

Program for Ai-MAST 2014

International Symposium on Advanced Intelligent Maritime Safety and Technology

Main Issue: “e-Navigation and Maritime Safety”

- Date : 15-17 May, 2014
- Venue : Marine Engineering Building, Mokpo National Maritime University
- Organized by KAIMST(Korea Advanced Institute for Maritime Safety and Technology)
- Sponsored by Ministry of Ocean and Fisheries, KIMST
- Supported by GMT Cybernetics Co. Ltd., Hyundai e-Marine Co. Ltd.

14th May, Wednesday

19:00 **Welcoming Dinner** at Cinema Buffet Ocean held by Dr. GK Park, General Chair

15th May, Thursday

Venue: Auditorium at Ground Floor

Chair: Prof. Jung Sik JEONG

09:00-10:00	Registration	
10:00-10:15	Opening Address	Prof. G.K. PARK, General Chair
10:15-10:25	Welcoming Address	Dr. M.S. CHOI, President of MMU
10:25-10:50	Special Speech Prof. Baoding LIU, China	<i>Uncertainty Theory: A Branch of Mathematics for Modeling Belief Degrees</i>
10:50-11:10	Break	

Chair : Prof. A.H. SAHARUDDIN

11:10-11:30	Keynote Speech 1: Prof. Takeshi SHINODA, Japan	<i>Risk Assessment Approach for improvement of Maritime Safety</i>
11:30-11:50	Keynote Speech 2: Prof. Axel HAHN, Germany	<i>Safety Assessment in e-Navigation</i>
11:50-12:00	Memorial Photo	In front of Building

12:00-13:30	Lunch	Daeban Buffet Restaurant, Near Shinan Beach Hotel
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Special Session I : e-Navigation at Auditorium, Ground Floor

Chair: Prof. Xiaowei CHEN

13:30-13:50	Kwang-Il KIM, Jung Sik JEONG, Gyei-Kark PARK	Development of a maritime traffic grid database for e-Navigation
13:50-14:10	Hans-Christoph BURMEISTER, Wilko BRUHN, Ørnulf Jan RØDSETH, Thomas PORATHE	Autonomous unmanned merchant vessels and its contribution towards the e-Navigation implementation: The MUNIN perspective
14:10-14:30	Xiang LI	Decision Making under Uncertainty
14:30-14:50	Break	

Chair: Prof. Hua-Zhi HSU

14:50-15:10	Hahn KANG, Jung Sik JEONG	Maritime LTE Broadband, still an option?
15:10-15:30	Andrzej FELSKI	The experience in exploitation of AIS in the context of the safety at sea
15:30-15:50	Ji-Hyun OH, Kwang-il KIM, Jung Sik JEONG	A study on fishing vessel for prevention of marine accident
15:50-16:10	Break	

Chair: Prof. Yuhong SHENG

16:10-16:30	Yoon-Ho KANG, Jung Sik JEONG, Jae-Yong JEONG	Marine Spatial Planning in VTS
16:30-16:50	Ji-Won PARK, Jong-Myeon JEONG	Ship Extraction and Tracking Algorithm for Safety Navigation
16:50-17:10	Young Ha RYU, Gyei Kark PARK, Hwa Young KIM	A Study on the Advancement of GICOMS using FSM method
17:10-17:30	Break	

Chair: Prof. Dong-kwan KIM

17:30-17:50	Young-Ki KIM, Kiyool SEO, Wonseok JANG, Gyei-Kark PARK	A Design of an Onboard Data Architecture for Situation Awareness of a Navigator
17:50-18:10	Joo-Sung KIM, Jung Sik JEONG, Gyei-Kark PARK	Application of Planned Routes and Dead Reckoning Positions for supporting Decision-making of Vessel Traffic Service
18:10-18:30	Yasuyuki NIWA, Hisaya MOTOGI, Chihiro NISHIZAKI, et al.	Ship-to-Ship Radiocommunication Trial by Using Wireless LAN
19:00-20:30	Dinner	Indoyang Seafood Restaurant

16th May, Friday

General Session I: Advanced Intelligent Technology for Maritime Safety(I) at Auditorium, Ground Floor

Chair: Prof. Andrezej FELSKI

09:00-09:20	Nam-Kyun IM, Bo-Ra CHOI	A study on the SEEMP for CO2 reduction from ships
09:20-09:40	Hua-Zhi HSU	Safety domain measurement of overtaking situation
09:40-10:00	Bao JIANG, Jian LI, Xing-xing YANG	Research on the Influences of Ownership Structure to Operation Performance about Listed Port Companies
10:00-10:20	Break	

