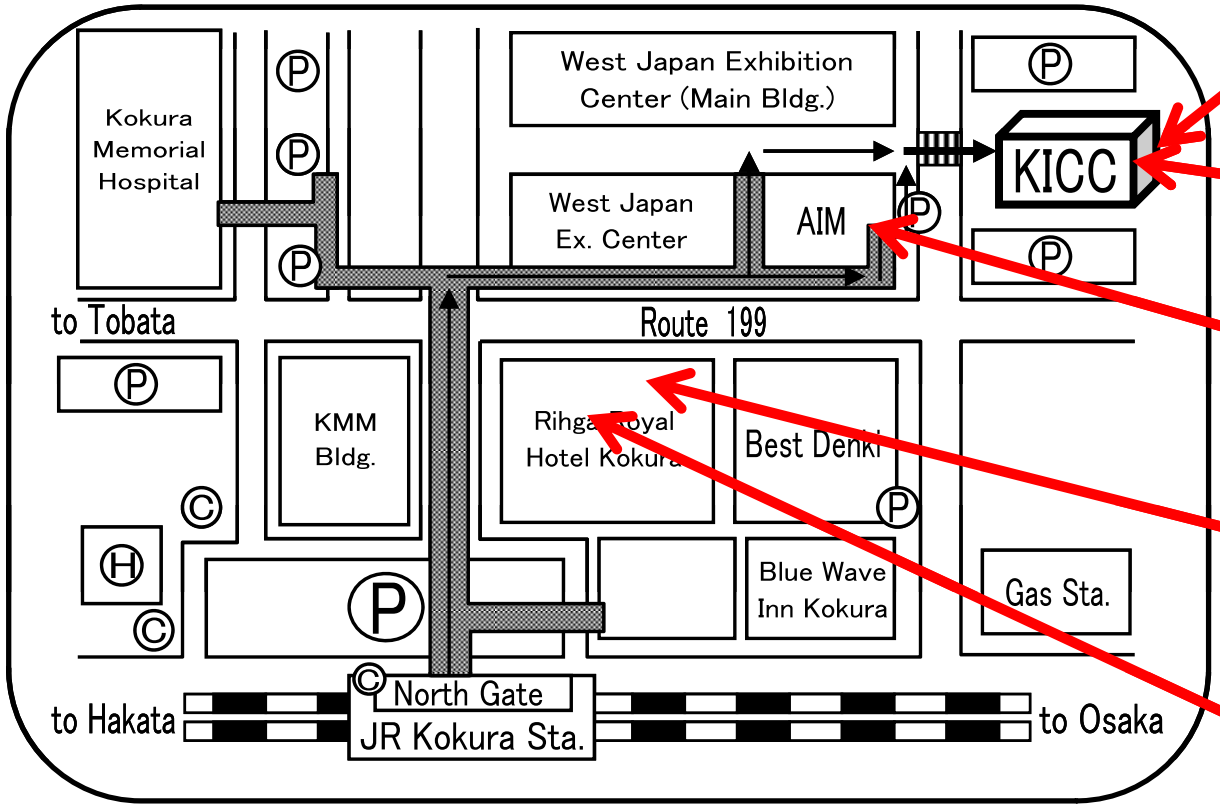
KES 2013

17th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems

Program Booklet

Kitakyushu, Japan
9-11 September 2013

KICC : Kitakyushu International Conference Center



Conference Venue

Lunch

Welcome Party (Sept. 8)
& Lunch
Resteurant Flamingo

Lunch
Coffee House Corbeille

Tour Gathering Spot
(Sept. 10)
2F Lobby of

Shattle Buses for KES2013 tour and the banquet will depart at 2F Robby from Rihga Royal Hotel at 4:00pm and 5:30pm.
If you cannot get on the shuttle bus, you may take a JR train to Mojiko Station.

Welcome Message

Dear Delegates and Friends,

We are very pleased to welcome you at Kitakyushu, City of 200 industry years for the 17th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems. The conference is organized by the International society of Management (ISME international) and the Graduate School of Information, Production and Systems, in conjunction with KES International.

Kitakyushu is located at the historical center of coal mining and iron industry till 1970s. Today, the industries of Kitakyushu are expanding to automobile manufacturing, robotics, chemistry and materials as well as ecology oriented industry. Now, the population of Kitakyushu city has approximately one million inhabitants. The history of Kitakyushu can be back to Heike Story about 1000 AD, but the city itself today is more future-oriented. The Science Park at HIbikino includes the graduate schools of three universities; Waseda University, Kitakyushu City University, and Kyushu Institute of Technology. All the universities have more than one hundred year history.

Hopefully we will not have typhoon. Japan has several strong typhoon attacks in the season as well as hot and high humidity weather. On the other hand, Mojiko harbor was a center of sipping in the past industries. It is a quite famous story that Albert Einstein received the information of Nobel Prize award on a ship board coming to Kitakyushu. You will find some records of Albert Einstein in Mojiko Harbor as well as chances to buy some souvenirs.

Back to the conference, we invite five renowned scholars. On Monday (Sept. 9), Prof Witold Pedrycz will talk the granularity from the perspective of fuzzy sets. On the same day, Prof Andrzej Skowron will talk about Risk management in interactive intelligent systems. On Tuesday (Sept. 10), Prof Hisao Ishibuchi will discuss about fuzzy rule based classifier design. These topics are quite important in classifier. Prof Longbing Cao will discuss on Noniidness Learning and Pattern Relation Learning. These are central issues in knowledge based and intelligent information as well as relating to knowledge systems. On Wednesday (Sept. 11) we invite Prof Danny van Noort who works on bio chemistry, more experiment oriented research. He is working on the realization of biological computing systems. This future oriented research provides the methodological possibilities of the topics for our conference main topics.

KES 2013 provides an international scientific forum for the presentation of high-quality research results on a broad range of intelligent systems topics. The conference attracted contributions from nearly 30 countries and 5 continents: Australia, Canada, China, Croatia, Czech Republic, France, Hungary, Germany, Greece, Indonesia, Iran, Italy, Japan, Korea, Malaysia, Mexico, Norway, Poland, Romania, Russia, Spain, Sweden, Switzerland, Taiwan, Thailand, Tunisia, United Kingdom, and USA. We have organized the conference into eight parallel sessions providing broad and interesting insights into the various fields of knowledge-based and intelligent

information and engineering systems. All the accepted papers are published in Procedia Computer Science, on-line journal, published by Elsevier, indexed in CPCi (ISI conferences), Engineering Index, and Scopus as the KES2013 special issue.

We, general chairs, would like to express the appreciation to the hard work of the program co-chairs, Prof Naoto Mukai and Prof Kouichi Asakura as well as many graduate students of Waseda University. The program committee members completed the single-blind review process. Special care was taken during the review process for papers authored by track chairs, program chairs, and general chairs so that the confidentiality of the review process is maintained. We are deeply indebted to all those involved in the review process for their diligence and professionalism. Without their hard works, the conference could not be realized.

At the end, but not the least, we gratefully acknowledge the sponsorship of Kitakyushu City and West Japan Industry and Trade Convention Association. We thank all authors and delegates for their contributions and for their cooperation throughout the KES2013 conference.

Hosting KES 2013 in Kitakyushu would not have been possible without the professional cooperation and commitment that we received from KES International and its administrators. We would like to thank all KES International Staff including Peter Cushion, Shaun Lee and Faye Alexander for their strong support

We hope that all participants will enjoy this industry and academic city as well as its long-history more than some thousand years. We wish you will find something here from Japanese history.

Junzo Watada, Lakhmi C. Jain, and Robert J. Howlett

September 9, 2013

Junzo Watada
General Co-Chair
Waseda University
Japan

Lakhmi C. Jain
General Co-Chair
University of South Australia
Australia

Robert J. Howlett
Executive Chair
Bournemouth University
UK

Naoto Mukai
Program Co-Chair
Sugiyama Jogakuen University
Japan

Kouichi Asakura
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Organization

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Junzo Watada, Waseda University, Japan
Lakhmi C.Jain, University of Canberra, Australia
Robert J. Howlett, Bournemouth University, UK
Naoto Mukai, Sugiyama Jogakuen University, Japan
Koichi Asakura, Daido University, Japan

Track Chairs

Bruno Apolloni	University of Milan, Italy
Gordan Jezic	
Anne Hakansson	Royal Institute of Technology, Sweden
Tuan D. Pham	The University of Aizu, Japn
Ron Hartung	Franklyn University, United States
Irek Czarnowski	Gdynia Maritime University, Poland
oyohide Watanabe	Nagoya University, Japan
Tomoko Kojiri	Kansai University, Japan
Robert Howlett	Bournemouth University, UK
Carlos Toro	Vicomtech Research Centre, Spain

Invited Session Chairs

IS01: Skill Acquisition and Ubiquitous Human Computer Interaction	Hirokazu Taki, Wakayama University, Japan Masato Soga, Wakayama University, Japan
IS02: TBN	Halina Kwasnicka, Institute of Informatics, Worclaw University of Technology, Poland
IS03: Recent Advances in Neural Networks and applications	Ivan Jordanov, University of Portsmouth, UK

