Program for Ai-MAST 2016

*International conference on* **A***dvanced* **I***ntelligent* **Ma***ritime* **S***afety and* **T***echnology*

Main Issue: “A New Horizon of e-Navigation and Ocean Economy”

* Date : 12-15 Dec., 2016
* Venue : Mokpo National Maritime Univ., Mokpo & Jeju, KOREA
* Organized by Korea Maritime Institute

CK Agency for e-Navigation Human Resources Training

International Association of e-Navigation and Ocean Economy

* Sponsored by Ministry of Ocean and Fisheries, KRISO
* Supported by Korea P&I Club, Korea Maritime Pilots’ Association

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11 Dec., Sunday

19:00 **Welcoming Dinner** at Ocean Buffet, hosted by Prof. Gyei-kark PARK, General Chair

12 Dec., Monday

Opening & Plenary Session 1: at Auditorium MC: Dr. Onue BAIK

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| 08:30-09:30 | Registration |  |
| 09:30-09:40 | Opening Address | Prof. G.K. PARK, General Chair |
| 09:40-10:40 | **Key note Speech** | Chair: Prof. Jung Sik JEONG |
| Prof. Axel HAHN | *The Maritime Cloud On the way to an Internet of the Seas* |
| Prof. Sugeno MICHIO | *Evolution of Preference Models in Multi-criteria Decision Making* |
| 10:40-11:00 | Coffee Break |  |
| 11:00-12:00 | **Plenary Session 1** | Chair : Prof. G.K. PARK |
| Prof. A.H. SAHARUDDIN | *Departure Punctuality Model for Vessels in Liner Operations* |
| Prof. Baoding LIU | *Uncertainty Theory: A Branch of Mathematics for Modeling Belief Degrees* |
| 12:00-13:30 | Lunch at Auditorium | |
| 12:45-13:15 | Technical Tour for T/S Saenuri leaded by Prof. Hwa-young KIM | |

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| * Guideline for Presentation and Chair * Official Language : English * Time Limits (General Session only): 15 minutes for Presentation and 5 Minutes for Q&A (Considering the time of break, it might be extended.) * One of co-chairs(main chair) will chair the session, and another(sub-chair) will support the main chair. And Co-chairs are requested to evaluate the presentation for selecting the best presentation awards. * Chairs of each session are highly expected to announce the time of next sessions at the end of their sessions. |

e-Navigation Session I at Auditorium

Chair : Prof. Margareta LUTZHOFT & Dr. Sungkuk KIM

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| 14:00-15:20 | Thies BEINKE, Moritz QUANDT, Abderrahim AIT ALLA, Michael FREITAG, Thomas RIEGER | *Information System for the Coordination of Offshore Wind Energy Maintenance Operations under Consideration of Resource-specific and Dynamic Influences* |
| Choong Jung CHOI, Jung Sik JEONG | *Technology Strategy Based on IMO Agendas and Patent Analysis* |
| Thi Thanh Thao BUI, Chang Kyun NOH | *A Study Case on Bizsumer Marketing: Focusing on The Huen Company* |
| Gungho NAM, Jung Sik JEONG, Keon Ung KIM | Information Exchange for the Safe Operation of Unmanned Surface Vehicle |
| 15:20-15:40 | Break | |

Ocean Economy Session I at Rm 1200, 2nd Floor

Chair : Prof. H.R. KARIMI & Prof. Ousama IBRAHIM

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| 14:00-15:20 | Htet Htet Kyaw NYUNT,  Hyun Deok KIM | *Importance of Crew Resource Management training in Myanmar’s Maritime Environment* |
| Yong An PARK, Francesca Romana MEDDA | *Competition among Korean Container Ports in Inland Transport Networks* |
| Chien-Chag CHOU, Hua-Zhi HSU, Chung-Ping WU | From the 3rd to the 13th: Challenges that Kaohsiung Harbour is taking |
| Ung Gyu KIM | *Conceptual Approach on Buidling Shipborne Big Data* |
| 15:20-15:40 | Break | |

e-Navigation Session 2 at Auditorium

Chair: Dr. Ung-gyu KIM & Prof. Hwa-young KIM

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| 15:40-16:40 | Tu-nam LUONG, Van-Suong NGUYEN, Namkyun IM et al. | *Azimuth Method for Ship Position in Celestial Navigation* |
| Youngki KIM, Kiyeol SEO, Taehyun FANG, Sanghyun PARK | *A study on the DGPS protection level for navigation in harbour entrances and approaches* |
| Yancai HU, Qiang ZHANG, GK PARK | Robust Adaptive Fuzzy Design for Ship Linear-tracking Control with Input Saturation |
| 16:40-17:00 | Break | |

Ocean Economy Session 2 at Rm 1200, 2nd Floor

Chair : Prof. Qiang ZHANG & Dr. Yong An PARK

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| 15:40-1640 | Sungkuk KIM | *Analysis of Characteristics on the Marketing Communication in Container Ports* |
| Thies BEINKE, Annabell SCHAMANN, Michael FREITAG, Klass FELDMANN, Matthias BRAND | *Text-Mining and Gamification for the Qualification of Service Technicians in the Maintenance Industry of Offshore Wind Energy* |
| Minhduc NGUYEN, S.June KIM | The model to estimate the other user costs of container terminals in Northern Vietnam |
| 16:40-17:00 |  | |

