

Symposium Program Book



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Management Engineers



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Journal of Advanced Computational
Intelligence and Intelligent

International Symposium on Management Engineering 2012

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Preface

It is a great pleasure for us to declare the opening of the Ninth International Symposium on Management Engineering that started in Kitakyushu since March 2004. We wish you will have a wonderful time here.

The objective of the symposium is to promote the researches in the field of Management Engineering in various fields of management from private companies to public organizations. It places stress on the methodologies employed in the management engineering, that include not only operational research and management science but also theoretical and methodological research works such as soft computing methods. The symposium covers wide ranges of management and methodologies as you will find in the program.

We have the two keynote speeches on

Dr. Kashi R. Balachandran, Distinguished Professor, G. D. Goenka World Institute, Delhi, India and Prof. Emeritus, New York University, USA will give a talk on "The Valuation and Reporting of Organizational Capability in Carbon Emissions Management." Dr. Jeng-Shyang Pan, Professor in the Department of Electronic Engineering, National Kaohsiung University of Applied Sciences, Taiwan talks on "Overview of Swarm Intelligence."

Also we provide the four tutorial given by

Dr. Jaeseok Choi (Gyeongsang National University, Korea on "Probabilistic Reliability and Production Cost Evaluations of Power Systems Including Renewable Energy Generators," Hisao Shiizuka (Kogakuin University, Japan) on "Scale-Free Network in a Super-Aging Society," Dr. Long Thanh Ngo (Le Quy Don University, Viet Nam) on "CTIN-based General Type-2 Fuzzy Logic Systems," and Dr. Gwo-Hshiung Tzeng (Kainan University, Taiwan) on "A New concepts and trends of Hybrid MCDM Model for Problems-Improvement."

We received papers from different regions such as Australia, China, Hungary, India, Japan, Korea, Mexico, Taiwan and USA. We are welcoming all participants to join the discussion of recent advanced results from the perspective of management engineering, optimization, MCDM, supply chains and e-Commerce as well as methodological research studies including soft computing and DNA computation. We wish the symposium space can enable us to accelerate the research works in management engineering further.

We express the thanks to the International Society of Management Engineers, Waseda University, the City of Kitakyushu, West Japan Industry and Trade Convention Association that have fully supported the organization of the symposium and also appreciate the support of other institutes. Also we express many thanks for ICIC international support the ISME2012 to organize issues for IJICIC and ICIC express letters as well as JACIII as the post-symposium publication.

We hope that the symposium will play a pivotal role in the research progress of management engineering, industrial management and other related fields. At the end, we would like to inform you the 10th anniversary of the symposium will be held at an old capital, Hangzhou, China in October, 2013. We welcome you to join the symposium again in China.

Executive President of ISME
Junzo Watada, Professor, Waseda University

Keynote Speeches



Dr. Kashi R. Balachandran

Distinguished Professor,
G. D. Goenka World Institute, Delhi, India
Prof. Emeritus, New York University, USA

The Valuation and Reporting of Organizational Capability in Carbon Emissions Management

at Room A, 10:30-11:30 on August 23, 2012

Abstract: Under various carbon emissions trading schemes proposed around the world (including the United States), organizations will need to implement carbon management schemes to meet carbon ration targets, earn revenue and reduce costs. Emission Trading Schemes will impact the accounting profession significantly; however, discussions on how to report these transactions are in the very formative stages. So far the accounting literature has focused on the reporting of *current* carbon assets and liabilities in the balance sheet and the timing effects of carbon releases in the income statement. However, there has been little or no discussion as to how to value and report the underlying *non-current* assets (and liabilities) that produce or use carbon allowances on the *balance sheet*. This paper proposes a model for valuing an organization's non-current carbon sequestration and emission capabilities. A new metric, *Environmental Capability Enhancing Asset (ECEA)*, is introduced as the underpinning for the conversion of non-monetary CO₂ emission and sequestration measures to monetary values.

Biodata: Bala K. R. Balachandran is a professor emeritus of accounting and operations management at New York University Stern School of Business, Editor in Chief of Journal of Accounting Auditing and Finance. He is currently Distinguished Institute Professor of G.D. Goenka World Institute where he advises the management on strategic development of the institute. He is also a Chair Professor of Accounting at Tunghai University in Taiwan. He is an organizing member of the Taiwan- Italy Internship Program in its second year of operation and the China- Italy Internship program, for students from Taiwan and China to serve in Italian companies as interns.

