

MTEC/ICMASS 2019 - Detailed Programme Thursday November 14th

Thursday Nov. 14th  
0900-1040

Track 1			Track 2			Track 3		
Paper #	Title	Authors	Paper #	Title	Authors	Paper #	Title	Authors
<b>Autonomous vessels - Navigation</b>			<b>Autonomous vessels - Design</b>			<b>Maritime digitalisation - Design</b>		
-	Dynamic "Standing orders" for Autonomous Navigation System by means of Machine Learning	Tina Scheidweiler, Hans-Christoph Burmeister, Sören Hübner, Carlos Jah	-	One Sea-vision and roadmap for autonomous maritime transport system	Jukka Merenluoto	-	Using the BIMCO Shipping KPI Database to Identify costs and benefits of e-navigation solutions	Kay Fjørtoft, Dag Atle Nesheim
-	Enhanced MASS Situational Awareness using Virtual Navigation Aids	R.Glenn Wright	-	Prediction of vessel propulsion power using machine learning on AIS data, ship performance measurements and weather data	Qin Liang, Hans Anton Tvete, Hendrik W. Brinks	<b>Green Shipping - Energy/Environment</b>		
-	Optimal Maneuvring and Control of Cooperative Vessels within Harbors	J. J. Gehrt, R. Zweigel, S. Roy, C. Buskens, M. Kurowski, T. Jeinsch, A. Schubert, M. Gluch, O. Simanski, E. Pairet-Garcia, W. Bruhn, F. Diegel, D. Abel	-	MASS-Potential Applications in Superyachts	Chris Balls	-	Biodosimetric Studies of Ballast Water Treatment	Li Hong Ying, H. Osman, C. W. Kang, J. Lou, T. Ba
-	The Autosea project: Developing closed-loop target tracking and collision avoidance systems	E F Brekke, E F Wilthil, B-O H Eriksen, D K M Kufalor, K Helgesen, I B Hagen, M Breivik, T A Johansen	-	A taxonomy for autonomous vehicles for different modes	Marialena Vagia, Ørnulf Rødseth	-	Is Methanol a Future Marine Fuel For Shipping	Ming Liu, Chen Li, Eng Kiong Koh, Zhiqian Ang, Jasmine Siu Lee Lam
-	Cooperative optimal coverage for seabed surveys with USVs	Stephanie Kemna, Henrik Lenes, Arild Hepsø	-	Enabling Technologies for Maritime Autonomous Surface Ships	Kevin Heffner, Ørnulf Rødseth	-	Optimized use of Energy Charged from Shore in Plug-in Hybrid Marine Vessels	Olve Mo, Giuseppe Guidi
-			-			-	Power Flow Analysis of DC Shipboard Microgrids	Chun-Lien Su, Zheng-Yi Jiang

1040-1100

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<b>Autonomous vessels - Navigation</b>			<b>Autonomous vessels - Design</b>			<b>Green Shipping - Design</b>		
-	Navigation behavioural decision-making of MASS based on deep reinforcement learning and artificial potential field	Wang Cheng-bo, Zhang Xin-yu, Zhang Jia-wei, Ding Zhiguo, An Lan-Xuan	-	A responsibility-centered approach to defining levels of automation	Bård Myhre, Are Hellandsvik, Stig Petersen	-	Optimal vessel speed and weather effects	Roar Ådland, Pierre Cariou, Francois-Charles Wolff
-	Framework for Motion Planning Based on Trajectory Prediction in Close Range Manoeuvring	Pierre Major, Guoyuan Li, Houxiang Zhang	-	AJA method and AJA Canvas as a Design Tool for marine Autonomous Operations with a test case scenario: the detection, inspection and tracking of a waste-water plume.	Maralena Vagia, Esten Ingar Grønli, Magnus Bjerkeng, Fredrik Bakkevig Haugli, Gorm Johansen	-	Dynamic manoeuvres of KCS in regular waves using URANS computations with overset grids	Yuting Jin, Allan R. Magee, Lucas J. Yiew, Yingying Zheng
-	Robust Guidance and Predictive Control for Marine Surface Vessels in Presence of Parameter Uncertainties and Disturbances	Max Lutz, Simon Helling, Thomas Meurer	-	Introduction and assessment of basic design concepts for autonomous ships in maritime transport systems for short sea shipping	Victoria Gribkovskaia, Elizabeth Lindstad, Håvard Nordahl, Henning Borgen	-	Cost-emission relations for maritime Logistics Support in Aquaculture	Hans Tobias Slette, B.E. Asbjørnslett, Kjetil Fagerholt
-	From Manoeuvr Assistance to Manoeuvr Automation	Agnes U. Schubert, Martin Kurowski, Robert Damerius, Sandro Fischer, Michael Gluch, Michael Baldauf, Torsten Jeinsch	-	Integrated Maritime Autonomous Transport Systems (IMAT)	Kay Fjørtoft, Tony Haugen	-	Autonomous marine vehicles in sea surveillance as one of the COMPASS2020 project concerns	Sanja Bauk, Nexhat Kapidani, Žarko Lukšić, Filipe Rodrigues, Luís Sousa
-	Study on Automatic Collision Avoidance System and Method for Evaluating Collision Avoidance Manoeuvring Results	Shinya Nakamura, Naoki Okada, Satoru Kuwahara, Koji Kutsuna, Takuya Nakashima, Hideyuki Ando	-	Enhanced test framework for safety assurance of autonomous navigation	Andreas Brandsæter, Knut Erik Knutsen, Vegard Kamsvåg	<b>Autonomous vessels - Strategy, business development</b>		
-	Comparing Spectral Bands for Object Detection at Sea using Convolutional Neural Networks	Jonathan D. Stets, Mogens Blanke, Rasmus H. Andersen, Søren Hansen, Frederik E.T. Schøller and Martin K. Plenge-Feidenhans	-	Human-centred maritime autonomy - An ethnography of the future	M. Lutzhoft, A. Hynnekleiv, J. V. Earthy, E. S. Petersen	-	Design of an Autonomous Underwater Maintenance Dredger	Rolph Hijdra, Stefan van der Harst
-			-			-	The automated and unmanned inland vessel	Edwin Verbergh, Edwin van Hassel

