**CURRICULUM VITAE**

of

**Professor Jin Wang**

***PhD, MSc, BEng, CEng, FMarEST, FRINA, FSaRS***

***Professor of Marine Technology***

***Director of Liverpool Offshore, LOgistics and Marine (LOOM) Research Institute***

School of Engineering, Technology and Maritime Operations

Liverpool John Moores University (LJMU)

***Gender***Male

***Year of birth*** 1964

***Nationality*** British

***Internet*** [www.ljmu.ac.uk/ENG/Researchgroups/MORG/](http://www.ljmu.ac.uk/ENG/Researchgroups/MORG/)

**ACADEMIC QUALIFICATIONS**

***PhD in Marine & Offshore Safety***  Newcastle, UK, 1994 (by staff registration)

***MSc in Marine Engineering*** Newcastle, UK 1989

***BEng in Marine Automation***  Dalian, P. R. China 1983

###### PROFESSIONAL QUALIFICATIONS

1. Fellow of the UK Safety and Reliability Society (FSaRS), 2011 - date (Member from 1997-2011).
2. Fellow of the Institute of Marine Engineering, Science and Technology (FIMarEST), 1999 - date.
3. Fellow of the Royal Institute of Naval Architects (FRINA), 2005 - date.
4. Chartered Engineer (CEng), 1996 - date.

**EMPLOYMENT HISTORY**

***9/2002 – Date***  School of Engineering, Liverpool John Moores University, UK

*Job title* *Professor of Marine Technology*

***9/2006 – 3/2007*** ABS Consulting Ltd, Warrington, UK

*Job title* *Safety Consultant.*

***10/1999 – 8/2002***  School of Engineering, Technology and Maritime Operations, Liverpool John Moores University, UK

*Job title* *Reader in Marine Engineering*

***9/1995 – 9/1999*** School of Engineering, Technology and Maritime Operations, Liverpool John Moores University, UK

*Job title* *Lecturer in Marine and Offshore Technology*

***4/1995 - 8/1995*** Centre for Software Reliability, Department of Computing Science, University of Newcastle upon Tyne, UK

*Job title Research Associate (1A)*

*Research project* Integration of safety analysis techniques for process control systems (EU Research Project)

*Areas of involvement* Safety analysis of the software domain.

***1/1991-2/1995*** Engineering Design Centre, University of Newcastle upon Tyne, UK

*Job title Research Associate (1A)*

***3/1990 - 10/1990***  Loughborough University of Technology, UK

*Job title* *Scientific Researcher*

***9/1983 - 9/1988*** Qingdao Ocean Shipping Mariners Institute, P. R. China

*Job title*  *Assistant Lecturer*

**EDUCATION**

***1/1991-7/1994*** University of Newcastle upon Tyne, UK

*Degree obtained* *PhD* *in Marine and Offshore Safety* (staff registration)

***9/1988-11/1989*** University of Newcastle upon Tyne, UK

*Degree obtained MSc in Marine Engineering*

***9/1979-8/1983*** Dalian Maritime University, Dalian, P. R. China

*Degree obtained BEng in Marine Automation (Marine Control Engineering).*

**SCHOLARLY ACTIVITIES (evidence of esteem)**

***Government agencies/funding bodies***

1. Member of sub-panel 12 in Research Excellence Framework (REF) in the UK (2011-2014).

***Professional bodies***

1. Mmember of Formal Safety Assessment Experts Group at IMO (since 2009).

***Editorial Board/Editor of National and International Journals***

1. Editor of the International Journal of Automation and Computing (IJAC) (ISSN: 147-8186) (SCI cited, since 2004).
2. Member of Quality and Reliability Engineering International (ISSN: 0748-8017) (SCI cited, since 2003).
3. Member of the Editorial Board of the UK Safety and Reliability Society Journal (ISSN: 0961-7353) (since Vol.20, 2000).
4. Member of the Editorial Board of Tourism Today (ISSN: 1450-0906) (since 2003).
5. Member of the Editorial Board of Euro Mediterranean Journal (ISSN: 1450 2194) (since 2005).
6. Member of Journal of Marine Science and Application (ISSN: 1671-9433) (since 2006).
7. Member of Editorial Board of Journal of Traffic and Transportation Engineering (since 2008).

