ports

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Aguiló, E. ; Sastre, A. La medición de la estacionalidad del turismo: el caso de Baleares In: *Estudios Turísticos* [online]. [Madrid] : [Ministerio de Economía y Competitividad](#): Instituto de Estudios Turísticos, 1984, No. 81, p. 79-88. ISSN: 0423-5037. Available at: <<http://bit.ly/28IBzDj>>

Baron, R. R. V. Seasonality in tourism : part I In: *International Tourism Quarterly*. [London] : Economist Intelligence Unit, 1973; No. 1, p. 51-67. Available at Worldcat: <<http://www.worldcat.org/oclc/1910939>>

Baron, R. R. V. *Seasonality in tourism: a guide to the analysis of seasonality and trends for policy making*. London: Economist Intelligence Unit; 1975. (EIU technical series, 2.). Available at Worldcat: <<http://www.worldcat.org/oclc/2793038>>

Bender, O. ; Schumacher, K. P. ; Stein, D. Measuring seasonality in Central Europe's tourism : how and for what? In: *CORP. Proceedings of the 10th International Conference on Information & Communication Technologies (ICT) in urban planning and spatial*

development and impacts of ICT on physical space [online] : Wien, February 22–25, 2005. Wien: Technische Universität Wien, 2005, p. 303-309. Available at: <http://www.corp.at/archive/CORP2005_BENDER.pdf>

Biederman, P. S. *Travel and tourism: an industry primer*. Upper Saddle River : Pearson Education, 2008. ISBN: 978-0131701298. Available at Spanish universities: <<http://catalogo.rebiun.org/rebiun/record/Rebiun14623329>> Available at Worldcat: <<http://www.worldcat.org/oclc/80180872>>

Billows, N. Multi-use of cruise terminals and financing In: *American Association of Port Authorities. Proceedings of the 2013 APA Cruise Seminar* [online] : San Francisco, April 24, 2013. Available at: <<http://bit.ly/1sSGo3W>>

Butler, R. W. Seasonality in tourism: issues and implications In: *Tourism: a state of the art*, edited by A. V. Seaton. Chichester : Wiley, 1994, p. 332–339. ISBN: 978-0471950929. Available at Worldcat: <<http://www.worldcat.org/oclc/30028035>> Bibliography available at: <<http://jybingipu.ru/vogurumazewi.pdf>>

Cellini, R. ; Rizzo, G. *Private and public incentive to reduce seasonality: a theoretical model*. In: *Economics: The Open-Access, Open-Assessment E-Journal* .[online]. 2012, vol. 6, no. 2012-43, p. 1-33. Available at: <<http://dx.doi.org/10.5018/economics-ejournal.ja.2012-43>>

Chung, J. Y. Seasonality in tourism: A review. In: *e-Review of Tourism Research* [online]. e-RTR. College Station: Dept. of Recreation, Park and Tourism Sciences, Texas A & M University, 2009, vol. 7, no. 5, p. 82–96. ISSN:1941-5842. Available at: <<http://bit.ly/1seN2AW>>

CLIA [online] : Cruise Lines International Association. Washington : CLIA, 2015. Available at: <<http://www.cruising.org/cruise-vacationer>>

Cooper, C. [et al.]. *Tourism: Principles and practice*. 4th. ed. Harlow: Pearson Education Limited; 2008. Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun02094072>> Available at Worldcat: <<http://www.worldcat.org/oclc/192079940>> (Enhanced Media Edition, 2008)

Cruise Market Watch. Growth of the Cruise Line Industry In: *Cruise Market Watch* [online]. [2016?]. Available at: <<http://www.cruisemarketwatch.com/growth/>>

CSIC (Centro Superior de Investigaciones Científicas). *Series temporales*. Madrid: CSIC; 2006.