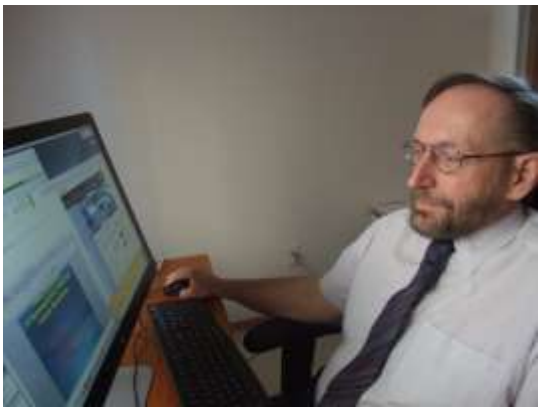
IS04: Quantitative Method of Decision Making in a Changing Financial and Social Environment	Mieko Tanaka-Yamawaki, Tottori University, Japan
IS06: Recent Advances in Knowledge Engineering and Soft Data Paradigms	Mika Sato-Ilic, University of Tsukuba, Japan
IS10: Reasoning-based Intelligent Systems	Kazumi Nakamatsu, University of Hyogo Japan Jair M. Abe, Paulista Univ. Brazil
IS11: Intelligent Network and Services	Jun Munemori, Wakayama University, Japan Takaya Yuizono, Japan Advanced Institute of Science and Technology, Japan
IS15: Knowledge-Based Systems for e-Business	Kazuhiko Tsuda, The University of Tsukuba,Tokyo, Japan Nobuo Suzuki, KDDI Corporation, Japan Masakazu Takahashi, Yamaguchi University, Japan
IS16: Autonomy and Innovations using Multi-Agent Systems	Jeffrey Tweedale, University of South Australia and Defence Science and Technology Organisation, Australia
IS17: Chance Discovery and its Innovation.	Akinori Abe, Chiba University, Japan Yukio Ohsawa , University of Tokyo, Japan Noriyuki Kushiro, Kyushu Institute of Technology, Japan.
IS18: Knowledge-Based Intelligent System and Application	Yuji Iwahori, Chubu University, Japan Yoshinori Adachi, Chubu University, Japan Nobuhiro Inuzuka, Nagoya Inst. of Technology, Japan
IS19: Intelligent Medical and Healthcare Informatics	Syoji Kobashi, University of Hyogo, Japan Hiroharu Kawanaka, Mie University, Japan
IS20: Cognitive biases in human-machine communication	Janos Botzheim, Tokyo Metropolitan University, Japan Peter Foldesi, Szechenyi Istvan University, Hungary
IS21: Security Engineering for Knowledge-based & Intelligent Systems & Applications	Esmiralda Moradian, Stockholm University, Sweden
IS22: Human-oriented Learning Technology and Learning Support Environment	Kazuhisa Seta, Osaka Prefecture University, Japan Tomoko Kojiri, Kansai University, Japan Toyohide Watanabe, Nagoya University, Japan
IS23: Intelligent Design and Operation for Sustainable Process Systems and Chemical Plants	Hideyuki Matsumoto, Tokyo Institute of Technology, Japan Naoki Kimura, Kyushu University Kazuhiro Takeda, Shizuoka University, Japan Tetsuo Fuchino, Tokyo Institute of Technology, Japan Takashi Hamaguchi , Nagoya Inst. of Technology, Japan
IS24: Collective Intelligence and Intelligent Data Analysis	Katsuhiro Honda, Osaka Prefecture University, Japan Tomoe Entani, Kochi University, Japan
IS25: Knowledge Sharing Network	Shuichiro Yamamoto, Nagoya University, Japan Atsuo Hazeyama, Tokyo Gakugei University, Japan
IS26: Design of Social Intelligence and Creativity Environment	Taketoshi Ushiama, Kyushu University, Japan Toyohide Watanabe, Nagoya University, Japan Naoto Mukai, Sugiyama Jogakuen University, Japan
IS27: Perception Based Computing	Piotr Wasilewski, University of Warsaw, Poland Andrzej Skowron, University of Warsaw, Poland
IS28: Systems and Practices for Learner-Centered e-Learning	Kumiko Aoki, Open University of Japan Kazunori Nishino, Kyushu Institute of Technology, Japan Yoshimi Fukumura, Nagaoka University of Technology, Japan
IS29: Soft Computing	Hiroaki Ishii, Kwansei Gakuin University, Japan Hirosato Seki, Kwansei Gakuin University, Japan
IS30: Immunity-Based Systems: Toward Artificial Resilient Systems	Yoshiteru Ishida, Toyohashi University of Technology, Japan

Keynotes

Monday 9 September, 2013
09:00-10:30 Conference Room 1

Prof Witold Pedrycz

University of Alberta, Edmonton Canada, and Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland



Title: From Data to Knowledge Networks and Their Granular Hierarchies

Abstract:

Real-world complex phenomena (systems) are inherently hierarchical and distributed. This implies a hierarchical modeling view at such systems. From the perspective of ensuing models - knowledge networks being built at various levels of hierarchy and established at the corresponding levels of specificity, a notion of information granularity, levels of abstraction and interoperability and collaborative issues become of paramount relevance.

In this study, we establish a hierarchical and collaborative framework of Granular Computing and discuss how the essential issues of hierarchy building, collaboration formation, and reconciliation of findings are constructed.

With this regard information granules (say, fuzzy sets) of higher order and higher type form one of the interesting conceptual and methodological pursuits. We highlight key motivating factors behind the emergence of type-2 and order-2 of information granules and reveal apparent linkages between type-*n* information granules and hierarchical architectures are discussed.

The presentation is cast in the setting of Granular Computing along with its two fundamental ideas of the principle of justifiable granularity and an optimal allocation of information granularity.

Biography:

Witold Pedrycz is Professor and Canada Research Chair (CRC - Computational Intelligence) in the Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada. He is also with the Systems Research Institute of the

Polish Academy of Sciences, Warsaw, Poland. He also holds an appointment of special professorship in the School of Computer Science, University of Nottingham, UK. In 2009 Dr. Pedrycz was elected a foreign member of the Polish Academy of Sciences. In 2012 he was elected a Fellow of the Royal Society of Canada. Witold Pedrycz has been a member of numerous program committees of IEEE conferences in the area of fuzzy sets and neurocomputing. In 2007 he received a prestigious Norbert Wiener award from the IEEE Systems, Man, and Cybernetics Council and in 2013 a Killam Prize. He is a recipient of the IEEE Canada Computer Engineering Medal 2008. In 2009 he has received a Cajastur Prize for Soft Computing from the European Centre for Soft Computing for "*pioneering and multifaceted contributions to Granular Computing*".

His main research directions involve Computational Intelligence, fuzzy modeling and Granular Computing, knowledge discovery and data mining, fuzzy control, pattern recognition, knowledge-based neural networks, relational computing, and Software Engineering. He has published numerous papers in this area. He is also an author of 15 research monographs covering various aspects of Computational Intelligence and Software Engineering.

Dr. Pedrycz is intensively involved in editorial activities. He is an Editor-in-Chief of ***Information Sciences*** and Editor-in-Chief of ***IEEE Transactions on Systems, Man, and Cybernetics - Systems***. He currently serves as an Associate Editor of ***IEEE Transactions on Fuzzy Systems*** and is a member of a number of editorial boards of other international journals.

Monday 9 September, 2013
14:00-15:00 Conference Room 1

Prof Andrzej Skowron
Warsaw University, Poland

Title: Risk management in interactive intelligent systems

Abstract:

Understanding the nature of interactions is regarded as one of the biggest challenges in projects related to complex adaptive systems. We discuss foundations for interactive intelligent systems (IIS), developed in the Wisdom Technology (WisTech) framework. In particular, foundations of interactive granular computations in such systems based on rough set theory are presented. Moreover, we emphasize the key role of risk management in problem solving by IIS. The considerations are illustrated by experimental results obtained in various projects concerning, e.g., medical diagnosis and therapy support, control of an unmanned helicopter or algorithmic trading.

Biography:

http://scholar.google.com/citations?user=fYu9ryIAAAAJ&hl=en&oi=ao

Andrzej Skowron received the Ph. D. and D. Sci. (habilitation) from the University of Warsaw in Poland. In 1991 he received the Scientific Title of Professor. He is Full Professor in the Faculty of Mathematics, Computer Science and Mechanics at the University of Warsaw. He is ECCAI Fellow. Andrzej Skowron is the (co)author of more than 400 scientific publications and editor of many books. His areas of expertise include reasoning with incomplete information, approximate reasoning, soft computing methods and applications, rough sets, rough mereology, granular computing, intelligent systems, knowledge discovery and data mining, decision support systems, adaptive and autonomous systems, perception based computing, interactive intelligent systems. He was the supervisor of more than 20 PhD Thesis. In the period 1995-2009 he was the Editor-in-Chief of Fundamenta Informaticae journal. He is on Editorial Boards of many others international journals. Andrzej Skowron was the President of the International Rough Set Society from 1996 to 2000. He

has delivered numerous invited talks at international conferences including plenary talk at the 16-th IFIP World Computer Congress (Beijing, 2000), keynote talk at 8th Joint Conference on Information Sciences (JCIS 2005) (encompassing 12 individual conferences and workshops) (USA, 2005), invited talk at 2006 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT 2006) and on Web Intelligence (WI 2006) (Hong Kong, 2006), and plenary talk at the 2-nd World Congress on Biologically Inspired Computing (Japan, 2010). He was serving as (co-)program chair and PC member of more than 100 international conferences. He was involved in numerous research and commercial projects including dialog-based search engine (Nutech), fraud detection for Bank of America (Nutech), logistic project for General Motors (Nutech), algorithmic trading (Adgam), control of UAV (Linkoeping University), medical decision support (Polish-American Pediatric Clinic in Cracow).

Tuesday 10 September, 2013
9:00 – 10:00 Conference Room 1

Prof Hisao Ishibuchi
Osaka Prefecture University, Japan

Title: Fuzzy Rule-Based Classifier Design: Accuracy Maximization and Complexity Minimization

Abstract:
Design of fuzzy rule-based classifiers usually involves two conflicting objectives: One is accuracy maximization and the other is complexity minimization. In some recent studies, complexity minimization is generalized as interpretability maximization. In this talk, we discuss how we can handle these two conflicting objectives in the design of fuzzy rule-based classifiers. This talk starts with a brief review on fuzzy rule-based system design. Next fuzzy rule-based classifier design is explained from two view points: Accuracy maximization and complexity minimization. Then we discuss the handling of those conflicting objectives in fuzzy rule-based classifier design. Single-objective and multi-objective approached are explained. Finally, we show some hot issues such as parallel distributed implementation of fuzzy genetics-based machine learning, on-line learning of fuzzy rule-based classifiers, ensemble fuzzy rule-based classifier design, and Type-2 fuzzy rule-based classifiers.

Biography:
Prof. Hisao Ishibuchi received the BS and MS degrees from Kyoto University in 1985 and 1987, respectively. He received the Ph. D. degree from Osaka Prefecture University in 1992. Since 1987, he has been with Osaka Prefecture University as a research associate (1987-1993), an assistant professor (1993), an associate professor (1994-1999) and a full professor since 1999. His research interests include evolutionary multiobjective optimization, fuzzy genetics-based machine learning and evolutionary games. He received a Best Paper Award from GECCO 2004, HIS-NCEI 2006, FUZZ-IEEE 2009, WAC 2010, SCIS & ISIS 2010 and FUZZ-IEEE 2011. He also received a 2007 JSPS Prize from the Japan Society for the Promotion of Science. He is the IEEE CIS Vice-President for Technical Activities (2010-2013), a Technical Chair of IEEE CEC 2013, and a Program Co-Chair of FUZZ-IEEE 2013 and IEEE CEC 2014. He is also an associate editor of IEEE T-SMC Part B (2002-2012), IEEE TFS (2004-), IEEE CI Magazine (2005-), and IEEE TEC (2007-). According to Google Scholar, the total number of citations of his papers is more than 11,000 and his h-index is 47 (as of October 1, 2012).