***Invited presentations***

More than 20 invited presentations including the following:

1. ***Wang J***., “Challenges and development in maritime security assessment”, International Port Security 2011, Rotterdam, The Netherlands, 28-29 Sept. 2011.
2. ***Wang J***., Riahi R., Li K.X., “A study of challenges and developments in maritime safety and security assessment”, Proceeding of International Conference on Managing Reliability, Maintainability and Safety in the Maritime Industry, RINA HQ, London, 25-26 January 2012, pp 71-80.

**AWARDS AND FELLOWSHIPS**

* Won the IMarEST Denny Medal 2004 – the most worthy paper for “*Fuzzy logic approaches to safety assessment in maritime engineering applications*” (by Sii H.S., Wang J., Ruxton T., Yang J.B., Liu J.), in Journal of Marine Engineering & Technology, IMarEST.
* Won the IMarEST Denny Medal 2007 – the most worthy paper for “Facilitating the treatment of uncertainty in marine formal safety assessment” (by Eleye-Datubo A., Wall A., Saajedi A., Wang J.), in Journal of Marine Design and Operations.
* Won the Research Leadership Award for exceptional research in Risk and Safety Assessment of Marine Engineering Systems by Society for Reliability Engineering, Quality and Operations Management, 2008.
* Awarded a Research Fellowship from the Leverhulme Trust, 2011-2013.

###### PUBLISHED PUBLICATIONS (all in English)

About 300 technical papers have been published in English. The following is a selected list.

