

❧ **CONFERENCE AT-A-GLANCE** ❧

Time	Conference Room A	Conference Room B
<b>March 22, 2015 (Sunday)</b>		
10:00-12:00	Register (Welcoming Drink/Snack)	
1 hr.	Lunch	
13:00-14:00	Keynote Speech (Assoc.Prof. Jun Takamatsu)	
14:00-14:45	Invited Talk (Dr. Junji Watanabe)	
15 min.	Coffee Break	
15:00-16:20 (1.20hr)	Session 1 (4) Classification	
<b>March 23, 2015 (Monday)</b>		
9:00-10:40 (1.40hr)	Session 2A (5) Detection	Session 2B (5) Control, Communications, and Power
20 min.	Coffee Break	
11:00-11:45	Invited Talk (Assoc.Prof. Krisanadej Jaroensutasinee)	
1.15 hr.	Lunch	
13:00-13:20	Opening Ceremony	
13:20-14:20	Keynote Speech (Prof. Akira Chiba)	
20 min.	Coffee Break	
14:40-16:20 (1.40hr)	Session 3A (5) Hardware/Software Implementation	Session 3B (5) Image processing
18:00-21:00	Banquet	
<b>March 24, 2015 (Tuesday)</b>		
8:20-10:00 (1.40hr)	Session 4 (5) Data Analysis	
10:00-10:45	Invited Talk (Prof. Kento Aida)	
15 minutes	Coffee Break	
11:00-11:45	Invited Talk (Mr. Motoharu Watanabe)	
1 hr.	Lunch	
12:45-14:25 (1.40hr)	Session 5 (5) Fingerprint and Object tracking	
20 minutes	Coffee Break	
14:45-15:45	Session 6 Short papers	

❧ Table of Contents ❧

<b>Keynote Speech</b>	<b>i</b>
<b>Associate Professor Jun Takamatsu, Nara Institute of Industrial Science and Technology</b>	<b>ii</b>
<b>Professor Akira Chiba, Tokyo Institute of Technology</b>	<b>ii</b>
<b>Invited Talk</b>	<b>iv</b>
<b>Dr. Junji Watanabe, NTT Communication Science Laboratories</b>	<b>v</b>
<b>Associate Professor Krisanadej Jaroensutasinee, Walailak University</b>	<b>vi</b>
<b>Professor Kento Aida, National Institute of Informatics</b>	<b>vii</b>
<b>Motoharu Watanabe, JICA Project for AUN/SEED-Net</b>	<b>viii</b>
<b>Session 1 : Classification</b>	<b>1</b>
1.1 Classifying Emotion in Thai YouTube Comments	
1.2 Automatic Wedge Tightness Classifying System by Support Vector Machine	
1.3 Design Pattern Recommendation: A Text Classification Approach	
1.4 Similarity Measures for FL0 Concept Descriptions from an Automata-Theoretic Point of View	
<b>Session 2A : Detection</b>	<b>3</b>
2A.1 A Drowsiness Detection Method using Distance and Gradient Vectors	
2A.2 Automatic blob-based Glistening Detection	
2A.3 Automatic Acne Detection for Medical Treatment	
2A.4 Smart Cage Using Object Detection	
2A.5 Multi Kinect Cameras Setup for Skeleton based Action Recognition	
<b>Session 2B : Control, Communications, and Power</b>	<b>5</b>
2B.1 Bilateral Control in Delta Robot by using Jacobian matrix	
2B.2 Quadrotor Tuning for Attitude Control based on PID Controller using Fictitious Reference Iterative Tuning (FRIT)	
2B.3 Modulation Performance for Visible Light Communications	
2B.4 Impacts of Home Electric Vehicle Chargers on Distribution Transformer in Thailand	
2B.5 An Investment Decision Support Tool for Horticulture with an Adaptive Energy Management System	

## ❧ Table of Contents ❧

<b>Session 3A : Hardware and Software Implementation</b>	<b>7</b>
3A.1 Design Space Exploration of Control System with Hardware-implemented Interrupt Handler	
3A.2 C-Based RTL Design Method for Circuit Switched Network on Chips	
3A.3 Design of Energy Harvesting Thermo Generator with Wireless Sensors in Organic Fertilizer Plant	
3A.4 An Efficient Way of Providing Information in Ubiquitous Tourist System	
3A.5 Branch Bitstream: Machine Instruction-level System Tracing	
<b>Session 3B : Image processing</b>	<b>9</b>
3B.1 Image Inpainting by Minimum Energy Restoration with Edge-Prioritized Filling Order	
3B.2 Glaucoma Screening using Rim Width based on ISNT Rule	
3B.3 A Saturation-based Image Fusion Method for Static Scenes	
3B.4 An SAR Image Speckle Removal Algorithm via Image Segmentation	
3B.5 A Level-based Method for Urban Mapping using NPP-VIIRS Nighttime Light Data	
<b>Session 4 : Data Analysis</b>	<b>11</b>
4.1 Cluster Analysis for Primary Feeder Identification Using Metering Data	
4.2 A Novel Method for Contact-free Heart Rate Measurement Using Simulink	
4.3 Rice Phenology Estimation Using SAR Time-series Data	
4.4 Ku-band (12 GHz) Earth-Space Rain Attenuation Statistics in Nonthaburi, Thailand, in 2013-2014	
4.5 EEG-Based Analysis of Auditory Stimulus in a Brain-Computer Interface	
<b>Session 5 : Fingerprint and Object tracking</b>	<b>13</b>
5.1 SIFT-based Algorithm for Fingerprint authentication on smartphone	
5.2 Fingerprint Recognition Performance with WSQ, CAWDR, and JPEG2000 Compression	
5.3 An EVolutionary Algorithm for Fingerprint Matching to Obtain a Diverse Database (EVAFMODD): It does not have to be like police fingerprint matching!	
5.4 A Particle Filter for Objects Tracking in Cognitive MIMO System	
5.5 A Robust Moving Object Tracking	
<b>Session 6 : Short Papers</b>	<b>15</b>
6.1 Underwater Positioning Systems for Underwater Robots Using Trilateration Algorithm	