Tuesday 10 September, 2013
14:00-1**5**:**0**0 Conference Room 1

Prof Longbing Cao
University of Technology Sydney, Australia

Title: Noniidness Learning and Pattern Relation Learning

Abstract:
Most of existing data mining and machine learning algorithms are based on the IID assumption, which assumes objects are independent and identically distributed from each other. In the real world, objects are either loosely or tightly coupled with each other. The interactions, or coupling relationships, between objects are ubiquitous, and spread at various levels, between objects, between attributes describing an object, and between attribute values within an attribute. On the other hand, the usual patterns identified by data mining are based on independent objects or items. In fact, due to the object coupling relationships, patterns are associated with each other in structural and/or semantic aspects. Pattern relationship analysis is often ignored.
This talk will explore the needs, challenges, opportunities of noniidness learning in analyzing complex object and pattern relations. Following a framework for noniid-based coupled object and pattern analysis, we will introduce several corresponding techniques: coupled object analysis to define and quantify the coupling relationships within and between objects and within and between attributes, combined pattern mining to identify a group of patterns coupled by certain relationships, coupled behavior analysis to analyse a group of actors' behaviors, and coupled ensemble clustering to cater for relations between clusterings. We will show how such new frameworks redefine the learning of complex data, behavior, relation, environment and pattern in clustering, pattern mining, classification and pattern relation learning. Further discussions will be about how knowledge engineering and semantic web can be connected with noniidness learning for complex but actionable object and pattern relation analysis.

Biography:
Dr Longbing Cao is a professor of information technology at the Faculty of Engineering and IT, University of Technology Sydney, Australia; and the founding Director of the university's Advanced Analytics Institute. Longbing was awarded PhD in Computing Sciences and PhD in Intelligent Sciences. Before joining UTS, Longbing had several years of research experience in Chinese Academy of Sciences, and working experiences in managing and leading industry and commercial projects in telecommunications, banking and publishing, as a manager or chief technical officer.

Besides general interest on areas such as data mining, machine learning, artificial intelligence, multi-agent systems and software engineering, Longbing has been initiating and now leading research in particular topics including behavior informatics and computing, noniidness learning, pattern relation learning, agent mining, and complex intelligent systems.

He is very keen on bridging the gap between academics and industries, with tremendous efforts contributed to the enterprise innovation and applications of data mining and behavior informatics in the real world. In Australia, Longbing has solid links with broad-based major business, industry, vendor and government organizations, leading and managing many projects such as in social security, taxation, banking, telecommunication, capital market, insurance, public sector and airline business. During these exercises, Longbing fosters a strong research culture of conducting cutting-edge and applied research inspired by challenging critical business and social problems, forming a strong interaction and balance between high quality Research, high calibre analyst Education, and high impact Development (the so-called RED model).

Wednesday 11 September 2013
9:00 – 10:00 Conference Room 1

Prof Danny van Noort
University of Seoul, South Korea

Title: Intelligence in Microfluidics

Abstract:

Microfluidics can serve as a platform for computational phenomena, in this case aqueous based computing. There are several methods to facilitate this kind of computing. One is by using DNA strands as the information carrier to perform selection steps. In this case, microfluidics provides the program for the computation, as the fluidics can be set up as AND and OR gates,. Another method is to use ion sensors to visualise the outcome of the computation. This chemical computer can perform as a half-adder, which adds two binary numbers. Also, the microfluidic network as such can function as a computer. Think of a maze; how to solve it? Because of the intrinsic nature of microfluidics, that is, no chaotic mixing, a maze can be easily solved. Even more, the shortest path problem (which is basically a maze with more paths) can be solved readily in such a device.

On larger scale, outside the microfluidic regime, aqueous computing also works. In this case, due to turbulent mixing AND and OR gates can be constructed.

In this presentation I will go more in to depth about these various forms of aqueous computing.

Biography:

PhD in Applied Physics 1996-2000, Institute of Applied Physics, Linköping University, Sweden: Affinity biosensors, MSc in Experimental Physics 1982-1988 Leiden University, the Netherlands.

Visiting Professor 2012-Present
Department of Chemistry and Nano Science, Ewha Womans University, Seoul, South

Korea: Human on a Chip.
Head Nano/Micro Fabrication Core 2009-2012.

Mechnobiology Institute, National University of Singapore, Singapore: support to biologist with micro/nano devices.
Senior Research Scientist 2006-2009.
Institute of Bioengineering and Nanotechnology, Singapore: 3D cell constructs on microfluidic platforms.
Visting Professor 2004-2006.
Biointelligence Lab, School of Computer Science and Engineering, Seoul National University, Seoul, South Korea: DNA based computers in microfluidic devices.
Research Fellow 2002-2004.
Department of Ecology and Evolutionary Biology, Princeton University: DNA based computers in microflow reactors to access evolutionary computing in vivo.
Post Doctoral Fellow and Senior Scientist 2000-2002
Fraunhofer Institute, Sankt Augustin, Germany: BioMolecular Information Processing constructing a re-programmable DNA-computer in microfluidic systems.
Research Assistant, Senior Scientist 1993-1995
Lorad Eötvöstvös University, Budapest, Hungary: cancer treatment research and proton conduction in water networks.
Research Assistant 1992-1993
Technical University of Budapest, Hungary. neural networks to classify white blood cells in seven categories.
R&D Engineer 1990-1992
Opticon Sensors Europe, Hoofddorp, The Netherlands: algorithms and software for optical character recognition by means of matrix-matching and neural networks.

Programme Schedule

Monday 9 September, KES2013		
Time	Venue	Detail
9:00	Room 1	Opening of the KES2013 Conference
9:30	Room 1	**Keynote1: From Data to Knowledge Networks and Their Granular Hierarchies,** **Prof Witold Pedrycz**, University of Alberta, Edmonton Canada, and Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland, Chair: Junzo Watada
10:30	Subfoyer	Coffee
11:00	Room 1	Session: Artificial Neural Networks, Connectionists Systems and Evolutionary Computation (I) Chair: Bruno Apolloni
	Room 2	Session: Agent and Multi-Agent Systems Chair: Gordan Jezic
	Room 4	Session: Intelligent Vision, Image Processing and Signal Processing (I) Chair: Tuan D. Pham
	Room 5	Session: Skill Acquisition and Ubiquitous Human Computer Interaction (I) Chair: Hirokazu Taki
	Room 6	Session: Quantitative Method of Decision Making in a Changing Financial and Social Environment Chair: Mieko Tanaka-Yamawaki
	Room 7	Session: Recent Advances in Knowledge Engineering and Soft Data Paradigms Chair: Liya Ding and Margarita N. Favorskaya
	Room 8	Session: Autonomy and Innovations using Multi-Agent Systems Chair: Jeffrey Tweedale
13:00	(*)	Lunch
14:30	Room 1	**Keynote2: Risk management in interactive intelligent systems** **Prof Andrzej Skowron**, Warsaw University, Poland Chair: Lakhmi C. Jain
15:30	Subfoyer	Coffee
16:00	Room 1	Session: Artificial Neural Networks, Connectionists Systems and Evolutionary Computation (II) Chair: Bruno Apolloni
	Room 2	Session: Knowledge Based and Expert Systems Chair: Anne H[illegible]akansson**
	Room 3	Session: Knowledge Management, Ontologies and Data Mining (II) Chair: Ron Hartung
	Room 4	Session: Chance Discovery and its Innovation Chair: Akinori Abe, Yukio Ohsawa, and Noriyuki Kushiro
	Room 5	Session: Skill Acquisition and Ubiquitous Human Computer Interaction (II) Chair: Hirokazu Taki
	Room 6	Session: Cognitive biases in human-machine communication Chair: Janos Botzheim and Peter Foldesi
	Room 7	Session: Design of Social Intelligence and Creativity Environment Chair: Taketoshi Ushiama, Naoto Mukai, and Toyohide Watanabe

(*) Lunch at Resteurants: De Passo, Flamingo, Coffee House Corbeille
See the map. Vegitarian at Coffee House Corbeille

Tuesday 10 September, KES2013		
Time	Venue	Detail
9:00	Room 1	**Keynote3: Fuzzy Rule-Based Classifier Design: Accuracy Maximization and Complexity Minimization** **Prof Hisao Ishibuchi**, Osaka Prefecture University, Japan Chair: Toyohide Watanabe
10:00	Subfoyer	Coffee
10:30	Room 1	Session: Web Intelligence, Text and Multimedia Mining and Retrieval Chair: Irek Czarnowski
	Room 2	Session: Intelligent Tutoring Systems and E-Learning Environments Chair: Toyohide Watanabe and Tomoko Kojiri
	Room 3	Session: Other / Misc. Intelligent Systems Topics (I) Chair: Carlos Toro
	Room 4	Session: Knowledge Sharing Network Chair: Shuichiro Yamamoto and Atsuo Hazeyama
	Room 5	Session: Systems and Practices for Learner-Centered e-Learning Chair: Kumiko Aoki, Kazunori Nishino, and Yoshimi Fukumura
	Room 6	Session: Immunity-Based Systems: Toward Artificial Resilient Systems Chair: Yoshiteru Ishida
	Room 7	Session: Soft Computing Chair: Hiroaki Ishii and Hirosato Seki
12:30	(*)	Lunch
14:00	Room 1	**Keynote4: Noniidness Learning and Pattern Relation Learning** **Prof Longbing Cao**, University of Technology Sydney, Australia Chair: Robert Howlett
15:00		Move to Gathering Spots (2F Robby of Rihga Royal Hotel)
16:00		Tour to Mojiko Harbor & Banquet Bus Departure from 2F Robby of Rihga Royal Hotel
19:00	Mojiko Hotel	Banquet at Mojiko Hotel

(*) Lunch at Resteurants: De Passo, Flamingo, Coffee House Corbeille
See the map. Vegitarian at Coffee House Corbeille

