

MTEC/ICMASS 2019 - Detailed Programme Wednesday November 13th

		Track 1		Track 2	
Paper #	Title	Authors	Paper #	Title	Authors
Wednesday Nov. 13th					
0800-0900	Registration in the foyer				
0900-1000	OPENING SESSION				
1000-1100	Plenary session				
<p>- Mr. Patrick Potgraven, Program manager of the Smart Shipping program of the Dutch Ministry of Infrastructure and watermanagement: "Strategy of the Ministry of Transport, Infrastructure and Watermanagement for Public-Private organization of Smart Shipping in the Netherlands"</p> <p>- Mr. Tom Eystø, Massterly, Norway: "Commercial and operational aspects of autonomous ships"</p> <p>- Mr. James Fanshawe, UK Marine Alliance, UK: "UK Code of Practice & Short Sea/Inland Waterway Operations"</p>					
1100-1120 BREAK					
1120-1300	Autonomous vessels - Safety, risk, SOLAS, COLREG		Maritime digitalisation - Navigation, Communication		
	- Considerations on the regulatory issues for realization of Maritime Autonomous Surface Ships	Megumi Shiokari, Susumu Ota	-	LTE massive MIMO (Pre-5G) test for land-to-boat scenarios in Oslo fjord	Kun Yang, Ning Zhou, Terje Røste, Heiki Neskvern, John Eriksen
	- Risk-based appraisal of MASS performance - Considerations, challenges and possible approaches	Kie Hian Chua, Dimitrios Konovessis, Imran Halimi Ibrahim	-	Maritime digitalization, opportunities for the maritime e-Nav industry when moving to Intelligent Navigation	Bjørn Åge Hjøllø
	- COLREG compliance for autonomous navigation systems	Øystein Engelhardtson	-	Operational data within the S-100 framework: challenges for the common maritime data structure	Yongqing Zhu, Renuga Kanagavelu, Ricardo Shirota Filho, Theint Theint Aye, Rick Siow Mong Goh
	- Towards Simulation based Verification of Autonomous Navigation Systems	Tom Arne Pedersen, Jon Arne Glomsrud	-	Digitalisation and predictive modelling of berth stay time windows for tanker operation enhancement	Deqing Zhai, Xiuju Fu, Haiyan Xu, Xiao Feng Yin, Vasundhara Jayaraman, Rick Goh
	- Experiences of main risks and mitigation in autonomous transport systems	S. O. Johnsen, G. Jenssen, T. Moen, Å. Hoem	-	An Efficient Computational Framework for Big Maritime Traffic Data Preprocessing	Xiuju Fu, Haiyan Xu, Vasundhara Jayaraman, Nasri Bin Oyhma, Liye Zhang, Zhe Xiao, Rick Goh
1300-1400 LUNCH					
1400-1500	Autonomous vessels - Safety, risk, SOLAS, COLREG		Maritime digitalisation - Data structures, Digital twins		
	- NYK's Approach for Autonomous Navigation – Structure of Action Planning System and Demonstration Experiments	Koji Kutsuna, Hideyuki Ando, Takuya Nakashima, Satoru Kuwahara, Shinya Nakamura	-	Development of Smart Digital Twin for Maritime Industry via O2DES Framework	Haobin Li, Xiaoming Yang, Zhuo Sun
	- Preliminary hazard analysis of a small harbour passenger ferry-results challenges and further work	Christoph Thieme, Chuanqi Guo, Ingrid B. Utne, Stein Haugen	-	On Risk of Digital Twin Implementation in Marine Industry: Learning from Aviation Industry	Michaela Ibrion, Nicola Paltrinieri, Amir R. Nejad
	- Inference Model of Collision Risk Index based on Artificial Neural Network using Ship Near-Collision Data	Ho Namgung, Jung Sik Jeong, Joo-sung Kim, Kwang-II Kim	-	Applications of Simulation-based Analysis by Digital Twins for Next Generation Ports	Chenhao Zhou, Loo Hay Lee, Haobin Li
1500-1520 BREAK					
1520-1640	Autonomous vessels - Safety, risk, SOLAS, COLREG		Maritime digitalisation - Data structures, Digital twins		
	- Risk analysis of collision via video processing algorithms in autonomous vessels operations	Behfar Ataei, Salman Nazir, Steven C. Mallam, Marius S. Tannum	-	Use of Uncertainty Zones for Vessel Operation in Inland Waterways	Marcus Kotze, Ali Bin Junaid, Muhammed Raheel Afzal, Gerben Peeters, Peter Slaets
	- Safe Communication for Maritime Autonomous Merchant Surface Ships	Stig Petersen, Bård Myhre, Are Hellandsvik	Maritime digitalisation - Design		
	- Learning from experience in the context of autonomous ships: An opportunity for a step change in generating safety knowledge	Konstantinos Louzis, Nikolaos P. Ventikos	-	User-centered design of remote-pilotage: Work styles to be considered	Tuisku Salonen, Mikael Wahlström, Hannu Karvonen
			-	Team & Research Based Learning Methods Applied in Multidisciplinary Marine Engineering Education	Amir R. Nejad, Yuriko Aoyanagi, Michaela Ibrion
	Autonomous vessels - Navigation				
	- An Experimental Result on Information Exchange using USV Communication Relay System	H. Namgung, Jung Sik Jeong, Jo-cheon Choi, Geun-ung, Kim and Sun-Young Kim	-	Development of an Automatic Analysis Methodology by Integration of Digital Hull Design, Model, Processing, and Evaluation	Xiuqing Xing, Chi Wan Lim, Joo Hock Ang, Chang Wei Kang, Peng Cheng, Jing Lou
1900-2130	Conference dinner at Scandic Nidelven Hotel				