Ocean Economy Session 3 at Rm 1200, 2nd Floor

Chair : Prof. Xiaowei CHEN & Prof. Serng-Bae MOON

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| 17:00-18:00 | Seunghee CHOI, Young Joung AHN | *Development of AIS-ASM Message based on Users Needs* |
| Ousama IBRAHIM, Hyun Deok KIM | *The Importance of Suez Canal on World Trade through Sustainable Development of Shipping and Cargo Handling* |
| Jian LI, Jiangxue Wen, Bao JIANG | *Spatial Spillover Effects of Transport Infrastructure in New Silk Road Economic Belt* |
| 18:30 | Dinner at Indoyang Restaurant | |

e-Navigation Session 3 at Auditorium

Chair : Prof. Hyun Deok KIM & Prof. Jinwu GAO

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| 17:00-18:00 | Chunki LEE, Serng-Bae MOON | *Development of Vessel’s Wind Warning Algorithm for Korean e-Navigation Service* |
| Qiang ZHANG, Na JIANG, Guibin ZHU et al. | Ship Course Tracking Robust Control Based on NNs |
| Younghoon HAN, Sangheon LEE, Kiyeol SEO, Sanghyun PARK | *An analysis of eLoran performance with locating new transmitter on South Korea* |
| 18:30 | Dinner at Indoyang Restaurant | |

13 Dec., Tuesday

Plenary Session 2: at Auditorium

Chair: Prof. A.H. SAHARUDDIN & Prof. Dong-kwan KIM

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| 09:00-11:00 | Joseph BADAJOS | *Enhancing Maritime Safety in the Philippines : The way Forward* |
| Margareta LUTZHOFT | *What is this thing called human error?* |
| Hui ZHANG, Hamid Reza KARIMI | *Fault Diagnosis of Electric Submersible Pump Based on Feature Extraction* |
| Behrouz Fathi VAJARGAH | *How we can improve the accuracy of Monte Carlo computations?* |
| 11:00-11:20 | Break | |

e-Navigation Session 4 at Auditorium

Chair : Prof. Axel HAHN & Prof. Myungjae KIM

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| 11:20-12:20 | Doyeon KIM, Gi-jong JO, Geonung KIM Mira Yi, Taeho HONG, GK PARK | *A Study on the identifying system of vulnerability for safe navigation* |
| Nguyen Thuy ANH, Gyei-Kark PARK, Hwa-Young KIM, Geonung KIM | *On the competitiveness of sea-ports in South East Asia with the application of Factor Analysis* |
| Thi Quynh Mai PHAM, Gyei-Kark PARK, Hwa-Young KIM | *Analysis on the effects of e-Navigation on improving Marine Transport Efficiency* |
| 12:20-13:30 | Lunch at Auditorium | |
| 13:00-13:30 | Technical Tour for Marine Simulator Center leaded by Prof. Taeho HONG | |

Ocean Economy 4 at Rm 1200, 2nd Floor

Chair : Prof. Bao JIANG & Prof. S. June KIM

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| 11:20-12:20 | Serng-Bae MOON, Tae-Goun KIM, Hae-Sang JEONG, Seung-Gi GUG | *Study on the Proper Rate of Light Due in the Philippines* |
| Ngo Phuong THAO, Daegwun YOON, Geon Ung KIM | *Criteria Evaluation for Performance Of Viet Nam Container Shipping Companies* |
| Yong An PARK | *Analysis on on-board Job Taking and Separation of Korean Merchant Seafarers* |
| 12:20-13:30 | Lunch at Auditorium | |

e-Navigation Session 5 : Theory at Auditorium

Chair : Prof. Hua-Zhi HSU & Mr. Thies BEINKE

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| 13:30-14:50 | Xiangfeng YANG | *Uncertain Heat Equations* |
| Jian ZHOU | *Uncertain Supply Chain Management* |
| Rong GAO | *Uncertain Wave Equation* |
| Xiaowei CHEN, GK PARK | *Nested Uncertain Differential Equations and Its Application to Multi-factor Term Structure Model* |
| 14:50-15:10 | Break |  |

Ocean Economy 5 at Rm 1200, 2nd Floor

Chair : Prof. Zhongfeng QIN & Mr. MinhDuc NGUYEN

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| 13:30-14:50 | Yong An PARK, F.R. MEDDA | *Spatial Development Effects of Container Ports on Apparel Industry in Korea* |
| Dai Duong NGUYEN, Gyei-kark PARK, Hwa-Young KIM, Geon-Ung KIM | *Port information systems in world major ports and application in Vietnam* |
| Myung-Jae KIM | *A Study on Activating the Coastal Passenger Routes in the Philippines* |
| Sang-jae LEE, Kil-yong KIM, Hyun-gon SON, Gyei-kark PARK | *A Study on the developments of small-vessel fishing identification using low-power telecommunications technology* |
| 14:50-15:10 | Break | |