Wednesday 11 September, KES2013		
Time	Venue	Detail
9:00	Room 1	**Keynote5: Intelligence in Microfluidics** **Prof Danny van Noor**t, University of Seoul, South Korea Chair: Junzo Watada
10:00	Subfoyer	Coffee
10:30	Room 1	Session: Other / Misc. Intelligent Systems Topics (II) Chair: Carlos Toro
	Room 2	Session: Knowledge-Based Systems for e-Business (I) Chair: Kazuhiko Tsuda, Nobuo Suzuki, and Masakazu Takahashi
	Room 3	Session: Knowledge-Based Intelligent System and Application (I) Chair: Yuji Iwahori, Yoshinori Adachi, and Nobuhiro Inuzuka
	Room 4	Session: Intelligent Medical and Healthcare Informatics (I) Chair: Syoji Kobashi and Hiroharu Kawanaka
	Room 5	Session: Intelligent Design and Operation for Sustainable Process Systems and Chemical Plants (I) Chair: Hideyuki Matsumoto, Naoki Kimura, Kazuhiro Takeda, Tetsuo Fuchino, and Takashi Hamaguchi
	Room 6	Session: Reasoning-based Intelligent Systems Chair: Kazumi Nakamatsu
	Room 7	Session: Intelligent Network and Services Chair: Jun Munemori
	Room 8	Session: Human-oriented Learning Technology and Learning Support Environment Chair: Kazuhisa Seta, Tomoko Kojiri, and ToyohideWatanabe
12:30	(*)	Lunch
14:00	Room 1	Session: Security Engineering for Knowledge-based & Intelligent Systems & Applications Chair: Esmiralda Moradian
	Room 2	Session: Knowledge-Based Systems for e-Business (II) Chair: Kazuhiko Tsuda, Nobuo Suzuki, and Masakazu Takahashi
	Room 4	Session: Intelligent Medical and Healthcare Informatics (II) Chair: Syoji Kobashi and Hiroharu Kawanaka
	Room 5	Session: Intelligent Design and Operation for Sustainable Process Systems and Chemical Plants (II) Chair: Hideyuki Matsumoto, Naoki Kimura, Kazuhiro Takeda, Tetsuo Fuchino, and Takashi Hamaguchi
	Room 6	Session: Collective Intelligence and Intelligent Data Analysis Chair: Katsuhiro Honda and Tomoe Entani
	Room 7	Session: Intelligent Systems Research Progress Workshop Chair: JunzoWatada
16:00	Room 1	Closing of the KES2013 Conference

(*) Lunch at Resteurants: De Passo, Flamingo, Coffee House Corbeille
See the map. Vegitarian at Coffee House Corbeille

KES2013 Program

September 9

9/9 11:00-13:00 Conf. Room 1

Session: Artificial Neural Networks, Connectionists Systems and Evolutionary Computation (I)
Chair: Bruno Apolloni

A Biologicaly Inspired Decision Model for Multivariable Genetic-Fuzzy-AHP System (k13gen-001)
Issam Kouatli

Development of Customer Satisfaction Models for Affective Design Using Rough set and ANFIS Approaches (k13gen-009)
Huimin Jiang, W. H. Ip, C. K. Kwong, and M.C. Law

Application of Genetic Algorithms to Fine-Gain Tuning of Improved the Resolved Acceleration Controller (k13gen-013)
Akimasa Otsuka and Fusaomi Nagata

A Neural Network Approach for Non-contact Defect Inspection of Flat Panel Displays (k13gen-031)
Hapu Abeysundara, Hiroshi Hamori, Takeshi Matsui, and Masatoshi Sakawa

Hybrid Multi-layered GMDH-type Neural Network Using Principal Component Regression Analysis and Its Application to Medical Image Diagnosis of Liver Cancer (k13gen-038)
Tadashi Kondo, Shoichiro Takao, and Junji Ueno

9/9 11:00-13:00 Conf. Room 2

Session: Agent and Multi-Agent Systems
Chair: Gordan Jezic

Intra-agent Explanation using Temporal and Extended Causal Maps (k13gen-039)
Aroua Hedhiliand and Wided Chaari

Individual Reinforcement and Social Reinforcement: Analytical Model of Individual Behavior in Social Context (k13gen-051)
Eugene Kitamura, Akira Namatame, and Hiroshi Sato

9/9 11:00-13:00 Conf. Room 3

Session: Knowledge Management, Ontologies and Data Mining (I)
Chair: Ron Hartung

Decision Rules, Trees and Tests for Tables with Many-Valued Decisions – Comparative Study (k13gen-003)
Mohammad Azad, Igor Chikalov, Mikhail Moshkov, and Beata Zielosko

Totally Optimal Decision Trees for Monotone Boolean Functions with at most Five Variables (k13gen-006)
Shahid Hussain, Igor Chikalov, and Mikhail Moshkov

Semi-structured Documents Mining: A Review and Comparison (k13gen-012)
Amina Madani

Optimization of Approximate Inhibitory Rules Relative to Number of Misclassifications (k13gen-017)
Fawaz Alsolami, Igor Chikalov, Mikhail Moshkov, and Beata Zielosko

Interlinking Documents based on Semantic Graphs (k13gen-023)
Bernardo Pereira Nunes, Marco Casanova, Stefan Dietze, Besnik Fetahu, Ricardo Kawase, and Diana Maynard

User-Oriented RT Service Proposal System in Kukanchi (k13gen-027)
Anna Ohira, Yoshinobu Ando, Makoto Mizukawa, Trung Ngo, and Takashi Yoshimi

9/9 11:00-13:00 Conf. Room 4

Session: Intelligent Vision, Image Processing and Signal Processing (I)
Chair: Tuan D. Pham

Unsupervised SIFT-based Face Recognition Using an Automatic Hierarchical Agglomerative Clustering Solution (k13gen-002)
Tudor Barbu

Tracking Method in Consideration of Existence of Similar Object around Target Object (k13gen-008)
Gaku Watanabe, Shinji Fukui, Yuji Iwahori, M. K. Bhuyan, Robert J. Woodham, and Yoshinori Adachi

Image Boundary Detection using the Modified Level Set Method and a Diffusion Filter (k13gen-018)
Syaiful Anam, Noriaki Suetake, and Eiji Uchino

Use of Both Invisible and Emergable Watermarks to Deter Illegal Copying of Images (k13gen-024)
Takaaki Yamada

9/9 11:00-13:00 Conf. Room 5

Session: Skill Acquisition and Ubiquitous Human Computer Interaction (I)
Chair: Hirokazu Taki

Doze Sleepy Driving Prevention System (Finger Massage, High Density Oxygen Spray, Grapefruit Fragrance) with Chewing Dried Shredded Squid (k13is-001)
Takashi Fruhata, Tomoya Adachi, Tseveenbolor Davaa, Researcher Saiko Iga, and Taizo Miyachi

Iris-Eyelid Separability Filter for Irises Tracking (k13is-018)
Chen Qian, Wu Haiyuan, and Mastumoto Kohei

Feedback of Flying Disc Throw with Kinect and its Evaluation (k13is-021)
Yasuhisa Tamura, Takeshi Shima, Masataka Uehara, and Koji Yamaoka

A Preliminary Examination of the Effect of White and Blue Backgrounds on Web-based English Listening Tests (k13is-046)
Atsuko Yamazaki, Kaoru Eto, and Hitomi Shimada

Motor Skill Development using Motion Recognition based on an HMM (k13is-047)
Keita Yamada, Keisuke Hamagami, Hirofumi Inui, and Kenji Matsuura

Improved Affinity Propagation for Gesture Recognition (k13is-048)
Kokawa Yutaka, Wu Haiyuan, and Chen Qian

9/9 11:00-13:00 Conf. Room 6

Session: Quantitative Method of Decision Making in a Changing Financial and Social Environment
Chair: Mieko Tanaka-Yamawaki

On the Effectiveness of Candlestick Chart Analysis for the Brazilian Stock Market (k13is-029)
Hércules A. do Prado, Edilson Ferneda, Luis C. R. Morais, Alfredo J.B. Luiz, and Eduardo Matsura

Markov Chain Monte Carlo versus Importance Sampling in Bayesian Inference of the GARCH model (k13is-072)
Tetsuya Takaishi

Randomness Criteria of the RMT-test Compared to the NIST (k13is-101)
Yuuta Mikamori, Ryota Itoi, Mieko Tanaka-Yamawaki, and Xin Yang

Predicting the Security Levels of Stock Investment by using the RMT-test (k13is-105)
Xin Yang, Yuuta Mikamori, and Mieko Tanaka-Yamawaki

Radar Emitter Signals Recognition and Classification with Feedforward Networks (k13is-106)
Nedyalko Petrov, Ivan Jordanov, and Jon Roe

9/9 11:00-13:00 Conf. Room 7

Session: Recent Advances in Knowledge Engineering and Soft Data Paradigms
Chair: Mika Sato-Ilic

An Introduction of Tag Ratio Model and the Classification Examination for Recommender systems (k13is-027)
Kazuki Yamauchi, Yuhei Akamine, Satoshi Endo, Naruaki Toma, and Koji Yamada

Extended Interval-Valued Confidence for Inference of Knowware System using Hybrid Logic (k13is-059)
Liya Ding and Sio-Long Lo

Computational Techniques for Characterizing Cognition using EEG Data - New Approaches (k13is-065)
Nanda Nandagopal, Vijayalakshmi Ramasamy, Bernie Cocks, Nabaraj Dahal, Naga Dasari, and Thilaga M

9/9 11:00-13:00 Conf. Room 8

Session: Autonomy and Innovations using Multi-Agent Systems
Chair: Jeffrey Tweedale

Exploration and Exploitation of Information Systems Usage and Individual Performance (k13is-054)
Yumei Luo and Hong Ling

Using Multi-Agent Systems to Pursue Autonomy with Automated Components (k13is-107)
Jeffrey Tweedale

Modified Hybridized Multi-Agent Oriented Approach to Analyze Work-stress Data Providing Feedback in Real Time (k13is-125)
Anusua Ghosh, Andrew Nafalski, and Jeffery Tweedale

9/9 16:00-18:00 Conf. Room 1

Session: Artificial Neural Networks, Connectionists Systems and Evolutionary Computation (II)
Chair: Bruno Apolloni

User Profile and Multi-Criteria Decision Making: Personalization of Traveller's Information in Public Transportation (k13gen-045)
Soumaya Moussa, Mourad Abed, and Makram Soui

Neural Networks with Comparatively Few Critical Points (k13gen-059)
Tohru Nitta

9/9 16:00-18:00 Conf. Room 2

Session: Knowledge Based and Expert Systems
Chair: Anne Håkansson

Integrating Robot Task Planner with Common-Sense Knowledge Base to Improve the Efficiency of Planning (k13gen-026)
Ahmed Al-Moadhen, Ze Ji, Mikael Packianather, Renxi Qiu, and Rossi Setchi

