**Detailed Technical Program Schedule**

**November 18, 2015 (Wednesday)**

### REGISTRATION

**Venue:** Kobe International Conference Center-Lounge  
**Time:** 12:45-13:00

### OPENING CEREMONY

**Preeti Bajaj,** G.H.Raisoni College of Engineering  
**Koji Murai,** Kobe University

**Venue:** Kobe International Conference Center -Room -501  
**Time:** 13:00-13:15

#### Keynote Speech-1

**Chair:** Preeti Bajaj  
**Dr. U. B. Desai,** Director, IIT, Hyderabad

**Mieko Ohsuga,** Professor, Osaka Institute of Technology  
**Title:** “Past, Present, and Future of Driver Monitoring”  
**Chair:** Koji Murai, Kobe University

**Venue:** Kobe International Conference Center -Room -501  
**Time:** 13:15-14:00

#### Keynote Speech-2

**Tomasz M. Rutkowski,** University of Tsukuba  
**Title:** Recent Advances in Neurotechnology Applications Using Brainwaves for Thought-based Communication  
**Chair:** Syoji Kobashi

**Venue:** Kobe International Conference Center -Room -501  
**Time:** 14:00-14:45

### Coffee Break

**Venue:** Kobe International Conference Center–Lounge  
**Time:** 14:45-15:00

### Technical Sessions

**S1: SPECIAL SESSION ON HUMAN CENTERED TRANSPORTATION SYSTEMS**

**Chairs:** Tadatsugi Okazaki, Preeti Bajaj  
**Time:** 15:00-16:45

**Venue:** Kobe International Conference Center -Room -501
PID: 19 Development of Control System for Inverted Wheeled Robot on a Ship Predicting Ship's Rolling Motion
Kazuya Sasaki, Tadatsugi Okazaki

PID: 20 Education and Training on Causal Factors of Marine Collisions
Yoshiaki Kunieda, Kiminobu Kamada, Koji Murai and Hideyuki Kashima

PID: 32 The Human error reduction effect of Point and Call Checks on maritime education and training
Kenji Yoshimura, Kenjiro Hikida, Noriyuki Matsuzaki, Satoshi Yamamoto, Yasuhiko Sakane Shin Murata, Makoto Ogawa and Masashi Kasunoki

PID: 33 Development of Anvertising Support System Using with AR toolkit
Rei Takaseki, Runboh Nagashima, Hideyuki Kashima and Tadatsugi Okazaki

PID: 62 The Design and application of AIS Data Communication and Transfer Device
Jie Wang, Jiarento Nie and Ybing Wang

PID: 63 Feasibility Study of Measuring Heartbeat and Respiration by using Strain Gauge
Masakazu Arima, Hiroto Araki and Yuki Iwamoto

PID: 46 Driver's Behaviour Monitoring on Urban Roads of a Tier 2 City in India
Apoorva Mishra, Preeti Bajaj

S2: COMPUTATIONAL INTELLIGENCE

Chairs: Dinesh Padole, Mu-Chen-Chen
Venue: Kobe International Conference Center - Room 501
Time: 16:45-18:00

PID: 12 Feed Forward Neural Network optimization by Particle Swarm Intelligence
Pratik Hajare, Dr. Narendra Bawane

PID: 18 Design and Implementation of Wearable Device For Neuropathic Diabetic Foot Patients
Monali Madavi, Shubhangi Giripunje

PID: 25 Enhancing Cloud Security Using Multicloud Architecture and Device Based Identity
Rutuja Warhade, Basha Vankudothu

PID: 29 A Review Of On-Chip Spectral Analysis for Built-In Testing using FFT Engine
Manjiri Karandikar, Snehprabha Lad

PID: 31 Head Gesture Recognition System Using Adaboost Algorithm With Obstacle Detection
Rushikesh Bankar, Suresh Salankar

PID: 35 Design of Basic logic gates using Carbon Nano Tube Field Effect Transistor and Calculation of Figure of Merit
Pramod Yeole, Dinesh Padole