e-Navigation 6 at Auditorium

Chair : Prof. Jian ZHOU & Dr. Chunghwan LEE

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| 15:10-16:30 | Zhongfeng QIN | *Uncertain p-hub location  optimization problem* |
| Yong An PARK, T.L. YIP | *Probability Analysis of Marine Accidents during Pilotage in Korea* |
| Jinwu GAO | *Uncertain differential Game* |
| Tae Hyun Fang, Sangheon Lee, Sul Gee Park, Sang Hyun Park, Kiyeol Seo, Youngki Kim | *Methods for Evaluating Dynamic Accuracy of Integrated DGPS/INS Algorithm Using Antenna Cluster with Network RTK and Post-processed Charier Phase DGPS* |
| 16:30-16:50 | Break |  |

e-Navigation Session 7 at Rm 1200, 2nd Floor

Chair : Prof. B.F. VAJARGAH & Prof. Yeonwon KIM

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| 15:10-16:10 | Thies BEINKE, Abderrahim AIT ALLA, Michael FREITAG | *Resource Sharing in the Logistics of the Offshore Wind Farm Installation Process – a Simulation Study* |
| Qian WANG, Qiang ZHANG, Caifan WANG | *Survey on Reviews of Global Piracy Activities and the Response Measures* |
| Noor Apandi OSNIN, A.H. SAHARUDDIN | *Navigational Safety in Man-made Lakes – Kenyir Lake as a Case Study* |
| Seung Hyun YUN, Hwa young KIM | *Analysis of Operational Efficiency on Automobile port of Korea* |
| 16:10-16:30 | Break |  |

12 Dec., Monday

Special Student Session 1 at Library Auditorium

Chair: Prof. Kwang AN & Prof. Jaewoong LEE

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| 14:00-14:15 | Prof. Axel HAHN | *What is e-Navigation?* |
| 14:15-14:30 | Prof. Hamid Reza KARIMI | *e-Navigation and Fault Diagnosis* |
| 14:30-14:40 | Break |  |
| 14:40-16:05 | Su Yeon KIM, Chang Hyuck PARK, Dong Ju PARK, Yu Jin KIM, and Dong Kwan KIM | *Development of a Smart Shopping System for Healthy Living* |
| Hyun Il CHA, Jiwon KIM, Cha Hee HYUN, Jung Sik JEONG | *A Study on Prevention of Life in the enclosed spaces for cargo ship* |
| Seunghun KANG, Eunah LEE, Gayeong RYU, Kwang AN | *Consideration of User-needs for the Development of S-Mode* |
| Dangyeong KWON, Minchae JEONG, Donghun JO, Gyei-kark PARK | *Analysis of Hazardous Elements to Implement Navigational Risk* |
| Kihun CHONG, Jounghyun SHIN, Subin MOON, Taeho HONG | *Suggestion for use of ENC on coast vessel* |
| 16:05-16:15 | Break | |

Special Student Session 2 at Library Auditorium

Chair: Prof. Jung Sik JEONG & Prof. Taeho HONG

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| 16:15-16:30 | Prof.Margareta LUTZHOFT | *e-Navigation and human error* |
| 16:30-16:45 | Prof. A.H. SAHARUDDIN | *e-Navigation and Efficient transportation at sea* |
| 16:45-16:55 | Break |  |
| 16:55-17:55 | Jaemin LEE, Ilgwon SON, Dongkuk SONG, Mira YI and Youngchul LEE | *Private Charging System Using Smart Electric Socket in Multi-use Facility* |
| Seunghwan MA, Minji KIM, Hanbyul LEE, Woonjae JANG | *A study on amendment of SOLAS to introduce Self Ant- Piracy Device* |
| Jae yeop LIM, Jeong woo CHOI, Tae woo KIM,  Hyun su KIM, Yong hwan BYEN and Jae ung LEE | *A study on the steam turbine propulsion system development trend for LNG carrier* |
| Jung Min CHU, Jin young HAN, Kyung nam ROH,  Ji hae JUN, Young wuon CHO and Jae ung LEE | *A study on the economic evaluation analysis of dual fuel engine propulsion system for LNG carrier* |

13 Dec., Tuesday

Closing Ceremony

Venue: Auditorium Chair: Prof. S. June KIM

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| 17:00 | Analysis of Ai-MAST : Past and Future | Prof. Jung Sik JEONG |
| 17:15 | Awarding Ceremony | 1. The Best presentation 2. The Award of Future Scientist 3. The Best Papers |
| 17:40 | Farewell Address | Prof. G.K. PARK |
| 17:50 | Memorial Photo |  |
| 18:00-20:00 | Farewell Dinner | at Indoyang Restaurant |
| 22:30 | Onboard Jeju Cruise Ship |  |

14 Dec., Wednesday

Technical and Cultural Tour around Jeju island

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| * Information * General Chair: G.K. Park, (MP) : 010-3207-2344 * Organizing Chair: Jung Sik JEONG, (MP) : 010-9214-8698 * Program Chair: S.June KIM, (MP) : 010-3427-8463 |

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