Mediterranean ports invest in cruises In: *Econostrum* [online] : *economic news in the Mediterranean*. Marseille : SAS Econostrum.info, 2013. Available at: <http://en.econostrum.info/Mediterranean-ports-invest-in-cruises_a211.html>

Esteve-Perez J. ; Garcia-Sanchez, A. Cruise market: Stakeholders and the role of ports and tourist hinterlands In: *Maritime Economics & Logistics* [online]. Basingstoke, Hampshire, 2014, Vol. 17, No. 3, p. 371-388. Available at: <<http://bit.ly/28IKi8x>>

Available at UPC: <http://cataleg.upc.edu/record=b1407125~S1*cat>

Fernández-Morales, A. Decomposing seasonal concentration In: *Annals of Tourism Research* [online]. Amsterdam [etc.] : Elsevier, 2003, Vol. 30, No. 4, p. 942-956. ISSN: 0160-7383. Available at: <[http://dx.doi.org/10.1016/S0160-7383\(03\)00090-2](http://dx.doi.org/10.1016/S0160-7383(03)00090-2)>

Gui, L. ; Russo, A. P. Cruise ports: a strategic nexus between regions and global lines : evidence from the Mediterranean In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London : Routledge, 2011, Vol. 38, No. 2, p. 129-150. Restricted access: <<http://dx.doi.org/10.1080/03088839.2011.556678>> Available at Spanish universities: <<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Halpern, N. Measuring seasonal demand for Spanish airports : implications for counter-seasonal In: *Research in Transportation Business & Management* [online]. Amsterdam, etc. : Elsevier, 2011, Vol. 1, No. 1, p. 47-54. ISSN: 2210-5395. Available at: <<http://dx.doi.org/10.1016/j.rtbm.2011.05.005>>

Available at UPC: <https://cataleg.upc.edu/record=b1404642~S1*cat>

Hartmann, R. Tourism, seasonality and social change In: *Leisure Studies* [online]. London : Routledge, 1986, Vol. 5, No. 1, p. 25-33. Available at: <<http://bit.ly/28IJeUG>>

Juan-Martínez, M. C. ; Pérez-García, E. Valencia Cruise Terminal, Spain. In: *COST Action TU1001 Public Private Partnerships in Transport: Trends & Theory P3T3*, [online], edited by Roumboutsos A, Farrell S, Liyanage CL, Macário R, 141–153. Brussels: COST Office, 2013. Available at: <http://www.cost.eu/COST_Actions/tud/TU1001>

Cruise activities in MedCruise ports: Statistics 2014 : A MedCruise report. [online]. Piraeus: MedCruise, 2015. Available at: <http://bit.ly/28J3r7N>

The New Medcruise statistic report. [online]. Barcelona: MedCruise, 2011. Available at: <<http://bit.ly/28lVW1Q>>

Nieto, J.L. ; Amate, I. ; Román, I.M. Estudio de la estacionalidad turística en la provincia de Almería durante el periodo 1980-1998. In: *Revista de Humanidades y Ciencias Sociales del IEA*. [online]. 2000; 17: 13-26. Available at: <<https://dialnet.unirioja.es/descarga/articulo/199903.pdf>>

Panorama OMT del turismo internacional: edición 2015. [online]. Madrid: OMT; 2015. Available at: <<http://www.e-unwto.org/doi/pdf/10.18111/9789284416875>>

Parola, F. ; Veenstra, A.W. The spatial coverage of shipping lines and container terminal operators. In: *Journal of Transport Geography* [online]. 2008, vol. 16, no.4, p. 292-299. Available at: <<http://dx.doi.org/10.1016/j.jtrangeo.2007.11.001>>. Available at: <<http://bit.ly/291taLb>>

Piraeus Port Authority. *Investment Plan 2012-2016*. Piraeus: Piraeus Port Authority, 2012.

Autorità Portuale di Civitavecchia Fiumicino Gaeta. *Port di Roma e del Lazio*. [online]. Civitavecchia, 2015. Available at:
<http://www.portidiroma.it/en/front_progettien/civitavecchia>

Puertos del Estado : Estadística mensual. [online]. Madrid: Puertos del Estado, 2016. Available at:
<http://www.puertos.es/es-es/estadisticas/Paginas/estadistica_mensual.aspx>

Rey Graña, C. ; Ramil Díaz, M. *Introducción a la estadística descriptiva*. [online] 2nd. Coruña: Netbiblo, 2007. Available at: <<http://bit.ly/28InzrB>>

Reyna M. Current port and terminal developments. In: *Proceedings of the 2009 American Association of Port Authorities Cruise Seminar*, [online]. Mazatlán, February 18, 2009. Available at: <<http://bit.ly/28JnPpk>>

Rodrigue, J.P. ; Comtois, C. ; Slack, B. *The geography of transport systems*. [online]. Third ed. Abingdon: Routledge, 2013. Available at:
<<https://people.hofstra.edu/geotrans/>>