***Published report***

1. Sii H.S., ***Wang J***., “*A safety based decision support system for the design of large offshore engineering products”*, HSE Books, Suffolk, UK, 2002, 60 pages (ISBN: 0 7176 2510 9).
2. Liu J., Yang J.B., ***Wang J.,*** Sii H.S., *A safety-cost based design-decision support framework using fuzzy evidential reasoning approach*, Chapter-LYWS-03, a chapter in book "Intelligent Sensory Evaluation: Methodologies and Applications” D. Ruan and X.Y. Zeng, eds., Physica-Verlag, A Springer-Verlag, ISBN: 3-540-20324-9, 2004, 31-50.
3. Lois P., ***Wang J.,*** *Cost, benefits and risk assessment for improving performance of the marine tourism industry*, in Tourism Management and Research, edited by T.V. Liu, Nova Science Publishers, Chapter 7, 2006, 179-210 (ISBN 1-60021-058-9).
4. ***Wang J.,*** Lois P., *Cruise competition and qualitative analysis of passenger attitudes*, in Promises and Perils in Hospitality and Tourism Management, edited by Saurabh Dixit, Aman Publications, New Delhi, 2006, Chapter 1, 3-32 (ISBN: 81-8204-010-8).
5. Liu J., Lopez L. M., Yang J. B., ***Wang J***., “*Linguistic assessment approach for hierarchical safety analysis and synthesis*”, a chapter in Intelligent Decision and Policy Making Support Systems, D. Duan, F. Hardeman and K. van der Meer eds., Springer, ISSN: 1860-949x, 2008, 211-230.
6. Pillay A, ***Wang J.,*** *Safety of marine systems*, In Chapter 11 Marine Safety of the Maritime Engineering Book – A Guide to Ship Design, Construction and Operation, Edited by A F. Mollandg, Elsevier, ISBN: 978-0-7506-8987-8, 2008, 808-853.
7. Yang Z., ***Wang J.,*** *Formal ship safety assessmen*t, Chapter 3 in Maritime Safety, Security and Piracy, edited by W. K. Talley, Informa Publisher, 2008, 31-53, ISBN: 978 1 84311 767 4.
8. Wang J., Pillay A., Mokashi A., “Application of reliability centred maintenance in ship operations”, in Safety and Reliability of Industrial Products, Systems and Structures, edited by C. Guedes Soares, CRC Press, 2010, 347-367, ISBN: 978-0-415-66392-2.
9. ***Wang J*.,** Ruxton T., & Labrie C. R., “*Design for safety of marine engineering systems with multiple failure state variables*”, Reliability Engineering & System Safety, Vol.50, No.3, 1995, 271-284 (ISSN-0951-8320).
10. ***Wang J*.,** Yang J.B., Sen P., “*Safety analysis and synthesis using fuzzy sets and evidential reasoning*”, Reliability Engineering & System Safety, Vol.47, No.2, 1996, 103-118 (ISSN: 0951-8320).
11. ***Wang J*.,** Yang J.B., Sen P., “*Multi-person and multi-attribute design evaluations using evidential reasoning based on subjective safety cost analysis*”, Reliability Engineering & System Safety, Vol.52, No.2, 1996, 113-129 (ISSN: 0951-8320).
12. ***Wang J*.,** Yang J.B., Sen P., Ruxton T., “*Safety based design and maintenance optimisation of large marine engineering systems*”, Applied Ocean Research, Vol.18, No.1, 1996, 13-27 (ISSN-0141-1187).
13. ***Wang J****.,* “*A subjective methodology for safety analysis of safety requirements specifications*”, IEEE Transactions on Fuzzy Systems, Vol.5, No.3, 1997, 418-430 (ISBN: 1063-6706).
14. ***Wang J.,*** “*A subjective tool applied to formal safety assessment of ships*”, Ocean Engineering, Vol.27, No.10, 2000, 1019-1035 (ISSN: 0029-8018).
15. ***Wang J.,***Ruxton T., “*A review of safety analysis methods applied to the design process*”, Journal of Engineering Design, Vol.8, No.2, 1997, 131-152 (ISSN: 0954-4828).
16. ***Wang J.,*** Ruxton T., “*A design for safety methodology of large engineering systems*”, Journal of Engineering Design, Vol.9, No.2, 1998, 159-170 (ISSN: 0954-4828).
17. ***Wang J.,*** “A review of  *design for safety methodology for large marine and offshore engineering products*", Proceedings of the Institution of Mechanical Engineers Part E, IMechE Journal of Process Mechanical Engineering, Vol. 212, 1999, 251-261 (ISSN: 0954-4089).