A Method to Share Word Lnowledge of Dependability Case (k13gen-028)
Masanori Matsumura, Yutaka Matsuno, Shota Takama, Tatsuya Tokuno, Patu Vaise, and Shuichiro Yamamoto

Linguistic Markers in the Sentence Writing Question of the Mini-Mental State Examination for Discrimination between Alzheimer's and Vascular Dementia (k13gen-043)
Diman Todorov, Antony Bayer, and Rossi Setchi

Pertinent User Profile based on Adaptive Semi-supervised Learning (k13gen-055)
Rim Zghal Rebaï, Ikram Amous, Leila Ghorbel, and Corinne Amel Zayani

AIC - An AI-system for Combination of Senses (k13gen-066)
Anne Håkansson

9/9 16:00-18:00 Conf. Room 3

Session: Knowledge Management, Ontologies and Data Mining (II)
Chair: Ron Hartung

CHRONOS: A Reasoning Engine for Qualitative Temporal Information in OWL (k13gen-036)
Euripides Petrakis, Eleftherios Anagnostopoulos, and Sotiris Batsakis

Ontology Based Image Retrieval Framework using Qualitative Semantic Image Descriptions (k13gen-046)
Zia Ul Qayyum, Saqib Majeed, and Sohail Sarwar

9/9 16:00-18:00 Conf. Room 4

Session: Chance Discovery and its Innovation
Chair: Akinori Abe, Yukio Ohsawa, and Noriyuki Kushiro

Data Jackets for Synthesizing Values in the Market of Data (k13is-075)
Yukio Ohsawa, Teruaki Hayashi, Hiroyuki Kido, and Chang Liu

A Long-term Data Collection System for Life Pattern Sensor (k13is-076)
Noriyuki Kushiro, Toshiyasu Higuma, Taichi Ide, and Makoto Katsukura

Omoiyari and Reference Place: Team Support based on Multi-modal Communication (k13is-086)
Ruediger Oehlmann and Haajarah Chaudhry

Interactive Visualization for Monitoring Support of Multiple BBS Threads (k13is-092)

Yasufumi Takama and Masaki Okumura

Relationship between Curation, Chance and Shikake (k13is-097)
Akinori Abe

9/9 16:00-18:00 Conf. Room 5

Session: Skill Acquisition and Ubiquitous Human Computer Interaction (II)
Chair: Hirokazu Taki

High-Speed and High-accuracy Scene Flow estimation using Kinect (k13is-049)
Sato Kyosuke, Wu Haiyuan, and Chen Qian

Development of A Typing Skill Learning Environment with Diagnosis and Advice on Fingering Errors (k13is-053)
Masato Soga, Hirokazu Taki, and Takuya Tamura

9/9 16:00-18:00 Conf. Room 6

Session: Cognitive biases in human-machine communication
Chair: Janos Botzheim and Peter Foldesi

A Bio-Inspired Architecture of a Motor Neuron System for Virtual Creatures: Movement of a Single Limb with a Single Muscle (k13is-082)
Daniel Madrigal, Juan Del Valle, Félix Ramos, and Gustavo Torre

Extraction of Daily Life Log Measured by Smart Phone Sensors using Neural Computing (k13is-119)
Janos Botzheim, Naoyuki Kubota, Takenori Obo, Dalai Tang, Toru Yamaguchi, and Bakhtiar Yusuf

9/9 16:00-18:00 Conf. Room 7

Session: Design of Social Intelligence and Creativity Environment
Chair: Taketoshi Ushiama, Naoto Mukai, and Toyohide Watanabe

Efficient Maximum Range Search on Remote Spatial Databases Using k-Nearest Neighbor Queries (k13is-032)
Hideki Sato and Ryoichi Narita

A Preliminary Study of the Number of Votes under Majority Rule in Crowdsourcing (k13is-081)
Yuki Okubo, Masayoshi Aritsugi, and Teruaki Kitasuka

Automatic Paper-to-reviewer Assignment, Based on the Matching Degree of the Reviewers (k13is-090)
Toyohide Watanabe and Xinlian Li

A Warning System in E-learning using Web Cameras (k13is-096)
Kenichi Takahashi and Kousuke Arita

A Map Construction System for Disaster Areas Based on Ant Colony Systems (k13is-100)
Koichi Asakura, Kota Fukaya, and Toyohide Watanabe

PageRank-Based Traffic Simulation using Taxi Probe Data (k13is-102)
Naoto Mukai

September 10

9/10 10:30-12:30 Conf. Room 1

Session: Web Intelligence, Text and Multimedia Mining and Retrieval
Chair: Irek Czarnowski

Unsupervised Emotional Scene Detection for Lifelog Video Retrieval Based on Gaussian Mixture Model (k13gen-014)
Hiroki Nomiya, Teruhisa Hochin, and Atsushi Morikuni

Exploitation of Query Sentences using Specific Weighting in Support-Sentence Retrieval (k13gen-015)
Hai-Minh Nguyenand and Kiyoaki Shirai

Combining Lexical and Semantic Features for Short Text Classification (k13gen-019)
Lili Yangand and Chunping Li

Identifying Customer Preferences about Tourism Products using an Aspect-Based Opinion Mining Approach (k13gen-044)
Edison Marrese-Taylor, Felipe Bravo-Marquez, Yutaka Matsuo, and Juan Velsquez

Personalized Music Recommendation by Mining Social Media Tags (k13gen-049)
Su Ja-Hwung, Tseng Vincent S., and Chang Wei-Yi

9/10 10:30-12:30 Conf. Room 2

Session: Intelligent Tutoring Systems and E-Learning Environments
Chair: Toyohide Watanabe and Tomoko Kojiri

Design and Implement a Knowledge Management System to Support Web-based Learning in Higher Education (k13gen-016)
Jinyue Peng, Dongxing Jiang, and Xinyu Zhang

Version Management of the Dynamic Teaching Materials (k13gen-030)
George Batista, Mayu Urata, and Takami Yasuda

Usage of Diagnostic Simulator for Ground Engineering Crew Training (k13gen-054)
Przemyslaw Madrzycki, Piotr Golański, and Dariusz Karczmarz

Rich Presence Information in Agent Based Machine-to-Machine Communication (k13gen-061)
Mario Kusek, Ignac Lovrek, and Hrvoje Maracic

Socializing Entrepreneurship (k13gen-062)
Bruno Apolloni, Ivano Cesareo, Lucilla Crosta, Francesco Epifania, Gianluca Galliani, and Claudio Zizzo

9/10 10:30-12:30 Conf. Room 3

Session: Other / Misc. Intelligent Systems Topics (I)
Chair: Carlos Toro

Method of Embodying the Meaning of Headlines using News Articles (k13gen-007)
Misako Imono, Seiji Tsuchiya, Hirokazu Watabe, and Eriko Yoshimura

Interactive Multi-objective Route Planning for Sightseeing on Time-Expanded Networks under Various Conditions (k13gen-032)
Takashi Hasuike, Hideki Katagiri, Hiroe Tsubaki, and Hiroshi Tsuda

Applying 2k Factorial Design to Assess the Performance of ANN and SVM Methods for Forecasting Stationary and Non-stationary Time Series (k13gen-020)

Karin Kandananond

SOAda: Service Oriented Architecture with a Decision Aspect (k13gen-021)
Boumahdi Fatimaand and Chalal Rachid

Dual Decomposition for Vietnamese Part-of-Speech Tagging (k13gen-025)
Ngo Xuan Bach, Kunihiko Hiraishi, Nguyen Le Minh, and Akira Shimazu

On a Serendipity Oriented Recommender System based on Folksonomy and its Evaluation (k13gen-029)
Hisaaki Yamaba, Naonobu Okazaki, Kayoko Takatsuka, Michihito Tanoue, and Shigeyuki Tomita

9/10 10:30-12:30 Conf. Room 4

Session: Knowledge Sharing Network
Chair: Shuichiro Yamamoto and Atsuo Hazeyama

Knowledge Transfer Support for Server Administration Using Operations Histories (k13is-006)
Atsuo Hazeyama, Eri Umino, and Hikaru Yoshii

Method to Share Responsibility Knowledge of Dependability Cases (k13is-014)
Takuya Saruwatari, Takashi Hoshino, and Shuichiro Yamamoto

How to develop Security Case by combining real life security experiences(evidence) with D-Case. (k13is-026)
Vaise Patu and Shuichiro Yamamoto

Scalable Adaptive Group Communication for Collaboration Framework of Cloud-Enable Robots (k13is-036)
Rome Mark Mateo

Knowledge Collaboration through Enterprise Information Services (k13is-038)
Shuichiro Yamamoto

Automation of Message Handling in Cloud-based Managed Service (k13is-045)
Daisuke Yamada, Ryosei Kasai, Yoshitaka Kuwata, and Tatsuya Nakamura

9/10 10:30-12:30 Conf. Room 5

Session: Systems and Practices for Learner-Centered e-Learning
Chair: Kumiko Aoki, Kazunori Nishino, and Yoshimi Fukumura

US Students Carry Out Nuclear Safety Project in a Virtual Environment (k13is-005)
Dana Barry, Yoshimi Fukumura, Hideyuki Kanematsu, Toshiro Kobayashi, Hirotomo Nagai, and Nobuyuki Ogawa

An Overview of the getRNIA System for Non-deterministic Data (k13is-010)
Mao Wu, Michinori Nakata, and Hiroshi Sakai

A Support System for Generating SCORM Compliant Open Source Software Usage Manuals (k13is-015)
Akhmad Syaikhul Hadi, Yukikazu Murakami, and Takashi Yukawa

Detecting Eye Blinking of a Real-world Student and Introducing to the Virtual E-Learning Environment (k13is-020)
Asanka Dharmawansa, Yoshimi Fukumura, and Nakahira Katsuko

Eco Car Project for Japan Students as a Virtual PBL Class (k13is-023)
Hideyuki Kanematsu, Dana Barry, Yoshimi Fukumura, Nagai Hirotomo, Toshiro Kobayashi, and Nobuyuki Ogawa

9/10 10:30-12:30 Conf. Room 6

Session: Immunity-Based Systems: Toward Artificial Resilient Systems
Chair: Yoshiteru Ishida

Self-destruction Dynamics of HIV-1 Quasi-species Population in the Presence of Mutagenic Activities (k13is-118)
Koji Harada

Development of Manufacturing Support System for SME under Disruption Risk (k13is-120)
Nur Budi Mulyono and Yoshiteru Ishida

Characterization of Dynamics of Stable Matchings: Attractors Mapped From Stable Matchings (k13is-123)
Yoshiteru Ishida and Takumi Sato