Professor Balachandran joined Stern in 1979. His primary areas of research include optimal operation of service systems, incentive contracts and mechanisms, transfer pricing determinations, conceptualization of unused capacities and their optimal utilization, warranty contracts, quality enhancement programs and reporting, activity based costing systems, business measurement systems and optimal performance evaluations. In addition, he has contributed to sustainable business development, global warming research and management educational process. Professor Balachandran has written and published more than 75 articles in leading academic journals of economics, accounting, operations research and management science. He is the editor-in-chief of the *Journal of Accounting Auditing and Finance* and the Senior Consulting Editor of *Journal of Applied Management Accounting*. In addition to serving on the editorial boards of several journals, he has refereed for numerous journals and research funding agencies. He has organized numerous conferences and symposiums for JAAF in New York and Europe. As the organizer of the annual KPMG/JAAF conference in New York, he coordinates with KPMG on their funding for the conference. He is on the staff of Ross Institute of Accounting Research at New York University that develops liaison with Industry.

Before joining Stern, Professor Balachandran taught at the University of Wisconsin, the Georgia Institute of Technology and University of Kentucky, and has been a frequent visiting professor of management control and performance measurement at SDA Bocconi University, Italy, visiting professor at University of

Rome-TorVergata and International University of Japan. He is also a Chair Professor at Tunghai University and a regular participating professor for the Italian Summer School for doctoral students from around the world. He has served as the associate director of the Ross Institute of Accounting Research and doctoral program director of accounting at New York University and a member of the Wisconsin Governor's Commission on Education. He has lectured internationally in the United States, Europe and Asia in several conferences and universities. He served as a member of the Asian American Advisory Council to the Governor's office in New Jersey and is a member of the International Advisory Board of the Indian Institute of Finance Business School in India. He has given executive seminars at the Stern School of Business and internationally on Information Analysis for Managerial Decision Making and related topics.

Professor Balachandran earned his Bachelor of Engineering (with honors) in Mechanical Engineering from University of Madras, India; Master of Science in industrial engineering and Doctor of Philosophy in operations research from the University of California, Berkeley and his certificate in management accounting from the Institute of Management Accountants.



Dr. Jeng-Shyang Pan

Professor in the Department of Electronic Engineering,
National Kaohsiung University of Applied Sciences, Taiwan.

Overview of Swarm Intelligence

at Room A, 9:00-10:00 on August 25, 2012

ABSTRACT: Swarm intelligence (SI) is based on collective behavior of self-organized systems. Typical swarm intelligence schemes include particle swarm optimization (PSO), ant colony system (ACS), stochastic diffusion search (SDS), bacteria foraging (BF), the bees algorithm, swarm robotics, etc. Besides the applications to conventional optimization problems, SI can be used in controlling robots and unmanned vehicles, predicting social behaviors, enhancing the telecommunication and computer networks, etc. Indeed, the use of swarm optimization can be applied to a variety of fields in engineering and social sciences. This talk reviews some popular algorithms in the field of swarm intelligence for problems of optimization. The detail overview and experiments of Particle and Cat Swarm Optimization, Ant Colony System (ACS) and Artificial Bee Colony are given.

Biodata: Jeng-Shyang Pan received the B. S. degree in Electronic Engineering from the National Taiwan University of Science and Technology in 1986, the M. S. degree in Communication Engineering from the National Chiao Tung University, Taiwan in 1988, and the Ph.D. degree in Electrical Engineering from the University of Edinburgh, U.K. in 1996. Currently, he is the Doctoral advisor both in Harbin Institute of Technology and Professor in the Department of Electronic Engineering, National Kaohsiung University of Applied Sciences, Taiwan. He has published more than 400 papers in which 110 papers are indexed by SCI. He is the IET Fellow, UK and the Tainan Chapter Chair of IEEE Signal Processing Society. He was Awarded Gold Prize in the International Micro Mechanisms Contest held in Tokyo, Japan in 2010. He was also awarded Gold Medal in the Pittsburgh Invention & New Product Exposition (INPEX) in 2010, Gold Medal in the International Exhibition of Geneva Inventions in 2011 and Gold Medal of the IENA, International "Ideas – Inventions – New products", Nuremberg, Germany. He was offered Thousand-Elite-Project in China. He is on the editorial board of International Journal of Innovative Computing, Information and Control, LNCS Transactions on Data Hiding and Multimedia Security, and Journal of Information Hiding and Multimedia Signal Processing. His current research interests include soft computing, robot vision and signal processing.