18. ***Wang J.,*** O. Kieran“*Offshore safety assessment and safety based decision making – the current status and future aspects*”, Journal of Offshore Mechanics and Arctic Engineering – Transactions of the ASME (American Society of Mechanical Engineers), Vol.122, No. 2, 2000, 63-69 (ISSN: 0892-7219).
19. ***Wang J.,*** “*Current status of future aspects of formal safety assessment of ships*”, Safety Science, Vol. 38, 2001, 19-30 (ISSN: 0925 – 7535).
20. ***Wang J.,*** Yang J.B., “*A subjective safety based decision making approach for evaluation of safety requirements specifications requirements in software development*”, International Journal of Safety, Quality and Reliability, Vol.8, No.1, 2001, 35-57 (ISSN: 0218 – 5393).
21. Pillay A., ***Wang J.,*** Wall, A., Ruxton T., “*An maintenance study of fishing vessel equipment using delay time analysis”*, Journal of Quality in Maintenance Engineering, Vol.7, No. 2, 2001, 118-125 (ISSN: 1355-2511).
22. ***Wang J.,*** Foinikis P., “*Formal safety assessment of containerships*”, International Journal of Marine Policy, Vol. 25, 2001, 143-157 (ISSN: 0308-597X).
23. Pillay A., ***Wang J.,*** Wall A., “*Optimal inspection period for fishing vessel equipment: a cost and down time model using delay time analysis*”, Marine Technology and SNAME News, Vol. 38, No.2, 2001, 122-129 (ISSN: 0025-3316).
24. Sii H.S., Ruxton T., ***Wang J.,*** “*Novel risk assessment techniques for maritime safety management system”,* International Journal of Quality & Reliability Management, Vol. 18, No. 8, 2001, 982-999 (ISSN: 0256-671X).
25. Loughran C., Pillay A., ***Wang J.,*** Wall A., Ruxton T., “*A preliminary study of fishing vessels*”, Journal of Risk Research, Vol.5, No.1, 2002, 3-21 (ISBN: 1366-9877).
26. Sii H.S., Ruxton T., ***Wang J.,*** *“A fuzzy-logic-based approach to qualitative safety modelling for marine systems”*, Engineering Reliability & System Safety, Vol.73, No.1, July 2001, 19-34 (ISSN: 0951-8320).
27. Sii H.S., Ruxton T., ***Wang J.,*** *“Taguchi concepts & their applications in marine and offshore safety studies”*, Journal of Engineering Design, Vol.12, No.4, 2001, 331-358 (ISSN-0954-4828).
28. ***Wang J.,*** “*A brief review of marine and offshore safety assessment*”, Marine Technology, SNAME, Vol.39, No.2, April, 2002, 77-85 (ISSN: 0025-3316).
29. ***Wang J.,*** “*Offshore safety case approach and formal safety assessment of ships*”, Journal of Safety Research, Vol.33, No.1, 2002, 81-115 (ISSN: 0022-4375).
30. Sii H.S., Ruxton T., ***Wang J.,*** “S*ynthesis using fuzzy set theory and Dempster-Shafer based approach to compromise decision making with multiple attribute applied to risk control options selection*”, Proceedings of the Institution of Mechanical Engineers Part E, IMechE Journal of Process Mechanical Engineering, 2002, Vol. 216, 15-29 (ISSN: 0954-4089).
31. Mokashi A. J., ***Wang J***., Verma A. K., “*A study of reliability centred maintenance in ship operations*”, International Journal of Marine Policy, Vol. 26, No.5, 2002, 325-335 (ISSN: 0308-597X).
32. Pillay A., ***Wang J.,*** “*A risk ranking approach incorporating fuzzy set theory and grey theory*”, Engineering Reliability & System Safety, Vol.79, No.1, 2003, 61-67 (ISSN: 0951-8320).
33. Mokashi A. J., Dastur H., ***Wang J***., Verma A. K., “*Likely treads in shipboard maintenance*”, Safety Science Monitor, Vol. 6, No. 1, 2002, 22-25 (ISSN: 1443-8844).
34. Sii H.S., ***Wang J.,*** “*A design-decision support framework for evaluation of design options/proposals using a composite structure methodology based on approximate reasoning approach and evidential reasoning method*”, IMechE Journal of Process Mechanical Engineering, Vol.217, 2003, 59-76 (ISSN: 0954-4089).
35. Sii H.S., ***Wang J.,*** Ruxton T., “*A statistical review of the risk associated with offshore support vessel/platform encounter in UK waters*”, Journal of Risk Research, Vol. 6, No.2, 2003 3-21 (ISBN: 1366-9877).
36. Lois P., ***Wang J.,*** Wall A.D., Ruxton T., “*Formal safety assessment of cruise ships”*, Tourism Management, Vol.25, Issue 1, 2004, 93-109 (ISSN: 0261-5177).