Toward Introduction of Immunity-based Model to Continuous Behavior-based User Authentication on Smart Phone (k13is-127)
Yuji Watanabe, Tsutomu Fujita, and Ryu Hou

9/10 10:30-12:30 Conf. Room 7

Session: Soft Computing
Chair: Hiroaki Ishii and Hirosato Seki

Mathematical Ranking method for Emergency Facility Location Problem with Block-wisely Different Accident Occurrence Probabilities (k13is-088)
Hiroaki Ishii and Yung Lee

Fuzzy Multiple Criteria Decision Making Approach to assess the Project Quality Management in Project (k13is-095)
YaoFeng Chang and Hiroaki Ishii

A Construction Method of Fuzzy Classifiers using Confidence-Weighted Learning (k13is-124)
Tomoharu Nakashima, Andrzej Bargiela, and Takeshi Sumitani

Nonlinear Identification Using Single Input Connected Fuzzy Inference Model (k13is-126)
Hirosato Seki

September 11

9/11 10:30-12:30 Conf. Room 1

Session: Other / Misc. Intelligent Systems Topics (II)
Chair: Carlos Toro

Hierarchical Multiobjective Fuzzy Random Linear Programming Problems (k13gen-011)
Hitoshi Yano and Kota Matsui

A New Method of Using Physical Effects in Su-Field Analysis based on Ontology Reasoning (k13gen-037)
Wei Yan, Denis Cavallucci, Pierre Collet, François Rousselot, and Cecilia Zanni-Merk

Discusys: Multiple User Real-time Digital Sticky-Note Affinity-Diagram Brainstorming System (k13gen-040)
William Widjaja, Kiyokazu Haga, Makoto Takahashi, and Keito Yoshii

Floating Point Arithmetic Protocols for Constructing Secure Data Analysis Application (k13gen-041)

Yun-Ching Liu, Yi-Ting Chiang, Tsan-Sheng Hsu, Churn-Jung Liau, and Da-Wei Wang

Feature Based Summarization of Customers' Reviews for Online Products (k13gen-042)
Kushal Bafnaand and Durga Toshniwal

9/11 10:30-12:30 Conf. Room 2

Session: Knowledge-Based Systems for e-Business (I)
Chair: Kazuhiko Tsuda, Nobuo Suzuki, and Masakazu Takahashi

A Test Analysis Method for Black Box Testing Using AUT and Fault Knowledge (k13is-062)
Tsuyoshi Yumoto, Toru Matsuodani, and Kazuhiko Tsud

A Method of Creating Testing Pattern for Pair-wise Method by Using Knowledge of Parameter Values (k13is-063)
Satoshi Masuda, Tohru Matsuodani, and Kazuhiko Tsuda

Comparison of ITSS definition and questionnaire to software engineer's skill improvement (k13is-066)
Rasha El-Agamy, Morimoto Chikako, and Tsuda Kazuhiko

The Extraction Method of the Service Improvement Information from a Guests' Review (k13is-067)
Koichi Tsujii, Yoshikatsu Fujita, and Kazuhiko Tsuda

Towards the Profitability Trend Extraction from the Board Meeting Proceedings (k13is-068)
Masakazu Takahashi, Kazuhiko Hashimoto, and Kenji Kido

A TV Program Recommender Framework (k13is-069)
Na Chang, Mhd Irvan, and Takao Terano

9/11 10:30-12:30 Conf. Room 3

Session: Knowledge-Based Intelligent System and Application (I)
Chair: Yuji Iwahori, Yoshinori Adachi, and Nobuhiro Inuzuka

Semantical-coordinate Terms Detection from Hierarchical Knowledge Using Web Snippets (k13is-009)
Ryosuke Yamanishi, Junichi Fukumoto, and Fumito Masui

Interactive Document Expansion for Answer Extraction of Question Answering System (k13is-012)
Junichi Fukumoto, Noriaki Aburai, and Ryosuke Yamanishi

Shape from Endoscope Image based on Photometric and Geometric Constraints (k13is-028)
Keita Tatematsu, Yuji Iwahori, Tsuyoshi Nakamura, Shinji Fukui, Robert J. Woodham, and Kunio Kasugai

Image Reproduction Based on Texture Image Extension with Traced Drawing for Heavy Damaged Mural Painting (k13is-037)
Haruki Kawanaka, Yuji Iwahori, Shinichi Kosaka, and Saburo Sugiyama

Forecasting Students' Future Academic Records Using Past Attendance Recording Data and Grade Data (k13is-039)
Hirotaka Itoh, Kenji Funahashi, Daisuke Yamamoto, Shoichi Saito, Ichi Takumi, and Hiroshi Matsuo

9/11 10:30-12:30 Conf. Room 4

Session: Intelligent Medical and Healthcare Informatics (I)
Chair: Syoji Kobashi and Hiroharu Kawanaka

An Automatic Segmentation of Bone Tunnels After Anterior Cruciate Ligament Reconstruction in MDCT ImageUsing K-means Clustering (k13is-024)
Yosuke Uozumi, Daisuke Araki, Yuichi Hoshino, Ryosuke Kuroda, Masahiro Kurosaka, and Kouki Nagamune

Feature Selection Based on Information Theory in the Clock Drawing Test (k13is-083)
Mohamed Bennasar, Antony Bayer, Yulia Hicks, and Rossi Setchi

Image-based evaluation of patient specific instrument attachment in TKA (k13is-108)
Syoji Kobashi, Yutaka Hata, Nao Shibanuma, and Akihiko Toda

Using GIS to Simulate Inpatient's Behavior and Visualize Healthcare Demand (k13is-110)
Doi Shunsuke, Ide Hiroo, Takabayashi Katsuhiko, Fujita Shinsuke, Inoue Takashi, and Nakamura Toshihito

Disease Generating Model for 3D Display of the Effect of Treatment on 3D Optical Coherence Tomography Images (k13is-112)
Ngoc Anh Huyen Nguyen, Hiroharu Kawanaka, Haruhiko Takase, and Shinji Tsuruoka

9/11 10:30-12:30 Conf. Room 5

Session: Intelligent Design and Operation for Sustainable Process Systems and Chemical Plants (I)
Chair: Hideyuki Matsumoto, Naoki Kimura, Kazuhiro Takeda, Tetsuo Fuchino, and Takashi Hamaguchi

Adaptive Soft Sensor Model using Online Support Vector Regression with the Time Variable and Discussion on Appropriate Parameter Settings (k13is-004)
Hiromasa Kaneko and Kimito Funatsu

A Method for the Identification of Multiple Blocked +ocations in a Microreactor without a Combinatorial Explosion of CFD Simulations for Database Construction (k13is-031)
Masaru Noda

Simulation-based Planning of Shutdown Operations (k13is-056)
Rafael Batres

Application Methods for Genetic Algorithms for the Search of Feed Positions in the Design of a Reactive Distillation Process (k13is-057)
Hideyuki Matsumoto and Kai Tun Lim

Generating Alternative Modules for Plant Alarm System Based on First-Out Alarm Alternative Signals (k13is-058)
Takashi Hamaguchi, Naoki Kimura, Bunta Mondori, Masaru Noda, and Kazuhiro Takeda

Optimal Layout of a Chemical Process Plant to Minimize the Risk to Humans (k13is-060)
Kyusang Han, Seonghyun Cho, and En Sup Yoon

9/11 10:30-12:30 Conf. Room 6

Session: Reasoning-based Intelligent Systems
Chair: Kazumi Nakamatsu

Rendering of Wind Effects in 3D Landscape Scenes (k13is-002)
Margarita Favorskaya and Anastasia Tkacheva

Motion Estimations based on Invariant Moments for Frames Interpolation in Stereovision (k13is-003)
Margarita Favorskaya, Aleksei Popov, and Dmitriy Pyankov

MICR Automated Recognition Based on Paraconsistent Artificial Neural Networks (k13is-109)

Sheila Souza, Jair Abe, and Kazumi Nakamatsu

9/11 10:30-12:30 Conf. Room 7

Session: Intelligent Network and Services
Chair: Jun Munemori

Evaluation of the Change of Work using Simple Electroencephalography (k13is-033)
Kouji Yoshida, Humiyasu Hirai, Isao Miyaji, and Yuta Sakamoto

A Mass Data Update Method in Distributed Systems (k13is-034)
Tsukasa Kudo, Masahiko Ishino, Nobuhiro Kataoka, Kenji Saotome, and Yui Takeda

PastePost: A Web Interface for Editing Instructions with Captured Images (k13is-043)
Motoki Miura and Shinya Yoshida

Development of Manga-style Chat System aiming to Communicate Nonverbal Expression (k13is-050)
Junko Itou, Yuichi Motojin, and Jun Munemori

RANTORE: Strategic Exertainment System Using Location Information (k13is-055)
Jun Munemori, Junko Itou, Tatsuya Korin, and Takaya Yuizono

9/11 10:30-12:30 Conf. Room 8

Session: Human-oriented Learning Technology and Learning Support Environment
Chair: Kazuhisa Seta, Tomoko Kojiri, and Toyohide Watanabe

Typical Functions of e-Textbook, Implementation, and Compatibility Verification with use of ePub3 Materials (k13is-016)
Yasuhisa Tamura, Toshiya Nakajima, and Shun Shinohara

Baseball Coaching Ability Development System Based on Externalization of Decision Process (k13is-087)
Tomoko Kojiri and Tatsuhiko Matsumoto

Visualization System for Analyzing Collaborative Learning Interaction (k13is-111)
Yuki Hayashi, Yukiko Nakano, and Yuji Ogawa

Development of MMRS (Mind Map and Relief System), an Information Sharing System for Children's Safety (k13is-114)
Hiroko Kanoh

9/11 14:00-16:00 Conf. Room 1

Session: Security Engineering for Knowledge-based & Intelligent Systems & Applications
Chair: Esmiralda Moradian

Dynamic Isolation of Network Devices Using OpenFlow for Keeping LAN Secure from Intra-LAN Attack (k13is-019)
Yutaka Juba, Hung-Hsuan Huang, and Kyoji Kawagoe

Botnet Detection with Event-Driven Analysis (k13is-030)
Joakim Ersson and Esmiralda Moradian

Semantic Representation and Integration of Digital Evidence (k13is-051)
Spyridon Dosis, Irvin Homem, and Oliver Popov

Cloud based Secure and Privacy Enhanced Authentication & Authorization Protocol (k13is-091)
Umer Khalid