Chair: Prof. NamKyun IM

10:20-10:40	Taek-Keun NAM, Chang-Hyun JUNG, Jin-Man KIM	A study on the towline force of T/S Saeyudal with experiments
10:40-11:00	Yukinobu HOSHINO, Takeshi Fuyuki MATSUSHIMA et al.	Human computer interfaces for controlling robots and rehabilitation
11:00-11:20	Chang-Hyun JUNG, Taek-Keun NAM, Jin-Man KIM	A study on the calculation of ship's resistance for T/S Saeyudal
11:20-11:40	Kenichi YAMAGUCHI, Hyun Kwon HA	Precious metal compounds for insoluble electrode-In Ballast Water Management System (BWMS)-
12:00-13:00	Lunch	Daeban Buffet Restaurant
13:20-13:40	Free Tour on Simulation Center	5 th Floor at 2 nd Engineering Building, just opposite Building of Venue

General Session II: Advanced Intelligent Maritime Management at [Auditorium](#),
Ground Floor

Chair: Prof. Baoding LIU

14:00-14:20	Youngseok HA, Jung-Soo SEO	An Analysis of Korea-Europe Trade via the Northern Sea Route: Implications for Korea's Shipping Industry
14:20-14:40	Chang-Hyun JUNG,	Development of Early Detection System on Altering Course of a Target Ship
14:40-15:00	Seung-bin OH, Jun-Hyuk JANG, Hongtae KIM	A study on workload and performance of seafarer
15:00-15:20	Break	

Chair: Prof. Axel HAHN

15:20-15:40	Okan DURU	Irrationality in politics and governance of maritime affairs: The collapse of sovereign maritime governance
15:40-16:00	Xiaowei CHEN	Uncertain risk analysis in management sciences.
16:00-16:20	Jian LI, Bao JIANG, Xing-xing YANGg	Research on Performance Evaluation of Cooperation between Seaport and Dry Port□Case of Qingdao Port and Xi'an Port
16:20-17:00	Break	

Special Session II: Theory & Practice in Science and Technology at [Seminar Room](#), Second Floor

Chair: Mr. Hans-Christoph BURUMEISTER

10:00-10:20	Yuhong SHENG	Chance Distribution of the Maximum Flow of Uncertain Random Network
10:20-10:40	Sung-june KIM	Estimation of Sailing Speed performed by Columbus on his First Voyage, 1492
10:40-11:00	Wei DAI	Uncertain Logic Controller and Its Applications
11:00-11:20	Break	

Chair: Dr. Unggyu KIM

14:00-14:20	Do-Yeon KIM, Sang-Jae LEE, Gyei-Kark PARK, Jung Sik JEONG	A Study on Reconciliation Algorithm for Error of AIS Data using Fuzzy
14:20-14:40	N. S. F. ABDUL RAHMAN, A. H. SAHARUDDIN & H .Z. ROSLI	Innovation in Improving Vessels Safety Level : A Conceptual Approach to Overcome Passenger Overload Problem
14:40-15:00	Chang-Shing LEE	FML-based Website Performance Verification Mechanism for Adaptive Assessment System
15:00-15:20	Break	

General Session III: Advanced Intelligent Technology & Policy for Maritime Safety(II) at [Seminar Room](#), Second Floor

Chair: Mr. Yasuyuki NIWA

15:20-15:40	Ki-Yeol SEO	Method for User Integrity Assessment of Maritime PNT Information
15:40-16:00	Kai YAO	Replacement Policy in Uncertain Environment
16:00-16:20	Dongwoo KANG, Sewoong OH, Wooseong SHIM	Research on Validation Tool for ENC and MIOs
16:20-16:40	Ronald BARRO, Jung Sik JEONG	A Proposal for English Communication Skills Enhancement Onboard MMU Training Ships

Closing Ceremony

Venue: [Auditorium at Ground Floor](#)

Chair: Prof. S. June KIM

17:30-17:40	Awarding Ceremony	<ol style="list-style-type: none"> 1. The Best Papers 2. The Best presentation 3. The Award of Future Scientist 4. Appreciation Plaque
17:40-17:50	Acknowledgement Remarks	Baoding LIU/ Jung Sik JEONG
17:50-18:00	Concluding Address	Gyei-Kark PARK
18:00	Memorial Photo	
18:30-20:00	Farewell Dinner	Meonbada Restaurant

17th May, Saturday

Technical and Cultural Tour

09:00	Leave	
09:30-10:30	KIM Dae-jung Nobel Peace Prize Memorial	
11:30-12:00	Nokwoodang	Korea Traditional House
12:30	Lunch	Near Daehung Temple
13:30	Daehung Buddhist Temple	
15:00	Return to Hotel & Take Rest	
16:15	Leave Hotel	
17:00	Korea Traditional Performance	Jeonnam Traditional Performance Team
18:30	Farewell Dinner	Mihyang Restaurant