# Liu J, Yang J.B., Wang J., Sii H.S., Wang Y.M., “Fuzzy rule-based evidential reasoning approach for safety analysis”, International Journal of General Systems, Vol.23, No.2-3, 2004, 183-204 (ISBN: 0308-1079).

1. Pillay A., ***Wang J.,*** Wall A.D., Ruxton T., Loughran C., “*Formal safety assessment of fishing vessels: risk ranking and maintenance model*”, Journal of Marine Engineering and Technology, No.A4, 2004, 29-42 (ISSN1476-1548).
2. Sii, H.S., Wang, J., Yang, J.B., Liu, J., “*A design-decision support framework for evaluation of design options/proposals using a fuzzy-logic-based composite structure methodology*”, Journal of Engineering Design, Vol.15, No.5, 2004, 493-514 (ISSN: 0954-4828).
3. ***Wang J***., Sii H.S., Yang J.B., Pillay A., Maistralis E.*,* Saajedi A., *“Use of advanced in technology in marine risk assessment*”, Risk Analysis, Vol.24, No.4, 2004, 1011-1033 (ISSN: 0272-4332).
4. Liu J, Yang J.B., ***Wang J.,*** Sii H.S., “*Engineering system safety analysis and synthesis using fuzzy rule-based evidential reasoning approach*”, Quality and Reliability Engineering International, Vol.21, 2005, 387-411 (ISSN: 1099-1638).
5. Sii H.S., ***Wang J.,*** Eleye-Datubo A., Liu J., Yang J.B., “*Safety assessment of FPSO turret-mooring system using approximate reasoning & evidential reasoning*”, Marine Technology, Vol.42, No.2, 2005, 88-102 (ISSN: 0025-3316).
6. Yu D.L., Chang T.H., ***Wang J***., “*Fault tolerant control of nonlinear processes with adaptive diagonal recurrent neural network model*”, Lecture Notes in Computer Science, 3498, 2005, 86-91, 2005 (ISSN: 0302-9743).
7. ***Wang J.,***Pillay A., Kwon S, Wall. A.D., Loughran C., “*An analysis of fishing vessel accidents”,* Accident Analysis and Prevention, Vol.39, 2005, 1019-1024 (ISSN: 0001-4575).
8. ***Wang J.***, “*A review of marine and offshore safety assessment”,* Quality and Reliability Engineering International, Vol.22, No.1, 2006, 3-19 (ISSN: 1099-1638).
9. Yang J.B., Liu J, ***Wang J.,*** Sii H.S., “*A belief rule-base inference methodology using the evidential reasoning approach*”, IEEE Transactions on SMC – Part A: Systems and Humans, Vol.36, No.2, 2006, 266- 285 (ISSN: 1083-4427).
10. Kim W.W., Kwon Y.S., Wall A.D., ***Wang J.,*** “*Fire risk modeling of machinery space: an application of approximate reasoning approach (fuzzy averaging methods) in passenger ship engine room”*, International Journal of Offshore and Polar Engineering, Vol.16, No.1, 2006, 48-56 (ISSN: 1053-5381.
11. Eleye-Datubo A.G., Wall A., Saajedi A., ***Wang J.,*** “*Enabling a powerful marine and offshore decision-support solution through Bayesian network technique*”, Risk Analysis, Vol.26, No.3, 2006, 695-721.
12. Kieni M., Wall A.D., Bonsall S., ***Wang J.***, “[*An experimental evaluation of the economic feasibility of automated quayside cranes*](http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=P2CAjCOppCG1@lc4Ki5&page=3&doc=22)”, Marine Technology Society Journal, Vol.40, No.1, 2006, 51-61.
13. Ung S.T., Bonsall S., Williams V., ***Wang J.,*** “*Human error assessment and management in port operation using fuzzy AHP*”, Marine Technology Society Journal, Vol.40, No.1, 2006, 73-86.
14. Ung S.T., Bonsall S., Williams V., ***Wang J.,*** “*Test case based risk predictions using artificial neural network*”, Journal of Safety Research, Vol.37, 2006, 245-260 (ISSN: 0022-4375).
15. Xu L., Liu J., Yang J.B., Liu G.P., ***Wang J.***, Jenkinson I., Ren J., “*Inference and learning methodology of belief-rule-based expert system for pipeline leak detection*”, Expert Systems with Applications, Vol.32, No.1, 2007, 103-113 (ISSN: 0957-4174).
16. Yang J.B, Liu J., Xu D.L., ***Wang J.,*** Wang H.W., “*Optimal Learning method for training belief rule based systems*”, IEEE Transactions on Systems, Man, and Cybernetics – Part A: Systems and Humans. Vol. 37, No. 4, July 2007, 569-585.
17. Ung S., Bonsall S., Williams V., Wall A., ***Wang J.***, “*Application of Six Sigma to port security”*, Quality and Engineering Reliability Engineering International, Vol.23, No.5, 2007, 631-639 (ISSN: 1099-1638).