Secure Audit Log Management (k13is-094)
Olof Söderström and Esmiralda Moradian

9/11 14:00-16:00 Conf. Room 2

Session: Knowledge-Based Systems for e-Business (II)
Chair: Kazuhiko Tsuda, Nobuo Suzuki, and Masakazu Takahashi

The Prediction of Ellipses Using Topic Model for Japanese Colloquial Inquiry Text (k13is-070)
Tmohiko Harada, Yoshikatsu Fujita, and Kazuhiko Tsuda

E-Business Process Modeling Issues: From the Viewpoint of Inter-organization Process Efficiency and Information Sharing (k13is-073)
Kayo Iizuka, Yasuki Iizuka, and Chihiro Suematsu

Towards Trial Simulation of Homogeneous Behavior (k13is-074)
Takao Nomakuchi, Hiroshi Kuroki, and Masakazu Takahashi

A Conceptual Model of Trademark Retrieval based on Conceptual Similarity (k13is-085)
Fatahiyah Mohd Anuar, Yu-Kun Lai, and Rossitza Setchi

An Effective Method for Habitual Behavior Extraction from the Internet (k13is-089)
Nobuo Suzuki and Kazuhiko Tsuda

9/11 14:00-16:00 Conf. Room 3

Session: Knowledge-Based Intelligent System and Application (II)
Chair: Yuji Iwahori, Yoshinori Adachi, and Nobuhiro Inuzuka

Development of the Automatic Measurement System of the Diameter of a Pupil (k13is-041)
Yoshinori Adachi, Kei Konishi, Masahiro Ozaki, and Yuji Iwahori

Proposal of the Web learning support system using the teaching materials based on the degree of achievement and note-taking techniques (k13is-042)
Masahiro Ozaki, Hiroyasu Usami, Ai Sugimura, and Yoshinori Adachi

9/11 14:00-16:00 Conf. Room 4

Session: Intelligent Medical and Healthcare Informatics (II)
Chair: Syoji Kobashi and Hiroharu Kawanaka

Extraction of Disease Area from Retinal Optical Coherence Tomography Images Using Three Dimensional Regional Statistics (k13is-113)
Ikunari Nakahara, Fadzil Abdul Kadir, Hiroharu Kawanaka, Fumio Okuyama, Haruhiko Takase, and Shinji Tsuruoka

Human Activity Monitoring using Fuzzified Neural Networks (k13is-117)
Manabu Nii, Kohei Higuchi, Yoshihiro Kakiuchi, Kazusuke Maenaka, Kazunobu Takahama, and Takayuki Yumoto

9/11 14:00-16:00 Conf. Room 5

Session: Intelligent Design and Operation for Sustainable Process Systems and Chemical Plants (II)
Chair: Hideyuki Matsumoto, Naoki Kimura, Kazuhiro Takeda, Tetsuo Fuchino, and Takashi Hamaguchi

A Conversion Method from ETSC to Timed Petri Net to Improve the Matrix-based Discrete Event Controller and its Unified Support System (k13is-061)
Hisaaki Yamaba, Tetsuro Katayama, Shoichiro Kitano, Naonobu Okazaki, Tomita Shigeyuki, and Kayoko Takatsuka

Detection of Cyber-Attacks with Zone Dividing and PCA (k13is-064)
Yoshihiro Hashimoto, Masato Koike, Ichiro Koshijima, Takahito Morita, Jung Sun, and Shuichi Yogo

9/11 14:00-16:00 Conf. Room 6

Session: Collective Intelligence and Intelligent Data Analysis
Chair: Katsuhiro Honda and Tomoe Entani

Dual Exclusive Partition in Fuzzy CoDoK and SCAD-based Fuzzy Co-clustering (k13is-040)
Chi-Hyon Oh and Katsuhiro Honda

A Greedy Algorithm for k-Member Co-clustering and Its Applicability to Collaborative Filtering (k13is-044)
Katsuhiro Honda, Hirohide Kasugai, Arina Kawano, and Akira Notsu

Introduction of Majority Vote of Neighborhood Conditions for Sneak Form Reinforcement Learning (k13is-079)
Yuki Tezuka, Katsuhiro Honda, and Akira Notsu

Intergration of Information Based on the Similarity in AHP (k13is-080)
Akira Notsu, Katsuhiro Honda, Hirokazu Kawakami, and Yuki Tezuka

Encouragement of Group Decision beyond Sum of Individuals based on Possible Estimations (k13is-084)
Tomoe Entani

9/11 14:00-16:00 Conf. Room 7

Session: Intelligent Systems Research Progress Workshop
Chair: Junzo Watada

Detection of Cyber-Attacks with Zone Dividing and PCA (isrp13-002)
Yoshihiro Hashimoto, Takahito Morita, Masato Koike, Takashi Hamaguchi, Ichiro Koshijima, and Shuichi Yogo

Empirical Research in Luxury Brand Image in Japan (isrp13-003)
Zhiqing Jiang and Shinya Nagasawa

Study of Overload Control Problem for Intelligent LTE M2M Communication System (isrp13-004)
Yao-Chung Chang

Optimized Communications on Cloud Computer Processor by Using Parallel Genetic Algorithms and Parallel Computing (isrp13-005)
Nicolas Lassabe

Plan State Representation Using Heterogeneous Data Sources (isrp13-006)
Santa Maiti, Plaban Bhowmick, and Debnath Mukherjee

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	W:	Wednesday (11 Sept)
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	KS:	Keynote speaker,
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	Rn:	Conference Room n
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Invitation to Welcome Reception of KES2013

Please join the welcome wine party of KES2013 held just after registration (15:00 to 17:00) at 1F at Conference Hall, on September 8, 2013.

The Welcome Wine Party is held at Flamingo Café from 18:00 to 19:30.

Date: September 8, 2013 (18:00 to 19:30)

Place: **Flamingo Café**

AIM building 2 F : 3-8-1 Asano, Kokurakita-ku, Kitakyushu-shi
Just in front of the convention hall.

Contact: Mobile phone 090-3464-4929 (Junzo Watada)

AIM building 2 F : 3-8-1 Asano, Kokurakita-ku, Kitakyushu-shi

Tel: 093-513-7817 (café)

Invitation to Banquet of KES2013

The banquet of KES2013 is held from 19:00 to 21:00 on Sept. 10, 2013 at MOJIKO Hotel 2F. The Ticket is required.

Date:
Sept. 10, 2013 (19:00 to 21:00)

Place:
MOJIKO Hotel, 9-11 Minatomachi Moji-ku, Kitakyushu-shi, Fukuoka-ken
http://www.mojiko-hotel.com/

Transportation:
The Way 1: The Free Shuttle Bus will be arranged at 16:00 and 17:30 departures at 2F Lobby of Rihga Royal Hotel.

(Attention:1)
16:00 departure shuttle bus provides free tour at retrospective sightseeing spot. Around 1 hour. And you can take a shopping chance.

(Attention:2)
You may take a train from KOKURA JR Station (terminal) to MOJIKO JR Station. It takes 30 minutes. The hotel is just located at 5-minute walk distance. You take any train bounded for Mojiko JR Station which is terminal.

Contact:
Mobile phone 090-3464-4929 (Junzo Watada), Junzo Watada (Chair)

9-11 Minatomachi Moji-ku, Kitakyushu-shi, Fukuoka-ken,
Tel: 093-321-1111(hotel)

(Note) Each Lunch ticket indicates the lunch place. If the reseurant is full, you may move to another restaurant.
When you prefer vegitarianl fool you have to visit Lunch Place (3).

Lunch Place (1)

KES2013 offers the lunch to participants from Lunch time at **Ristorante Passo del mare**

Date: Sept. 9 and 11, 2013

Place: **Ristorante Passo De l' Mare**
(The 2F of the convention hall)

Kitakyushu International Conference Center 2F:
3-9-30 Asano, Kokurakita-ku, Kitakyushu-shi

Contact: Mobile phone 090-3464-4929
(Junzo Watada)

Convention Hall 2F:
3-9-30 Asano, Kokura Kita
Tel: 050-5852-3735

Lunch Place (2)

KES2013 offers the lunch to participants from Lunch time at **Flamingo Café**

Date: Sept. 9 and 11, 2013

Place: **Flamingo Café**

AIM building 2 F : 3-8-1 Asano,
Kokurakita-ku, Kitakyushu-shi
Just in front of the Convention hall

Contact: Mobile phone 090-3464-4929
(Junzo Watada)

AIM building 2 F : 3-8-1 Asano, Kokurakita-ku, Kita

Tel: 093-513-7817 (café)

Lunch Place (3)

Vegitarian

KES2013 offers the lunch to participants from Lunch time at Coffee House Corbeille on 2F, Rihga Royal Hotel

Date: Sept. 9 and 11, 2013

Place: **Coffee House Corbeille**

2-14-2 Asano, Kokurakita-ku, Kitakyushu, Fukuoka 802-0001
Phone: +81 (0)93-531-1121

Contact: Mobile phone 090-3464-4929
(Junzo Watada)

Rihga Royal Hotel 2F:
2-14-2 Asano, Kokurakita-ku,
Tel: 093-531-1121

KES 2013 General Information

Access to Conference Venue

[A] From International Terminal, **Fukuoka Airport (FUK)**

(1) Take a free shuttle bus to Domestic Terminal and
take a subway to Hakata JR Station.
Take an Express (70 minutes, 1250JPY) or
Limited express (about 45 minutes, 1750JPY, round 2600JPY) to Kokura.
You may take a shinkansen (bullet) train (about 17 minutes 3500JPY.

(2) Take a free shuttle bus to Domestic Terminal and
Take a highway bus to Kokura JR Station (about 80 minutes, 1200JPY, only once an hour.)

(3) You can take a taxi to JR Hakata Station from International Terminal or Domestic Terminal.
It takes 10 to 15 minutes (about 1500JPY to 2000JPY).

[B] From Domestic Terminal, **Fukuoka Airport (FUK)**
Go to (A-1), (A-2)

[C] From **Kitakyushu Airport**
Take a highway bus to Kokura JR station.
It takes about half an hour (about 700JPY).

[D] Form many places you can access to Kokura JR station. For example it takes 2 hours and 17 minutes from Shin Osaka JR Station (14,250JPY) or 4 and half hours from Tokyo JR Station (about 21,890JPY).

Conference Office and Registration

Days: Sept 8 (Sun) 15:00-17:00 at 1F, Convention Hall
Sept 9 (Mon) 8:00-17:00 at 2F Subfoyer, Convention Hall
Sept 10 (Tue) 8:30-16:00 at 2F Subfoyer, Convention Hall
Sept 11 (Wed) 8:30-13:00 at 2F Subfoyer, Convention Hall

WiFi Access

Network is free access.