1300-1400

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<b>Autonomous vessels - Navigation</b>			<b>Autonomous vessels - Design</b>			<b>Autonomous vessels - Strategy, business development</b>		
-	Towards automated identification of ice features for surface vessels using deep learning	E Kim, N Panchi, G S Dahiya	-	A generic testbed for simulation and physical-based testing of maritime cyber-physical system of systems	Nick Rüssmeier, Arne Lamm, Axel Hahn	-	Autonomous maritime navigation: State of the art and futures perspectives	Yewen Gu, Stein W. Wallace, Mario Guajardo, Julio Cesar Goetz
-	Simplifying interactions between autonomous and conventional ships with e-navigation	Thomas Porathe, Ørnulf Jan Rødseth	-	Development and Field Tests of the MASS in Taiwan	Shean-Kwang CHOU	-	A Business Process Framework and Operations Map for Maritime Autonomous and Unmanned Shipping: MAUSOM	Harrie Bastiaansen, Elena Lazovik, Eric den Breejen, Hans van den Broek
-	Small MASS assisting manned merchant vessels: The anti-grounding case	Vincent Schneider, Cosmin Delea, Johannes Oeffner, Hans-Christoph Burmeister, Carlos Jah	-	Approach to estimate the ship center of gravity based on accelerations and angular velocities without ship parameters	Sovanna Chhoeung, Axel Hahn	-	Autostrip-Autonomous Systems in Transport and Industrial Processes.	Paal Aamaas

1500-1520

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<b>Autonomous vessels - Navigation</b>			<b>Autonomous vessels - Design</b>			<b>Autonomous vessels - Strategy, business development</b>		
-	A Public API Supporting Autonomous Navigation	Svein Peder Berge, Marianne Hagaseth, Torstein Bø	-	Design and build of a scale model unmanned inland cargo vessel: actuation and control architecture	Gerben Peeters, Tim Catoor, Muhammad Raheel Afzal, Marcus Kotze, Patrick Geenen, Senne Van Baelen, Maarten Vanierschot, Rene Boonen, Peter Slaets	-	Urban mobility at sea and on waterways in Norway	M. S. Tannum, J. H. Ulvenspøen
-	The Challenges and Issues for a Standard Data platform on the Autonomous Ship	Banseok Kum, Kwangil Lee	-	Ensuring High-Throughput Container Operations in Fully Automated Storage Yard of a Next-Generation Transshipment Port.	Zhaomeng Zhu and NGP Project Team	<b>Autonomous vessels - Navigation</b>		
-	Technology levels for maritime traffic coordination: towards the internet of intelligent ships	Mikael Wahlström, Eetu Heikkilä, Gøran Granholm	-	On estimating the hydrodynamic coefficients and environmental loads for a free-running vessel in waves	Lucas J. Yiew, Yuting Jin, Allan R. Magee	-	Maneuvering Motion Simulation to Support Berthing Operation of Small Crafts	Eiko Saito, Masayoshi Numano, Keiko Miyacaki
-			-			-	Seaworthiness Through Intelligent Trajectory Control	Guy A. Meadows, Robert Shuchman, Joseph Burns

1620-1630

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<b>Autonomous vessels - Navigation</b>			<b>Autonomous vessels - Design</b>			<b>Autonomous vessels - Strategy, business development</b>		
<b>BREAK</b>								
<b>CLOSING SESSION</b>								