Rodríguez, J.V. El Puerto aprueba el documento que permite el hotel del dique de Levante. In: *Diario La Opinión de Málaga*. [online]. 2015, April 22. Available at:<<http://bit.ly/28JnUJS>>

Soriani, S. ; Bertazzon, S. ; Di Cesare, F; Rech, G. Cruising in the Mediterranean: Structural aspects and evolutionary trends. Shipping. In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London : Routledge, 2009; 37 (3): 235-251. Available at Spanish universities:
<<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

Tourspain. *Nota de coyuntura de Frontur*. [online]. Diciembre 2014. Madrid: Tourspain, 2015. Available at: <<http://bit.ly/1P3cALC>>

Universidad Politécnica de Cartagena. *Series temporales*. Cartagena: UPCT, 2009.

Wild, P. ; Dearing, J. Development of and prospects for cruising in Europe. shipping In: *Maritime Policy & Management* [online] : *the flagship journal of international shipping and port research*. London : Routledge, 2000; 27. No 4, p. 315-333. Restricted access:
<<http://dx.doi.org/10.1080/030888300416522> > Available at Spanish universities:
<<http://rebiun.baratz.es/rebiun/record/Rebiun00260775>>

SESSION 9: PORTS AND TERMINAL MANAGEMENT II

Adriatic Motorways of the Sea analysis

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AdriaticMoS [online]: *developing of motorways of sea system in Adriatic region*. IPA Adriatic Cross-border Cooperation Programme, 2013. Available at: [<http://bit.ly/1XA89eo>](http://bit.ly/1XA89eo)

Aifandopoulou, G. Motorways of the sea as part of the revised TEN-T. In: *International Conference on TEN-T*. Vienna, 2004. Available at: [<http://slideplayer.com/slide/4464352/>](http://slideplayer.com/slide/4464352/)

Baird, A. J. The economics of motorways of the sea. In: *Maritime Policy and Management*, 2007, v. 34, No.4. p. 287-310. Restricted access: [<http://www.tandfonline.com/doi/abs/10.1080/03088830701538976>](http://www.tandfonline.com/doi/abs/10.1080/03088830701538976)

CBA Guide Team. *Guide to cost-benefit analysis of investment projects* [online]. [Brussels]: European Commission, Directorate General Regional Policy, 2008. Available at: [<http://bit.ly/1Zuhemq>](http://bit.ly/1Zuhemq)

Cost-benefit analysis of relevant motorways of the sea. In: *AdriaticMoS Developing of motorways of sea system in Adriatic region*. IPA Adriatic Cross-border Cooperation Programme, 2014. Available at: [<http://bit.ly/1TTgcN2>](http://bit.ly/1TTgcN2)

Haralambous, G. *The contribution of the "Sea Motorways" to the European Transport Policy* [online]. Piraeus: Hellenic Institute of transport, 2005. Available at: [<http://bit.ly/22LSs32>](http://bit.ly/22LSs32)

Jugović, A.; Debelić, B.; Brdar, M. Short sea shipping in Europe factor of sustainable development transport system of Croatia. In: *Pomorstvo: Scientific Journal of Maritime Research*. Rijeka: University of Rijeka, 2011; Vol. 25, No.1, p. 109-125. ISSN: 1332-0718. Available at: [<http://bit.ly/1TThRC6>](http://bit.ly/1TThRC6)

Jugović, A.; Žanić Mikuličić, J.; Maglič, L. Impact of external costs on the implementation of motorways of the sea system. In: *Pomorstvo: Scientific Journal of Maritime Research*. Rijeka: University of Rijeka, 2014; Vol. 28, No.1. p. 17-21. ISSN: 1332-0718. Available at: [<http://bit.ly/1XAewOY>](http://bit.ly/1XAewOY)

Sartori, D. [et al.] *Guide to cost-benefit analysis of investment projects* [online]: Economic appraisal tool for Cohesion Policy 2014-2020, December 2014. Luxembourg:

Publications Office of the European Union, 2015. ISBN 978-92-79-34796-2. Available at: <<http://bit.ly/1xykUIF>>