18. [Harati-Mokhtari A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=Z28LDfCp1HG67PJhPNL&Func=OneClickSearch&field=AU&val=Harati-Mokhtari+A&ut=000250067300003&auloc=1&fullauth=%20(Harati-Mokhtari,%20Abbas)&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., [Wall A](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=Z28LDfCp1HG67PJhPNL&Func=OneClickSearch&field=AU&val=Wall+A&ut=000250067300003&auloc=2&fullauth=%20(Wall,%20Alan)&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., [Brooks P](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=Z28LDfCp1HG67PJhPNL&Func=OneClickSearch&field=AU&val=Brooks+P&ut=000250067300003&auloc=3&fullauth=%20(Brooks,%20Philip)&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., [***Wang J***](http://apps.isiknowledge.com/WoS/CIW.cgi?SID=Z28LDfCp1HG67PJhPNL&Func=OneClickSearch&field=AU&val=Wang+J&ut=000250067300003&auloc=4&fullauth=%20(Wang,%20Jin)&curr_doc=1/2&Form=FullRecordPage&doc=1/2)., “Automatic identification system (AIS): Data reliability and human error implications”, Journal of Navigation, Vol.60, No.3, Sept., 2007, 373-389 (ISSN: 0373-4633).
19. Ren J., ***Wang J***., Jenkinson I., Xu D.L., Yang J.B., “A Bayesian network approach for offshore risk analysis through linguistic variable”, China Ocean Engineering, Vol.21, No.3, 2007, 371-388 (ISSN: 0890-5487).
20. Eleye-Datubo A., Wall A., Saajedi A., ***Wang J.,*** “*Marine and offshore safety assessment by incorporative risk modelling in a fuzzy-Bayesian network of an induced mass assignment paradigm”*, Risk Analysis, Vol.8, No.1, 2008, 95-112.
21. Xie X.L., Xu D.L., Yang J.B., ***Wang J.,*** Ren J., Yu S.J., “*Ship selection using a multiple criteria synthesis approach*”, Marine Technology Society Journal, Vol.3, Issue 1, 2008, 50-62.
22. Yang Z., Bonsall S., ***Wang J*.,** “*Fuzzy rule-based Bayesian reasoning approach for prioritisation of failures in FMEA”,* IEEE Transactions on Reliability, Vol.57, No.3, 2008, 517-528 (ISSN: 0018-9529).
23. Liu J., Yang J.B., Ruan D., Martinez L., ***Wang J.,*** “*Self-tuning of fuzzy rule bases with belief structures for engineering system safety analysis*”, Annals of Operations Research, Vo.163, Issue 1, 2008, 143-168.
24. Godaliyadde D., Godaliyadde D.D.K., Phylip-Jones G., Yang Z.L., Batako A.D., ***Wang J.,*** “A subjective cost-benefit analysis approach for selecting ship propulsion systems”, Marine Technology Society Journal, Vol.42, No.4, 2008, 69-86.
25. Ren J., Jenkinson I., ***Wang J.,*** Xu D.L., Yang J.B., “*A methodology to model causal relationships on offshore safety assessment focusing on human and organisational factors*”, Journal of Safety Research, Vol.39, No.1, 2008, 87-100.
26. Yang Z., ***Wang J.,*** Bonsall S., “*Use of hybrid multiple uncertain attribute decision making techniques in safety management*”, Expert Systems with Applications, Vol.36, Issue 2, 2009, 1569-1586.
27. Jones B., Jenkinson I., ***Wang J.,*** “*Methodology of using delay-time analysis for a manufacturing industry*”, Reliability Engineering & System Safety, Vol.94, Issue 1, 2009, 111-124 (ISSN: 0951-8320).
28. Yang Z., ***Wang J.,*** Bonsall S., Fang Q., “*Maritime security: assessment and management*”, Risk Analysis, Vol.29, No.1, 2009, 95-120.
29. Ung S., Bonsall S., Williams V., ***Wang J.***, “*The risk assessment and management of port security using fuzzy modelling*”, Marine Technology, Vol.46, Issue 2, 2009, 61-73 (ISSN: 0025-3316).
30. [Moghadam M.K](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=X15igFAHBConHO2e6JJ&name=Moghadam%20MK&ut=000269761900004&pos=1)., [Bonsall S](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=X15igFAHBConHO2e6JJ&name=Bonsall%20S&ut=000269761900004&pos=2)., ***Wang J***., [Wall A](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=X15igFAHBConHO2e6JJ&name=Wall%20A&ut=000269761900004&pos=4)., “Application of Multiple Attribute Decision-Making (MADM) and Analytical hierarchy process (AHP) methods in the selection decisions for a container yard operating system”, Marine Technology Society Journal, Vol.23, Issue 3, 2009, 34-45.