Coffee Breaks

Coffee, beverages, cake.
Days: Mon, Tue, Wed
Place: 2F Subfoyer, Convention Hall
Time: Coffee break times

Taxi Service

The most easy way to call a taxi is to ask a bell at a hotel.
In Japan English is not understandable. But if you cannot have any contact, please call Dai Ichi Kotsu Taxi (Tel: 0120-195-890). When you will inform them the code “KES”, then they will connect your call with an English speaking staff.

Emergency Call

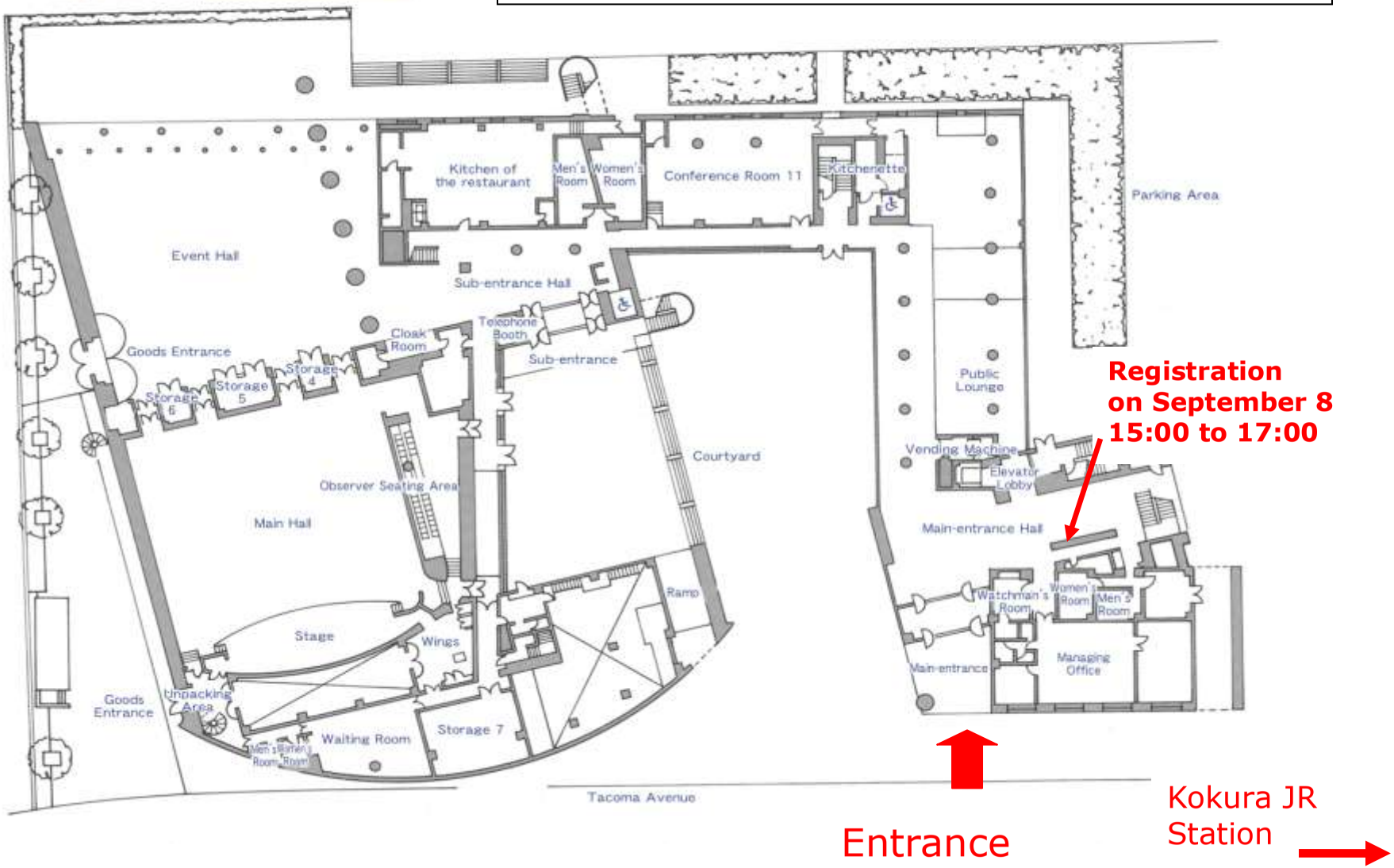
Ambulance: phone 911
Police: Phone 110

KES2013 local contact

Junzo Watada
International Call: +81-90-3464-4929
Local call: 090-3464-4929
Skypewatada
junzow@osb.att.ne.jp

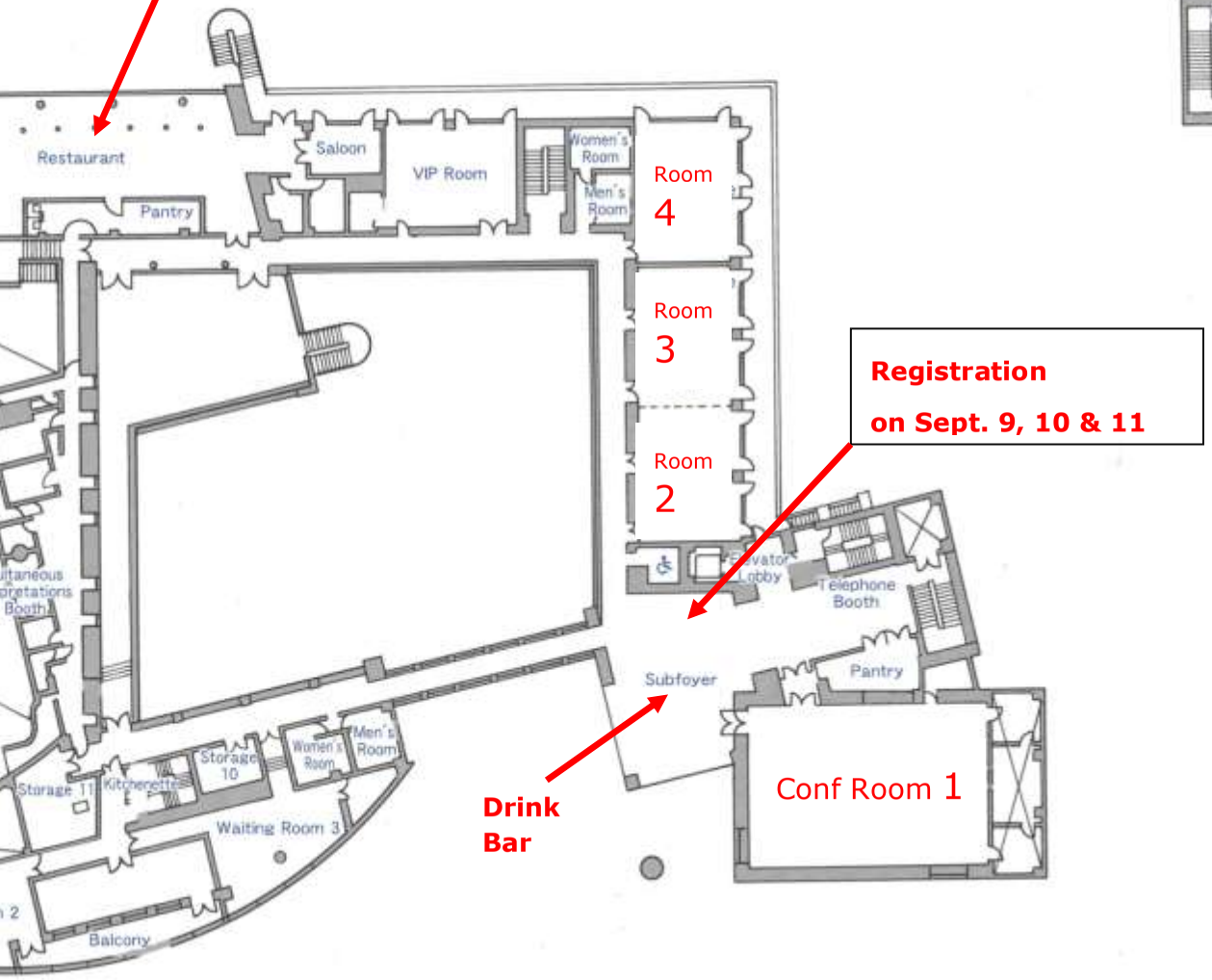
1st Floor Layout

International Convention Hall



2nd Floor Layout

Ristorante Passo De l' Mare



Registration on Sept. 9, 10 & 11

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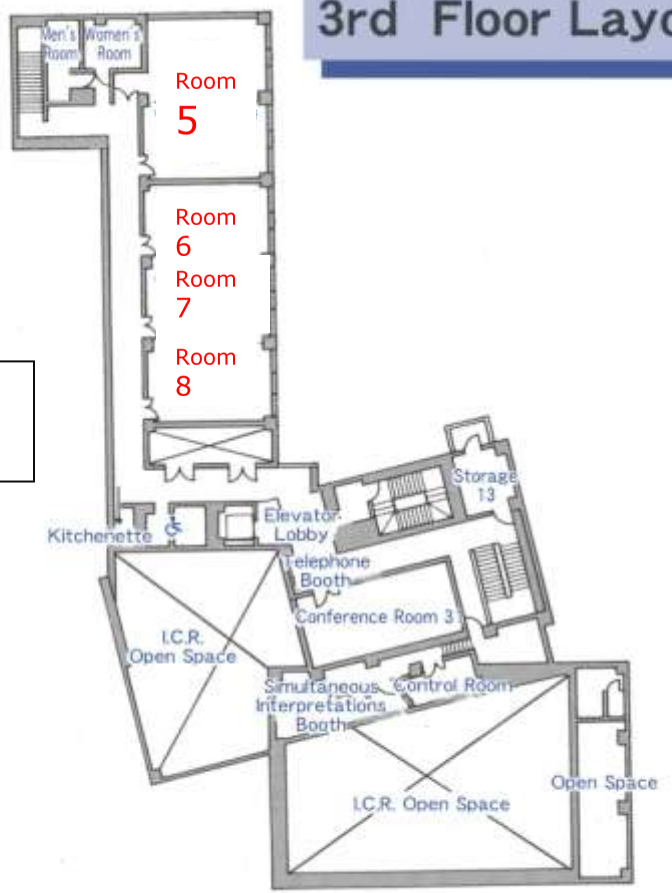

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