Smojver, Ž.; Jugović, A.; Perić Hadžić, A. Implementation of “ECOBONUS” project in the Republic of Croatia. In: *Pomorstvo: Scientific Journal of Maritime Research*. Rijeka: University of Rijeka, 2012, Vol. 26, No. 1. p. 95-11. ISSN: 1332-0718. Available at: <<http://bit.ly/1UbZGLA>>

Hoteling cruise ship’s power requirements for high voltage shore connection installations

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Ajuntament de Barcelona. Barcelona air quality improvement plan. In: *Barcelona.cat* [online]. Barcelona: Ajuntament de Barcelona. Àrea de Ecologia, Urbanisme i Mobilitat, 2015. Available at: <<http://bit.ly/28QjVMK>>

Brown, D.C.; Watts, M.; Thunem, P. Cruise ship shore power projects. In: *Alternative Maritime Power (AMP) Conference* [online]. Los Angeles: AMP, 2006. Available at: <<http://bit.ly/1Uc2N6n>>

Bussiness Green Staff. Maersk line cruises to lower shipping emissions levels. In: *GreenBiz* [online], 9 Apr. 2014. Available at: <<http://bit.ly/1rcRcbm>>

Commission recommendation of 8 may 2006 on the promotion of shore-side electricity for use by ships at berth in community ports : 2006/339/ec. In: *Official Journal of the European Union* [online], L125/38- L125/42, 12.05.2006. Available at: <<http://bit.ly/1WEDE6g>>

Council Directive 2003/96/EC of 27 October 2003 restructuring the Community framework for the taxation of energy products and electricity. In: *Official Journal of the European Union* [online], L283/51-L283/70, 31.10.2003. Available at: <<http://bit.ly/1gyIE2T>>

Directive 2005/33/EC of the European Parliament and of the Council of 6 July 2005 : amending Directive 1999/32/EC. In: *Official Journal of the European Union* [online], L191/59-L191/69, 22.07.2005. Available at: <<http://bit.ly/1TTIE2i>>

Directive 2005/50/EC. In: *Official Journal of the European Union* [online]. EUR-Lex. Available at: <<http://eur-lex.europa.eu/eli/dir/2005/50/oj>>

Ericsson, P.; Fazlagic, I. *Shore side power supply* [online]: *a feasibility study and a technical solution for an on-shore electrical infrastructure to supply vessels with electric power while in port*. Göteborg: Chalmers University of Technology, 2008, 147 p., Master of science thesis. Available at: <<http://bit.ly/28Sn5Tb>>

European Commission Directorate-General-Environment Directorate C. *Service Contract on Ship Emissions* [online]: *Assignment, Abatement and Market-based Instruments : Task 2a Shore-side Electricity : final report*. Cheshire: ENTEC, 2005. Available at: <http://ec.europa.eu/environment/air/pdf/task2_shoreside.pdf>

Godish, T.; Davis, Wayne T.; Fu, J.S. *Air quality*. 5th edition. Boca Raton: CRC Press, 2015. ISBN 978-1466584440. Available at UPC: <http://cataleg.upc.edu/record=b1343245~S1*cat> (4th ed.)

Hon, G.; Wang, H. *The energy efficiency design index (EEDI) for new ships*. [online]. International Council on Clean Transportation, 3 oct. 2011. Available at: <<http://www.theicct.org/eedi-new-ships>>

IEEE. *High voltage shore connection (HVSC) systems* [online]: *General requirements : ISO/IEC/IEEE 80005-1*. Geneva: IEC, 2012. Available only to UPC users: <<http://bit.ly/1PDxDV8>> (IEEE database). Restricted access: <www.iso.org/iso/catalogue_detail.htm?csnumber=53588>

International Maritime Organization. MARPOL : Annex VI. London : Organización Marítima Internacional, 2011. Available at UPC: <http://cataleg.upc.edu/record=b1412340~S1*cat> (print). Available only to UPC users: <http://cataleg.upc.edu/record=b1472503~S1*cat> (online)

Jacob, D. J.; Winner, D. A. Effect of climate change on air quality. *Atmospheric Environment* [online]. Amsterdam: Elsevier, 2009, Vol. 43, No.1, Pages 51–63. Available at: <<http://www.sciencedirect.com/science/article/pii/S1352231008008571>>

