

3rd IPS International Collaboration Conference

10-12 March 2010

Graduate School of Information, Production and Systems, WASEDA University
2-7 Hibikino, Wakamatsu-Ku, Kitakyushu, Fukuoka, 808-0135, Japan

SCHEDULE

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10th Mar. (Wed)

8:15 *pick up at the hotel lobby*

----- S104 ----

9:00 – 9:10 Opening Ceremony

Opening Address

Prof. Kotaro Hirasawa

Dean of Graduate School of Information, Production and Systems, Waseda University

Greeting from Our Special Guest

Mr. Toshikazu Sato

Senior Managing Director

Kitakyushu Foundation for the Advancement of Industry Science and Technology

----- S104 ----

9:20 – 10:20 C1: Collaboration Session (Peking University)

Session Chair: Prof. Sei-ichiro Kamata (Waseda University)

An introduction to research activities in School of Electronics Engineering
and Computer Science, Peking Univ.

Prof. Hongbin Zha

School of Electronics Engineering and Computer Science, Peking University

Omni-directional Range Sensing of Large Dynamic Environments
using an Intelligent Vehicle and Scene Understanding

Prof. Huijing Zhao

School of Electronics Engineering and Computer Science, Peking University

3D digitization for archeology and cultural heritage protection

Mr. Renju Li (Doctoral Student)

School of Electronics Engineering and Computer Science, Peking University

----- S104 -----

10:30 – 11:50 C2: Collaboration Session (Shanghai Jiao Tong University)

Session Chair: Prof. Sei-ichiro Kamata (Waseda University)

Research and Implementation of an Emotional TTS System
for a Book-Reading Robot (BRR)

Prof. Jie Zhu

*Department of Electronic Engineering, School of Electronic Information and Electrical
Engineering, Shanghai Jiao Tong University*

Research and Implementation of the Prosodic Adjustment Algorithm
for Mandarin Text-to-Speech

Mr. Yao Lv (Master Student)

*Department of Electronic Engineering, School of Electronic Information and Electrical
Engineering, Shanghai Jiao Tong University*

Hardware Design for Book-Reading Robot

Prof. Qunfei Zhao

*Institute of Image Processing and Pattern Recognition, School of Electronic,
Information and Electric Engineering, Shanghai Jiao Tong University*

A Thinning Based Stroke Extraction Method for Chinese Character Recognition

Mr. Xiaoyin Huang (Master Student)

*Institute of Image Processing and Pattern Recognition, School of Electronic,
Information and Electric Engineering, Shanghai Jiao Tong University*

----- S104 -----

12:00 – 12:30 C3: Collaboration Session (Waseda University)

Session Chair: Prof. Qunfei Zhao (Shanghai Jiao Tong University)

Fast Polar and Spherical Fourier Descriptors

Mr. Zhuo Yang (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Demonstration for a Book-Reading Robot, Ninomiya-kun

Prof. Sei-ichiro Kamata

Graduate School of Information, Production and Systems, Waseda University

12:30 – 13:30 Lunch

----- S104 ----

13:30 – 13:50 S1: Special Session

Session Chair: Prof. Ping Li (Shanghai Jiao Tong University)

Mixed Signal Design and Verification Technologies in Inoue Lab.
(Collaboration with Shanghai Jiao Tong University)

Prof. Yasuaki Inoue

Graduate School of Information, Production and Systems, Waseda University

----- S104 ----

14:00 – 15:30 C4: Collaboration Session (National University of Singapore,
Fudan University)

Session Chair: Prof. Osamu Yoshie (Waseda University)

Association Rules Mining for Corpus Interactive Exploration

Stephane Bressan and Hartanto Andreas

National University of Singapore

Manage Data Lineage in a Curated Database for Maritime Studies

Wei Ni and Stephane Bressan

National University of Singapore

Implicit feedback acquisition in presentation using digital pen

Chikara Otani, Yasushi Oda and Osamu Yoshie

Waseda University

Feasibility study: Chance discovery in machine diagnosis

Ning He, Nobuaki Ishii and Osamu Yoshie

Waseda University

Study of high absorption of solar film structure with spectral selectivity

Weixi Zhou and Liangyao Chen

Fudan University

15:30 – 15:50 *Coffee Break*

----- S104 -----

15:50 – 17:20 C5: Collaboration Session (Indian Institute of Technology Kanpur)

Session Chair: Prof. Harutoshi Ogai (Waseda University)

Multilevel Blast Furnace Simulation

Mr. Zhan Qi (Master Student)

Graduate School of Information, Production and Systems, Waseda University

**Modified Multi-objective Particle Swarm Optimization: Application
on Optimization of Diesel Engine Control Parameter**

Ms. Dongmei Wu (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Design and Development of an Energy Scavenging Mobile Charger

Mr. Atul R. Sultane (Master Student)

Department of Mechanical Engineering, Indian Institute of Technology Kanpur

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11th Mar. (Thu)

8:15 *pick up at the hotel lobby*

----- S104 ----

9:00 – 10:30 G1-1: General Session

Session Chair: Prof. Songrong Qian (Fudan University)

Design and evaluation of the Multi-Layer Routing NoC architecture

Ms. Fanglu Chen (Master Student)