PID: 41 Area Efficient FFT/IFFT Processor Design for MIMO OFDM System in Wireless Communication
Laxman Thakare, Amol Deshmukh

PID: 42 Prevention of Simple Power Analysis Attacks in Elliptical Curve Cryptography on WSN Platform
Pritam Shah, Tabassum Ara, Vinay Hegde, Xu Huang and Javeria Ambareen

PID: 47 A Particle Swarm Optimization Approach for Route Planning with Cross-Docking
Mu-Chen Chen, Yu-Hsiang Hsiao, Himadeep Reddy and Manoj Kumar Tiwari

PID: 55 Key Factors of In-App Purchase for Game Applications
Long-Sheng Chen, Meng-Ru Lin
November 19, 2015 (Thursday)

Technical Sessions

S3: Late Breaking Paper Session

Chair: Takayuki Fujita, Prema Daigavane
Venue: Kobe International Conference Center -Room -501 Time:9:30-10:45

LBP1 Proficiency Characteristic of Maritime Student’s Radar Plotting
K. Murai, K. Kitamura, and A. Ikawa

LBP2 Displacement and Tilt Estimation of Contact Surface on Magnetic
Hiroyuki Nakamoto, Shiho Sasai, Futoshi Kobayashi and Fumio Kojima

LBP3 Tactile Sensor using Genetic Programming
Ichiro Hirata, Hiroyuki Nakamoto, Hideo Ootaka and Mitsunori Tada

LBP4 Application of stretchable sensor for human’s motion monitor
Extraction of frequent sub-sequences from time-series symbols— Changing the
number of sub-sequences to be extracted —
Kenta Morita, Haruhiko Takase, and Naoki Morita

LBP5 Pseudo Lateral Radiograph Synthesis Method for Computer-aided Surgical Planning of
Anterior Cruciate Ligament Reconstruction
Kento Morita, Md Belayat Hossain, Syoji Kobashi, Kaori Kashiwa, Hiroshi
Nakayama, Shunichiro Kambara, Masakazu Morimoto, Shinichi Yoshiya, Satoru
Aikawa

S4: INDUSTRIAL APPLICATIONS

Chairs: V.M.Kriplani, Weiping Wang Time:10:45-12:15
Venue: Venue: Kobe International Conference Center -Room -501

PID:7 Assessment of Biogas Generation Potential of Napier Grass
Anuradha Deshmukh, P.B.Nagarnaik and R.A.Daryapurkar

PID:15 Sensorless Field oriented control of PMSM Drive System for Automotive Application
Dr. M. B. Daigavane, Dr. S. R. Vaishnav and Mr. R. G. Shriwastava

PID:16 Traffic Video Surveillance using Contourlet Transform
Archana Boharapi, Shilpa Paygude, Vibha Vyas and M.S.Sutaone

PID:26 FPGA Implementation of Modulo (2^31 -1) Adder
R.D.Kharadkar, N.B.Hulle

PID:28 A Novel approach for the screening and the classification of Macular Ischemia caused by
Diabetic Retinopathy Disease using Retinal Image Datasets
W.V.Patil, Prema Daigavane

PID:36 Development of mathematical models for compressive strength of concrete containing quarry
dust and waste plastic as sand replacement
B.V.Bahoria, D.K. Parbat, P.B.Nagarnaik and U.P.Waghe
PID:38  A Heuristic Approach for Automated Mammogram Orientation in Computer Aided Diagnosis  
_Vibha Bora Bafna, Ashwin Kothari and Avinash Keskar_

PID:52  Optimization of PV-Wind Hybrid Renewable Energy system for Rural Electrification  
_Jyoti Falzele, M.B.Daigavane_

PID:54  Configuration Memory Based Dynamic Coarse Grained Reconfigurable Multicore Architecture for 8 point FFT  
_Rahul K.Hiware, Dinesh Padole_

PID:57  Experimental analysis on vapour compression-Thermoelectric hybrid refrigeration system  
_Siraj Sayyad, Uday Wankhede_

PID:65  Differential Protection of Three Phase Transformer Using Artificial Neural Network  
_P.B.Thote, M.B.Daigavane_