Schrooten, L. [et al.] Emissions of maritime transport: a reference system. In: *Journal of Maritime Research* [online], 2009, Vol.6, No.1, p. 43-52. ISSN-e: 1697-9133. ISBN: 1697-4840 (print). Available at: <<http://bit.ly/28ZFRW2>>
Available at UPC: <http://cataleg.upc.edu/record=b1274140~S1*cat>

Lloyd's register. *Implementing a ship energy efficiency management plan (SEEMP)* [online]: guidance for shipowners and operators. Version 2.0, june 2012. Available at: <<http://bit.ly/1TVmNqa>>

Merk, O. The competitiveness of global port-cities : synthesis report. In: *OECD Regional Development Working Papers*, 2013/13, OECD Publishing. Available at: <<http://dx.doi.org/10.1787/5k40hdhp6t8s-en>>

Polman, P. Why sustainability is no longer a choice (Op-Ed). In: *Live-science* [online]. Purch, 2016. Available at: <<http://bit.ly/1TPmP5y>>

Port de Barcelona. *Barcelona cruise facilities* [online] : 2013 : *Europ's leading cruise port*. Barcelona : Port de Barcelona, 2013. Available at: <<http://bit.ly/1Xaal1M>>

Port de Barcelona. *Cruise traffic prediction 2014*.

Port de Barcelona. *Cruise traffic prediction 2015*.

Port de Barcelona. *Cruise traffic statistics 2014* [online]. Available at: <<http://arxius.portdebarcelona.cat/flashdss2/ESP/index.html>>

Port de Barcelona. *Cruise traffic statistics 2015* [online]. Available at: <<http://arxius.portdebarcelona.cat/flashdss2/ESP/index.html>>

Port de Barcelona. *Port of Barcelona traffic statistics* [online]: *accumulated data*. December 2013. Available at: <<http://bit.ly/1UeN1HO>>

Port of San Francisco. *Final report* [online]: *shoreside power feasibility study for cruise ships berthed at Port of San Francisco*. Novato: ENVIRON International Corporation, 2005. Available at: <<http://bit.ly/1YcCnms>>

Quaranta, F. [et al.] The environmental impact of cruise ships in the port of naples : analysis of the pollution level and possible solutions. In: *Journal of Maritime Research* [online]. 2012, Vol. 9, No. 3, p. 81-86. ISSN-e: 1697-9133. ISBN: 1697-4840 (print). Available at: <<http://bit.ly/28OdFVs>>

Espanya. Real Decreto 102/2011, de 28 de enero, relativo a la mejora de la calidad del aire. In: *BOE* [online]. No. 25, de 29 de enero de 2011, páginas 9574 a 9626. Available at: <https://www.boe.es/diario_boe/txt.php?id=BOE-A-2011-1645>

Espanya. Real Decreto 678/2014, de 1 de agosto, por el que se modifica el Real Decreto 102/2011, de 28 de enero, relativo a la mejora de la calidad del aire. In: *BOE* [online]. No. 206, de 25 de agosto de 2014, páginas 68026 a 68027. Available at: <https://www.boe.es/diario_boe/txt.php?id=BOE-A-2014-8898>

Tetra Tech., Harbors, Navigation and Environment Committee of the American Association of Port Authorities (AAPA). *Draft use of shore-side power for ocean-going vessels white paper* [online]. APA, 2007, 33 p. Available at: <<http://bit.ly/28k4FA6>>

Cross-border cooperation on water transportation, between region of Shkodra and Montenegro.

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Bumci, A. *Cross-border cooperation between Albania and Montenegro* [online]. OSI, 2001. Available at: <<http://www.policy.hu/bumci/freport.pdf>>

Celiku. S. *Historia dhe dinamika e transportit ne Shqiperi* [=History and dynamics of transportation in Albania]. Tirane: Albshop, 2010. Information: <<http://www.kohajone.com/2015/03/26/transporti-detar-tradita-e-harruar-shqiptare/>>

Creswell, J. *Research design : qualitative and quantitative approaches*. Thousand Oaks: SAGE Publications, 1994. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b1266285~S23*cat>

Henrikson, A.K. Facing across borders : the diplomacy of bon voisinage In: *International Political Science Review* [online]. Beverly Hills: Sage, 2000, Vol. 21, No. 2, p. 121-147. Available at UPC: <<http://bit.ly/28Sufa3>>

