

ERGOSHIP 2021

2~3 September 2021

Korea Institute of Maritime and Fisheries Technology, The Republic of Korea

DAY 1		Offline (KIMFT) & Online (ZOOM)
Session Chair	Chong Ju Chae (Korea Institute of Maritime and Fisheries Technology) Seojeong Lee (Korea Maritime and Ocean University)	
Date	2 September 2021 (Thursday)	
Time	16:00-19:15 (KST), 09:00-12:15 (CEST)	
	KST 16:00-16:15 (15') CEST 09:00-09:15 (15')	Opening Ceremony (Opening Remarks) <i>Dong Jae Lee</i> (President, Korea Institute of Maritime and Fisheries Technology) (Welcome Speech) <i>Jin Kim</i> (Principal Researcher, Korea Research Institute of Ships and Ocean Engineering)
KS1	KST 16:15-16:40 (25') CEST 09:15-09:40 (25')	Keynote Speech Human Factors In a World of Automation <i>M. Lützhöft¹ and Thomas Porathe²</i> ¹ Western Norway University of Applied Sciences, ² Norwegian University of Science and Technology
	KST 16:40-16:45 (05') CEST 09:40-09:45 (05')	Short Break
TP1	KST 16:45-17:05 (20') CEST 09:45-10:05 (20')	Navigational Situation Clustering of Human-operated Ships for Autonomous Ship Development <i>T. W. Hwang and I. H. Youn</i> Mokpo National Maritime University
TP2	KST 17:05-17:25 (20') CEST 10:05-10:25 (20')	Design of Unmanned Ship Heading Controller Based on Fuzzy PID Control <i>Qingxin Yan, Shuaixiang Zheng, and Hongxu Guan</i> Wuhan University of Technology, Hubei Key Laboratory of Inland Navigation Technology
TP3	KST 17:25-17:45 (20') CEST 10:25-10:45 (20')	Human Factor and Ergonomic Issues in Maritime Autonomous Surface Ships <i>Hongtae Kim¹, Young-Hoon Yang¹, Tae-Hwan Joung¹, and Seojeong Lee²</i> ¹ Korea Research Institute of Ships and Ocean Engineering, ² Korea Maritime and Ocean University
	KST 17:45-17:50 (05') CEST 10:45-10:50 (05')	Short Break
TP4	KST 17:50-18:10 (20') CEST 10:50-11:10 (20')	Development of the Navigation Scenario Emulation Models to Avoid Learning Effect of Navigators <i>T. M. Hwang and I. H. Youn</i> Mokpo National Maritime University
TP5	KST 18:10-18:30 (20') CEST 11:10-11:30 (20')	Korean Ro-Pax Passenger Ship's for User Satisfaction: Improving Interior Design with Universal Design <i>J. Park and H. S. Lee</i> Korea Maritime and Ocean University
	KST 18:30-18:35 (05') CEST 11:30-11:35 (05')	Short Break

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TP6	KST 18:35-18:55 (20') CEST 11:35-11:55 (20')	Maritime Education for a Digital Industry <i>J. Scanlan¹, R. Hopcraft², JM. Trovåg¹, and M. Lützhöft¹</i> ¹ Western Norway University of Applied Sciences, ² University of Plymouth
TP7	KST 18:55-19:15 (20') CEST 11:55-12:15 (20')	Safety Equivalence of MASS Concepts <i>Tore Relling</i> Norwegian University of Science and Technology

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DAY 2		Online (zoom)
Session Chair	Margareta Holtensdotter Lützhöft (Western Norway University of Applied Sciences)	
Date	3 September 2021 (Friday)	
Time	16:00-19:10 (KST), 09:00-12:10 (CEST)	
KS2	KST 16:00-16:25 (25') CEST 09:00-09:25 (25')	Keynote Speech A Maritime Smart Technologies Ecosystem? <i>Jonathan Earthy</i> Lloyd's Register Maritime, University of Western Norway
FP1	KST 16:25-16:45 (20') CEST 09:25-09:45 (20')	Vessel Navigational Pattern Analysis due to Boating Under the Influence of Alcohol <i>W. Tyasayumranani and I. H. Youn</i> Mokpo National Maritime University
	KST 16:45-16:50 (05') CEST 09:45-09:50 (05')	Short Break
FP2	KST 16:50-17:10 (20') CEST 09:50-10:10 (20')	Your Friendly and Communicative MASS: Interaction Design Between Autonomous and Manned Vessels <i>T. Porathe</i> Norwegian University of Science and Technology
FP3	KST 17:10-17:30 (20') CEST 10:10-10:30 (20')	Integrating Human Factors in Risk-based Design: A Critical Review <i>N. P. Ventikos, K. Louzis, P. Sotiralis, A. Koimtzooglou, and E. Annetis</i> National Technical University of Athens
FP4	KST 17:30-17:50 (20') CEST 10:30-10:50 (20')	Designing for Trustworthiness, Training for Trust. An Overview of Trust Issues in Human Autonomy Teaming <i>A. Hynnekleiv and M. Lützhöft</i> Western Norway University of Applied Sciences
	KST 17:50-17:55 (05') CEST 10:50-10:55 (05')	Short Break
FP5	KST 17:55-18:15 (20') CEST 10:55-11:15 (20')	Operationalizing COLREGs in Smart Ship Navigation: an Algorithm-based Decision Support System Study <i>K. Aylward, R. Weber, S. N. MacKinnon, and M. Lundh</i> Chalmers University of Technology
FP6	KST 18:15-18:35 (20') CEST 11:15-11:35 (20')	An Investigation into the Effect of Water Flow on Ship Maneuvering by CFD <i>Chen Peng, Xu Yanmin, and Guan Hongxu</i> Wuhan University of Technology
FP7	KST 18:35-18:55 (20') CEST 11:35-11:55 (20')	The Development of a Cyber Safety Culture <i>R. Hopcraft, K. Tam, K. Moara-Nkwe, and K. Jones</i> University of Plymouth
	KST 18:55-19:10 (15') CEST 11:55-12:10 (15')	Closing Summary <i>M. Lützhöft¹ and Chong Ju Chae²</i> ¹ Western Norway University of Applied Sciences, ² Korea Institute of Maritime and Fisheries Technology