### Yang Z., Maistralis E., Bonsall S., Wang J., “Incorporating uncertainty and multiple criteria in vessel selection”, Proceedings of the Institution of Mechanical Engineering Part M – Journal of Engineering for the Maritime Environment, Vol.223, Issue M2, 2009, 177-188.

1. Yang Z.L., Mastralis L., Bonsall B., ***Wang J***., “Incorporating uncertainty and multiple criteria in vessel selection”, Proc. IMechE Part M: J. Engineering for the Maritime Environment, Vol.223, 2009, 177-188.
2. Ren J., ***Wang J.,*** Jenkinson I., Xu D.L., Yang J.B., “*An offshore risk analysis method using fuzzy Bayesian network*”, Journal of Offshore Mechanics and Arctic Engineering, Vol.131, Issue 4, 2009, article no. 041101.
3. Celik M., Miri Lavasani S., ***Wang J.***, “A risk-based modelling approach to enhance shipping accident investigation”, Safety Science, Vol.48, No.1, 2010, 18-27.
4. Jones B., Jenkinson I., Yang Z., ***Wang J.,*** “*The use of Bayesian network modelling for maintenance planning in a manufacturing industry*”, Reliability Engineering & System Safety, Vol.95, Issue 3, 2010, 267-277 (ISSN: 0951-8320).
5. Jones B., Jenkinson I., ***Wang J***., “The use of fuzzy set modelling for maintenance planning in a manufacturing industry”, Proceeding of IMechE Part E – Journal of Process Mechanical Engineering, Vol.224, Issue E1, 2010, 35-48.
6. Yang Z., ***Wang J***., Bonsall S., “Facilitating uncertainty treatment in the risk assessment of container supply chains”, Journal of Marine Engineering and Technology, Vol.A17, 2010, 23-36.
7. [Godaliyadde D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Godaliyadde%20D&ut=000278413500002&pos=1)., [Phylip-Jones G](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Phylip-Jones%20G&ut=000278413500002&pos=2)., [Yang Z.L](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Yang%20ZL&ut=000278413500002&pos=3)., [Batako A.D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Batako%20AD&ut=000278413500002&pos=4)., [***Wang J***](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Wang%20J&ut=000278413500002&pos=5)***.***, “A subjective risk-estimation approach for modeling ship hull vibration”, Journal of Ship Research, Vol.54, Issue 2, 2010, 95-108.
8. [Godaliyadde D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Godaliyadde%20D&ut=000278413500002&pos=1)., Godeliyadde L.B., [Phylip-Jones G](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Phylip-Jones%20G&ut=000278413500002&pos=2)., [Yang Z.L](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Yang%20ZL&ut=000278413500002&pos=3)., [Batako A.D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Batako%20AD&ut=000278413500002&pos=4)., [***Wang J***](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Wang%20J&ut=000278413500002&pos=5)., “A subjective multiple criteria decision making approach for modelling ship hull vibration”, Marine Technology Society Journal, Vol.44, Issue 5, 2010, 25-42.
9. Karahalios H., Yang Z.L., Williams V., ***Wang J***., “A proposed system of hierarchical scorecards to assess the implementation of maritime regulations”, Safety Science, Vol.49, 2011, 450-462.
10. Nwaoha T.C., Yang Z., ***Wang J***., Bonsall S., “Application of genetic algorithm to risk-based maintenance operations of liquefied natural gas carrier system”, IMechE Proceedings Part 3, Journal of Process Mechanical Engineering, Vol. 225, Issue E1, 2011, 40-52.