Hoti, F. *Shkodra free zone : the basic strategy of the development in the region of Shkodra, Albania*. Shkodër: Arben Çokaj, 1999. Available at: <http://shkoder.net/zip/shkodra_free_zone.pdf> (ed. 1999)

INSTAT. Anijet sipas vitit te ndertimit 1993-2009 In: *INSTAT* [online]: *Insituti i Statistikave : transporti*. Tiranë: INSTAT, [2012]. Available at: <<http://www.instat.gov.al/al/themes/transporti.aspx>>

INSTAT. Transporti In: *INSTAT* [online]: *Insituti i Statistikave*. Tiranë: INSTAT, [2012]. Available at: <<http://www.instat.gov.al/al/themes/transporti.aspx?tab=tabs-4>>

Albania. Ministry of Public Order. Republic of Albania. Strategy on border control and its integrated management 2003-2006. In: *Decision of the Council of Ministers*, No. 118, date 27.02.2003.

Vurmo, G. *Cross border cooperation in Shkodra* [online] : *prospective euro-region or a pending effort?*. Tirana: Albanian Institute for International Studies, 2006. Available at: <<https://core.ac.uk/download/files/415/11872264.pdf>>

Northern Adriatic port system - Competition and collaboration among

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Alphaliner : weekly review. [London]: Alphaliner, 2016, No. 8. Restricted at: <<http://www.alphaliner.com/>>

Bichou, K.; Gray, R. A critical review of conventional terminology for classifying seaports In: *Transportation Research Part A: Policy and Practice* [online]. New York, NY : Elsevier

Science, 2005, Vol. 39, No. 1, p. 75-92. ISBN: 0965-8564. Available at UPC:
<https://cataleg.upc.edu/record=b1243540~S1*cat>

Branderburger A.; Nalebuff, B. *Co-opetition*. New York : Currency Doubleday, 1996.
ISBN: 0385479506. Available at Catalan universities:
<http://ccuc.cbuc.cat/record=b3073767~S23*cat>

Brodie, R. J. ; Kluyver, C. A. A comparison of the short-term forecasting accuracy of econometric and naive extrapolation models of market share In: *International Journal of Forecasting* [online], 1987, Vol.3, No. 3-4, p. 423-437. Available at:
<<http://www.sciencedirect.com/science/article/pii/0169207087900355>> Available at UPC:
<https://cataleg.upc.edu/record=b1242404~S1*cat>

Ducruet, C.; Notteboom, T. The worldwide maritime network of container shipping : spatial structure and regional dynamics In: *Global Networks* [online]. New York: John Wiley & Sons, 2012, v. 12, No.3, p. 395-423. ISSN 1470-2266. Available at:
<<http://bit.ly/1UDgx5Z>>

Farris, P. [et al.] Key marketing metrics : the 50+ metrics every manager needs to know. Harlow; New York : Financial Times Prentice Hall, 2009. Available at Worldcat:
<<http://www.worldcat.org/oclc/262718942>> Available at: <<http://bit.ly/1RY8zCE>> (ed. 2006, full text)

Martin, S. *Advanced Industrial Economics*. 2nd. Ed. Oxford: Blackwell, 2001. ISBN: 0631217568, 0631217576. Available at Catalan universities:
<http://ccuc.cbuc.cat/record=b2709148~S23*cat>

Notteboom T. Concentration and load centre development in the European container port system In: *Journal of Transport Geography* [online]. New York: Elsevier Science, 1997, Vol. 5, No. 2, p. 99-115. Available at UPC:
<https://cataleg.upc.edu/record=b1242292~S1*cat>

Notteboom, T. Concentration and the formation of multi-port gateway regions in the European container port system: An Update. In: *Journal of Transport Geography* [online]. New York : Elsevier Science, 2010, Vol. 18, No.4, p. 567-583. Available at UPC:
<https://cataleg.upc.edu/record=b1242292~S1*cat>

UNCTAD. *Review of maritime transport 2015*. New York: United Nations Conference on Trade and Development, 2015. e-ISBN: 978-92-1-057410-5 ISBN: 978-92-1-057410-5 ISBN 978-92-1-112892-5 (print). Available at:
<http://unctad.org/en/PublicationsLibrary/rmt2015_en.pdf>