9th International Symposium on Management Engineering

August 22	
16:00 - 17:30	Registration CONVENTION HALL 2F
18:00 - 19:30	Welcome Reception (Flamingo)

August 23	
9:00 - 17:00	Registration CONVENTION HALL 2F
10:00 - 10:30	Opening
10:30 - 11:30	KEYNOTE Room A "The Valuation and Reporting of Organizational Capability in Carbon Emissions Management" by Prof. Dr. Kashi R. Balachandran (G. D. Goenka World Institute, Delhi, India)
11:30 - 13:30	Lunch at De Passo
13:30 - 14:30	Session T11 Chair: Tomonori Kawano T11a Run-Length Encoding (RLE) Graphic Rules, Molecular Biologically Editable Designs, and Steganographical On-Image Numeric Data Embedment for DNA-based Cryptographical Coding System, by Tomonori Kawano T11b Primitive Optical Computing Model with Films: Boolean Conjunction of the Square Matrix-Arrayed Color Codes, by Tomonori Kawano T11c Electrically Controlled Two-dimensional Cell Migration and Transport of Plastic Microspheres Using Paramecium bursaria as Bio-micromachines, by Kohei Otsuka and Tomonori Kawano
14:30 - 15:00	Coffee Break
15:00 - 16:00	Session T12 Chair: Tomonori Kawano T12a Use of Colored Reflectors for Negation or Highlighting of Scanned Color Information on Film-based CIELAB-coded Optical Logic Gate Models, by Kiyoshi Moritaka and Tomonori Kawano T12b Solving a Consumer Behavior Classification Problem Based on Molecular and Fuzzy Similarity Methods, by Ikno Kim and Junzo Watada T12c
16:00 - 16:30	Coffee Break
16:30 - 17:30	Session T13 Chair: Huey-Ming Lee T13a Fuzzy Assessment of the Risk Rate with Confidence Interval in Software Development, by Huey-Ming Lee, Lily Lin, Jin-Shieh Su T13b Determining operating information of financial statement using a hybrid approach of rough sets and artificial neural networks, by You-Shyang Chen, Da-Ren Chen, Ching-Hsue Cheng, Yan-Yu Chen, T13c Time Aggregation Effect on Regression Models, by Rong Jea, Teng-San Shih and Huey-Ming Lee
17:30 - 18:30	Bus departs at 18:00
18:30 - 21:00	BANQUET (Art Museum)

13:30 - 14:30	Session T21 Chair: Long Thanh Ngo T21a Image Segmentation Method Based on Automatic Clustering Weighting Fuzzy C-Means Algorithm, by Yujie Li, Huimin Lu, Bolong Chen, Lifeng Zhang, Akira Yamawaki, Shiyuan Yang and Selichi Serikawa T21b A Genetic Type-2 Fuzzy C-Means Clustering Approach to M-Fish Segmentation, Dzung Dinh Nguyen, Long Thanh Ngo, Junzo Watada T21c Three Methods of Defuzzification of Fuzzy Number on Inventory, by Kung-Han Yang, Yung-Cheng Wang, and San-Chyi Chang
14:30 - 15:00	Coffee Break
15:00 - 16:00	Session T22 Chair: Gwo-Hshiung Tseng T22a Applying Fuzzy Preference Relation and Grey Relation Analysis in the Assessment of Railway Grade Separation Construction Projects, by Hsin-Hsien Liu, Ming-Shan Yeh, Yung-Hui Chou, Gwo-Hshiung Tseng T22b A Game Theoretical Framework for Low Carbon Growth Partnership, by Mayuko Miyata, Takashi Tsubota, and Shao-Chin Sung T22c Color Texture classification using DLBP, by G. Tamil Pavaai and S. Tamil Selvi
16:00 - 16:30	Coffee Break
16:30 - 17:30	Session T23 Chair: Shin'ya Nagasawa T23a Brand Innovation and Luxury Brand Construction in a Competitive Market - Case Study of Bally and Tod's Japan - by Zhiqing Jiang and Shin'ya Nagasawa T23b Luxury Fashion Brand Image Building: the Role of Store Design in Bally and Tod's Japan, by Zhiqing Jiang and Shin'ya Nagasawa T23c Emotional Value Communication Strategy - Case of the Swiss Watch Industry, by Kana Sugimoto, Shinichiro Terasaki and Shin'ya Nagasawa

August 24	
08:00	Departure at 2F of Rihga Royal Hotel at 8:00 am
08:00 - 19:00	One day tour (10,000JPY)

Tutorial talks are provided on August 25 (Saturday)

- 1 Dr. Jaeseok Choi (Gyeongsang National University, Korea) (10:30 Room B)
"Probabilistic Reliability and Production Cost Evaluations of Power Systems Including Renewable Energy Generators"
- 2 Hisao Shiizuka (Kogakuin University, Japan) (11:00 Room B)
"Scale-Free Network in a Super-Aging Society "
- 3 Dr. Long Thanh Ngo (Le Quy Don University, Viet Nam) (13:30 Room B)
"CTIN-based General Type-2 Fuzzy Logic Systems"
- 4 Dr. Gwo-Hshiung Tseng (Kainan University, Taiwan) (14:00 Room B)
"A New concepts and trends of Hybrid MCDM Model for Problems-Improvement"