PID:67  Manufacturing difficulties encountered in generation of new profile for rotary compressor  
_Pravin K. Kature, Dr. Vilayat M.Kriplani_

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**Lunch Break**

**Venue:** Kobe International Conference Center–Lounge

**Time:** 12:15-13:15

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**Keynote Speech-3**

**Title:** Past, Present, and Future of Driver Monitoring

**Chair:** Koji Murai, Kobe University  
_Dr. U. B. Desai, Director, IIT, Hyderabad_

**Venue:** Kobe International Conference Center -Room -501

**Time:** 13:15-14:00

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**Keynote Speech-4**

**Title:** Analysis of Human Body Data for Internet of Health Care

**Chair:** Preeti Bajaj

**Venue:** Kobe International Conference Center -Room -501

**Time:** 14:00-14:45

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**Coffe Break**

**Venue:** Venue: Kobe International Conference Center–Lounge

**Time:** 14:45-15:00

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**Panel Discussion**

**Title:** Panel Discussion On Lifestyle-Related Disease Prediction Under Big Data Analysis

**Chair:** Yutaka Hata, University of Hyogo, JAPAN

**Venue:** Kobe International Conference Center -Room -501

**Time:** 15:00-16:00

**Panelists:**

Manabu Nii, Univeristy of Hyogo, JAPAN  
Naotake Kamiura, , JAPAN  
Masakazu Mormoto, , JAPAN  
Syoji Kobashi, JAPAN
S6: SPECIAL SESSION ON HUMAN FRIENDLY COMPUTING & APPLICATIONS

Chairs: Haruhiko Takase, Shubhangi Giripunje  
Venue: Kobe International Conference Center -Room -501

Time: 16:00-17:30

PID: 59  Medical Checkup and Image Data Analysis for Preventing Lifestyle Diseases  
Manabu Nii, Masakazu Morimoto, Syoji Kobashi, Naotake Kamiura, Yutaka Hata and Ken-Ichi Sorachi

PID: 66  Macrophage tracking using the Hungarian algorithm in time lapse MR images  
Atsushi Tashita, Syoji Kobashi, Yuki Mori, Masakazu Morimoto, Satoru Aikawa, Yoshichika Yoshioka and Yutaka Hata

PID: 69  4D simulator using evolving cellular automata for computer aided macrophage behavior analysis  
Yuichi Ishibashi, Manabu Nii, Daiki Komori, Takuya Iwamoto, Tomoharu Nakashima and Yutaka Komai

PID: 68  Supress Redundant Spikes in SpikeProp -Locally Application of Removing Redundant Delays-  
Takatoshi Nakayama, Haruhiko Takase, Takashi Matsumoto, Hiroharu Kawanaka and Shinji Tsuruoka

PID: 49  A Research on an In-house Training Software and its Application  
Weiping Wang

PID: 53  On Data Classification of Cataract Patients for Selecting Intraocular Lens Power Formula  
Naotake Kamiura, Manabu Nii, Takayuki Yamoto, Tomofusa Yamauchi and Hitoshi Tabuchi

PID: 61  On Recognition of Three-Dimensional Objects Using Curvature Information  
Keisuke Kudo, Teijiro Isokawa and Nobuyuki Matsui
Keynote Speech-5
Syoji Kobashi, Professor, University of Hyogo
**Title:** Developmental Retardation Quantification Based on Brain Morphometry Analysis
**Chair:** Koji Murai
**Time:** 10:00-10:45
**Venue:** Kobe University, Faculty of Maritime Sciences

Keynote Speech-6
Capt. Kazunori Fujise, Hakata Pilot Association, Japan
**Title:** Actual Maneuvering Performance of Big Cruise Vessel QUANTUM OF THE SEAS (168,666GT, 347.10m LOA) equipped with pod propulsion system.
**Chair:** Koji Murai
**Time:** 10:45-11:30
**Venue:** Kobe University, Faculty of Maritime Sciences

Simulator Site Visit
**Venue:** Kobe University, Faculty of Maritime Sciences
**Time:** 11:30-12:20