Yap, W.Y.; Lam, J.S.L.; Notteboom T. Developments in container port competition in East Asia In: *Transport Reviews* [online]. London: Taylor & Francis, 2006, Vol. 26, No. 2, p. 167-188. eISBN: 1464-5327 Restricted access: <<http://bit.ly/28SJm3t>>

Yeo G., Roe M., Dinwoodie J. Evaluating the competitiveness of container ports in Korea and China In: *Transport Research* [online]: Part A, 2008, Vol. 42, No. 6, p. 910-921. Available at: <<http://bit.ly/1UFBu2K>>

Management structures and ownership models of the AdriaticAegean and Black Sea ports

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Baird, A. Port privatisation: an analytical framework In: IAME. *Proceedings of International Association of Maritime Economist Conference*. London: City University; 1997, [p.24].

Bellos. I. Piraeus port becomes Med's third biggest in container traffic In: *Ekathimerini.com* [online]: *Business*. Athens: Ekathimerini, 29.01.2014. Available at: <http://bit.ly/1Ua9J2o>

Bichou, K.; Gray, R. A logistics and supply chain management approach to port performance measurement In: *Maritime Policy and Management* [online]. [London]: Taylor & Francis, 2004, Vol. 31, No. 1, p. 47-67. ISBN: 1464-5254. Restricted access: <http://www.tandfonline.com/toc/tmpm20/31/1>

Constantza Port [online]. Romania: APMC, 2016. Available at: <http://bit.ly/28SxEFJ>

Cullinane, K.; Song, D. W.; Wang, T. F. Private sector participation in asian ports In: *Pomorski zbornik* [online]. Rijeka: Croatian Association of Maritime Science and Transport, 2003, Vol. 41, No. 1, p. 177-194. e-ISBN: 0554-6397. Available at: <http://bit.ly/24ETAov>

DPworld Constantza [online]: *[South Container Terminal]*. [2016]. Available at: <http://www.dpworld.ro/>

Durres Port Authority [online]. Durres: Autoriteti Portual Durres, 2012. Available from: <http://www.apdurres.com.al/>

European Commission. Motorways of the sea In: European Commission. *Mobility and Transport* [online]. 2016. Available at: <http://bit.ly/1pzS0ze>

Global Ports Holding [online]. Istanbul: Global Ports Holding, [2016?]. Available at: <http://www.globalports.com.tr/>

Montenegro. Government of Montenegro [online]. Montenegro: Government, 2010. Available at: www.gov.me

Halili, S. Durrës container terminal, një operim i suksesshëm në Port. A: *Shekulli* [online]. Tiranë: Shekulli Media Group, 6 Mars 2014. ISBN: 2305-9826. Available at: <http://www.shekulli.com.al/web/p.php?id=41936&kat=100>

INTERIM Partners. *Integration in the intermodal goods transport of non EU states rail, inland/coastal waterway modes* [online] : Report WP4 : Improvement of intermodal market and integration of measures in spatial development : Report WP 4.4 Intermodal action plan and integration in regional development plans. 21.01.2008. Available at: <<http://bit.ly/25P2lwD>>

International Container Terminal Services. *Adriatic Gate Container Terminal*. Rijeka : ICTSI, 2016. Available at: <<http://www.ictsi.hr/index.php/en/>>

Krishna, T.H. [et al.] Identification of measurement items of performance dimensions in container port terminals In: *International Journal of Advanced Research in Computer Engineering & Technology* (IJARCET) [online]. Bhopal: Shri Pannala Research Institute of Technology, 2015, Vol. 4, No.12, p. 4314- 4319. ISBN: 2278-1323. Available at: <<http://bit.ly/1XdC1wz>>

Luka Bar [online]: homepage. Bar: Luka Bar, 2016. Available at: <<http://www.lukabar.me/index.php/en/>>

Luka Koper [online] = *Port of Koper*. Koper: Enigma, 2015. Available at: <<https://luka-kp.si/eng/>>

Luka Ploče [online]. Ploče: Luka Ploče, 2015. Available at: <http://www.luka-ploce.hr/en/index_en.php/>

Luka Rijeka [online] = *Port of Rijeka*. Rijeka: Port of Rijeka, 2010. Available at: <http://www.lukarijeka.hr/index_en.aspx>

Niccolai, F. A stagnating situation at Durres port container terminal In: *Ship2Shore* [online]: [on line magazine of maritime and transport economics](#). Genoa: Ship2Shore, 25.05.2015. Available at: <<http://bit.ly/1UqscVN>>