### [Godaliyadde D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Godaliyadde%20D&ut=000278413500002&pos=1)., Godeliyadde L.B., [Phylip-Jones G](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Phylip-Jones%20G&ut=000278413500002&pos=2)., [Yang Z.L](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Yang%20ZL&ut=000278413500002&pos=3)., [Batako A.D](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Batako%20AD&ut=000278413500002&pos=4)., [Wang J](http://apps.isiknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&db_id=&SID=Z2D55n3KGGMkIO6De36&name=Wang%20J&ut=000278413500002&pos=5)., “A subjective risk management approach for modelling of failure induced ship operations”, Journal of Marine Engineering and Technology, Vol.10, Issue 2, 2011, 3-16.

### Mokhtari K., Ren J., Roberts C., Wang J., “Application of a generic bow-tie based risk analysis framework on risk management of sea ports and offshore terminals”, Journal of Hazardous Materials, Vol.192, Issue 2, 2011, 465-475.

### Nwaoha T.C., Yang Z., Wang J., “A new fuzzy evidential reasoning method for risk analysis and control of a liquefied natural gas carrier system”, Proceedings of the Institution of Mechanical Engineers Part M-Journal Of Engineering for the Maritime Environment , Vol. 225, Issue M3, 2011, 206-225.

### Yang Z., Wang J., Bonsall S., “Approximate TOPSIS for vessel selection under uncertain environment”, Expert Systems with Applications, Vol.38, Issue 12, 2011, 14523-14534.

### Cunningham A., Wang W., Zio E., Allanson D., Wall A., Wang J., “Application of delay-time analysis via Monte Carlo simulation”, Journal of Marine Engineering and Technology. Vol.10, Issue 3, 2011, 57-72.

### Lavasani S.M., Yang Z., Finlay J., Wang J., “Fuzzy risk assessment of oil and gas offshore wells”, Process Safety and Environmental Protection, Vol.89, Issue 5, 2011, 277-294.

### [Mokhtari K.](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&colName=WOS&SID=U18ENjaG6OL@BDegDib&field=AU&value=Mokhtari,%20K), [Ren J.,](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&colName=WOS&SID=U18ENjaG6OL@BDegDib&field=AU&value=Ren,%20J) [Roberts C.,](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&colName=WOS&SID=U18ENjaG6OL@BDegDib&field=AU&value=Roberts,%20C) [Wang J](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&colName=WOS&SID=U18ENjaG6OL@BDegDib&field=AU&value=Wang,%20J)., “Decision support framework for risk management on sea ports and terminals using fuzzy set theory and evidential reasoning approach”, Expert Systems with Applications, Vol.39   Issue 5, 2012, 5087-5103.

### Li K.X., Yin J., Banga H.S., Yang Z.L., Wang J., “Bayesian network with quantitative input for maritime risk analysis”, Transportmetrica, 2012.

### Wang J., Wall A., Matellini D.B., Phips J., “Risk-based verification of large offshore systems”, Institution of Mechanical Engineers Part M - Journal of Engineering for the Maritime Environment , Vol. 226, Issue 3, 2012, 273-298.

### Riahi R., Jenkinson I., Bonsall S., Wang J., “A seafarer’s reliability assessment incorporating subjective judgements”,Institution of Mechanical Engineers Part M - Journal of Engineering for the Maritime Environment , Vol. 225, Issue M3, 2012, 1-22.

### Yang Z.L., Zhang D., Caglayan O., Jenkinson I.D., Bonsall S., Wang J., Huang M., Yan X.P., “Selection of techniques for reducing shipping NOx and SOx emissions”, Transportation Research Part D-Transport And Environment, Vol.17, Issue 6, 2012, 478-486.