Fudan University

CxPMAP: Embedded Network Mapping over Heterogeneous Networks
in a Reconfiguration Environment

Mr. Dong Zhang (Doctoral Student)

Zhejiang University

Algorithms for Processing Massive Data Sets

Mr. Purushottam Kar (Doctoral Student)

Department of Computer Science and Engineering,

Indian Institute of Technology Kanpur

----- S153,154 ----

9:00 – 10:30 G2-1: General Session

Session Chair: Prof. Qin Liu (Nanjing University)

Data Mining in Software Testing

Ms. Miao Yi (Master Student)

Nanjing University

Convex Hull Based Approach to Real-Time Fuzzy Switching Regression:
Evaluation of Steam Generator Performance

Mr. Azizul Azhar Ramli (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Multi-hierarchical Fuzzy Comprehensive Evaluation for Decision-making
of Very Large Scale Photovoltaic (VLS-PV) Power Plant

Mr. Biao Yang (Master Student)

Department of Illuminating Engineering & Light Sources,

School of Information Science and Engineering, Fudan University

----- S104 ----

10:40 – 12:10 G1-2: General Session

Session Chair: Prof. Jizhong Shen (Zhejiang University)

Switched Polarity Charge Pump for Non-Volatile Memory

Mr. Mengshu Huang (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

A Novel Low Power 8-Transistor 1-Bit Full Adder Cell

Mr. Yi Wei (Doctoral Student)

Zhejiang University

A Partial Ground Plane Based MOSFET on Selective Buried Oxide

Mr. Sajad Ahmad Loan (Doctoral Student)

Department of Mechanical Engineering, Indian Institute of Technology Kanpur

----- S153,154 ----

10:40 – 12:10 G2-2: General Session

Session Chair: Prof. Bishakh Bhattacharya (Indian Institute of Technology Kanpur)

Image Processing with General GPU Computing

Mr. Guangyue Sun (Master Student)

Shanghai Jiao Tong University

Parallel computing with Cydra

Mr. Yin Qiu (Master Student)

Nanjing University

A Distributed Bayesian Model for Multi-View Visual Tracking

Mr. Wei Feng (Doctoral Student)

Digital Signal Processing & Transmission Lab, Electronic Engineering Department,

Fudan University

12:10 – 13:00 *Lunch*

13:00 – 13:50 IPS Tour

----- S104 ----

14:00 – 15:30 G1-3: General Session

Session Chair: Prof. Pradipta Kumar Panigrahi (Indian Institute of Technology Kanpur)

Controlling friction-driven oscillations by time-delayed feedback

Mr. Ashesh Saha (Doctoral Student)

Smart Materials Structures and Systems Lab,

Department of Mechanical Engineering, Indian Institute of Technology Kanpur

Acceleration of Combinational Circuits

Targeted to FPGA Using Pipeline Technology

Mr. Yaozhong Wang (Master Student)

Graduate School of Information, Production and Systems, Waseda University

A low voltage CMOS rectifier for low power battery-less devices

Mr. Qiang Li (Master Student)

Graduate School of Information, Production and Systems, Waseda University

----- S153,154 ----

14:00 – 15:30 G2-3: General Session

Session Chair: Prof. Shigeru Fujimura (Waseda University)

Data Mining and Value-Based Software Engineering

Mr. Eryu Ding (Doctoral Student)

Nanjing University

Fuzzy Portfolio Selection Models with Value-at-Risk

Mr. Bo Wang (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Global Portfolio Diversification using Genetic Relation Algorithm

Mr. Victor Parque (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

15:30 – 15:50 Coffee Break

----- S104 ----

15:50 – 17:20 G1-4: General Session

Session Chair: Prof. Takeshi Ikenaga (Waseda University)

Computer Aided Reconstruction and Motion Analysis of 3D Mitral Annulus

Ms. Lidan Ma (Master Student)

Shanghai Jiao Tong University

Real-time Non-rigid Object Tracking Using CAMShift
with Weighted Back Projection

Mr. Lei Sun (Master Student)

Graduate School of Information, Production and Systems, Waseda University

Flexible Hilbert Scan Distance

Mr. Qi Cai (Master Student)

Graduate School of Information, Production and Systems, Waseda University

----- S153,154 ----

15:50 – 17:20 G2-4: General Session

Session Chair: Prof. Tomohiro Murata (Waseda University)

A support system for ice rescue

Mr. Carlos Madrazo (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Real Time Traffic Signal Learning Control Using BPNN based on Prediction
for Probabilistic Distribution of Standing Vehicles

Mr. Chengyou Cui (Doctoral Student)

Graduate School of Information, Production and Systems, Waseda University

Pattern recognition based fault diagnosis
on kernel sliced inverse regression subspace

Mr. Zhibo Zhu (Doctoral Student)

Zhejiang University

----- Event Hall of Conference Center ----

18:00 – 20:00 *Banquet*

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12th Mar. (Fri)

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| 8:50 | pick up at the front of IPS (for IPS faculty members and students) |
| 9:25 | pick up at the hotel lobby (for visitors) |
| 10:35 – 12:10 | Tour of TOYOTA Motor Kyushu (Miyata Plant) |
| 12:45 – 13:45 | Lunch |
| 14:00 | break up and go to Hakata, Fukuoka (for visitors) come back to IPS (for IPS members) |