North Adriatic Ports Association. About NAPA In: *NAPA* [online]. NAPA, 2013. Available at: <<http://www.portsofnapa.com/about-napa>>

Piraeus Port Authority [online]: home. Piraeus: PPA, 2016. Available at: <<http://www.olp.gr/en/>>

Piraeus Container Terminal [online]: about us. Gospel Creative, 2016. Available at: <<http://www.pct.com.gr/>>

Podsakoff, P.M. [et al.] Common method biases in behavioral research : a critical review of the literature and recommended remedies In: *Journal of Applied Psychology* [online]. [Washington: American Psychological Association], 2003, Vol. 88, p. 879-903. Restricted access: <http://www.apa.org/pubs/journals/apl/>. Available at Catalan universities: <http://ccuc.cbuc.cat/record=b1574609~S23*cat>

Port of Adria [online]. Bar: Port of Adria, [201?]. Available at: <<http://www.portofadria.me/>>

Port Reform Toolkit [online]: *alternative port management structures and ownership models*. 2nd. ed. Washington: World Bank, 2007. Vol. 3. Available at: <<http://bit.ly/1XizUYf>> e-ISBN: 978-0-8213-6608-0

Rathman, D.; Kružić, B.; Poletan-Jugović, T. Analysis of the competitiveness of Port of Ploče at the container transport market and the possibilities for improvement In: *Scientific Journal of Maritime Research* [online]. Rijeka: University of Rijeka, Faculty of Maritime Studies, 2015; Vol. 29, No. 1, p. 40-44. e-ISBN: 1846-8438. ISBN: 1332-0718 (print). Available at: <<http://bit.ly/1tmehKH>>

Šekularac-Ivošević, S. *Strategic effects of market positioning on the seaport competitiveness* [online]. Mostar: The University Džemal Bijedić, Faculty of Economics, 2015. Dissertation University Džemal Bijedić.

Stojaković, M.; Twrdy, E.; Zanne, M. The railway hinterland connection : the key factors in the development of North Adriatic Ports. In: *Maritime transport VI: 6th International Conference on Maritime Transport: maritime transport'14*. Barcelona : Universitat Politècnica de Catalunya. Departament de Ciència i Enginyeria Nàutiques, 2014, p. 15-26. ISBN: 9788498804836. Available at UPC: <https://cataleg.upc.edu/record=b1477439~S1*cat>

Thessaloniki Port Authority [online]. Thessalonica: Nextline, 2014. Available at: <<http://www.thpa.gr/?lang=en>>

Trupac, I.; Twrdy, E. More competitiveness of the Port of Koper through supply chain integration In: *Promet* [online]: *Traffic&Transportation*. Zagreb: University of Zagreb, Faculty of Transport and Traffic Sciences, 2010; Vol. 22, No. 4, p. 251-257. e-ISBN: 1848-4069. Available at: <<http://dx.doi.org/10.7307/ptt.v22i4.190>>

Tugwell, P.; Chrysoloras, N. Greece targets 3.5 billion euros from asset sales in 2016 In: *Ekathimerini.com* [online]: *Business*. Athens: Ekathimerini, 19.10.2015. Available at: <<http://bit.ly/1Yecse0>>

Vangelas G. *Current activities and development prospects* [online]. Thessalonica: Thessalonic Port Authority, 2013. Available at: <<http://bit.ly/25WKkyv>>

Vickers, J.; Yarrow, G. Economic perspectives on privatisation In: *Journal of Economic Perspectives* [online]. Nashville : American Economic Association, 1991, Vol. 5, No. 2, p. 111-132. ISBN: 0895-3309. Available only to UPC users: <https://cataleg.upc.edu/record=b1216045~S1*cat> Print edition available at UPC: <https://cataleg.upc.edu/record=b1019897~S1*cat>

Yeo, G.T.; Roe, M.; Dinwoodie, J. Evaluating the competitiveness of container ports in Korea and China In: *Transportation Research Part A: Policy and Practice* [online]. New York, NY: Elsevier Science, 2008, Vol. 42, No. 6, p. 910-921. ISBN: 0965-8564. Available at UPC: <https://cataleg.upc.edu/record=b1243540~S1*cat>