August 25

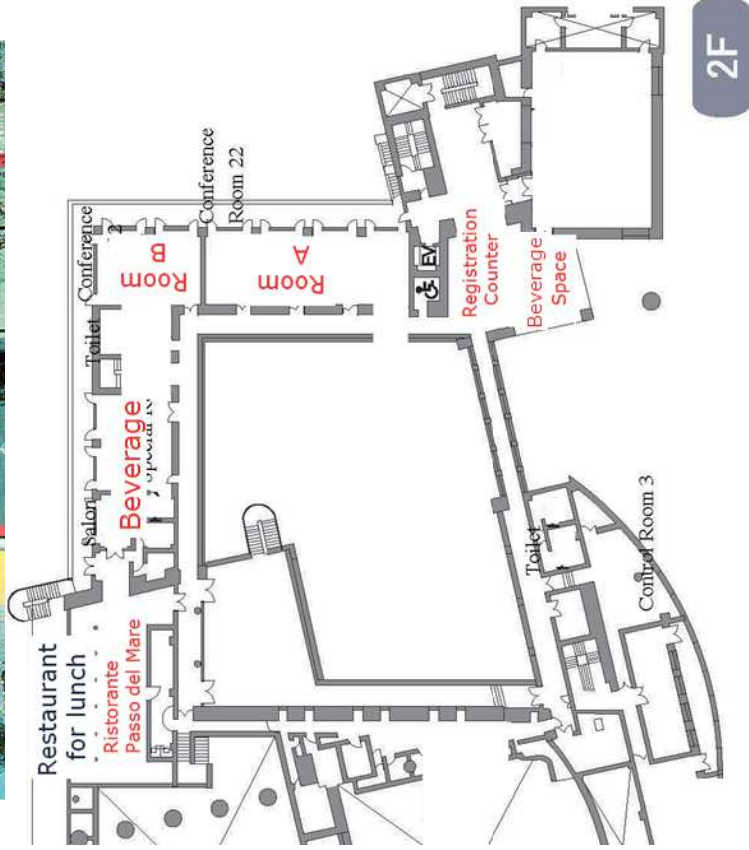
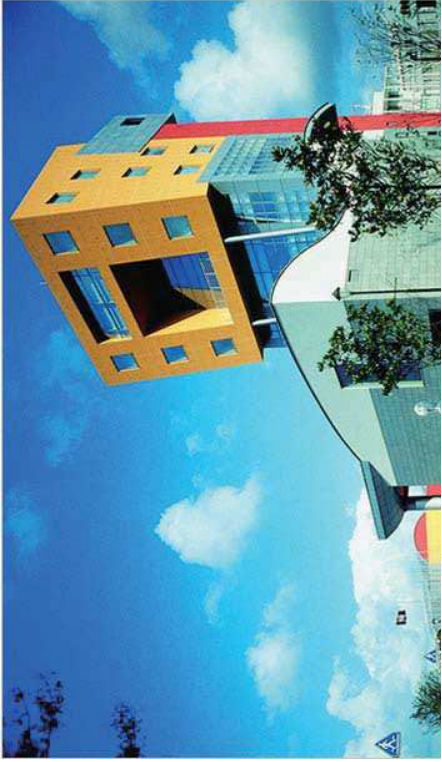
9:00 - 10:00	KEYNOTE Room A	"Overview of Swarm Intelligence" by Prof. Dr. Jeng-Shyang Pan (Professor, National Kaohsiung University of Applied Sciences, Taiwan)	
10:00 - 10:30	Coffee Break		
10:30 - 11:30	Session S11 Chair: Janos Botzheim	S11a	The Modified Economic Manufacturing Quantity Model Based on Inspection Error, Quality Loss, and Shortage, by Chung-Ho Chen and Chiung-Hui Tsai
		S11b	Multiplicative Evaluation Model for Alternative-Fuel Buses Selection, by Jun-Yi Shiu, Shih-Tong Lu, Cheng-Wei Lin
		S11c	Constructing optimal railway time-table using fuzzy fitness function in bacterial memetic algorithm, by Zsolt Danyadi, Peter Foldes1, Janos Botzheim
11:30 - 13:30	Lunch at De Passo		
13:30 - 14:20	Session S12 Chair: Ikno Kim	S12a	Application of Clustering Based on DNA Computing to Evaluation Project Management methodology, by Yu-Yun Chang, Junzo Watada, Ikno Kim, Meng-Jong Kuan, Gwo-Hshiung Tzeng
		S12b	Knowledge Retrieval for Project Management, by Shinji Mochida
		S12c	The Evaluation Criteria for Recruiting Local Staffs by Taiwanese Enterprise in China, by Shih-Tong Lu, Cheng-Wei Lin, Dong-Shang Chang
14:20 - 14:40	Coffee Break		
14:40 - 15:40	Session S13 Chair: Jaeseok Choi	S13a	Solar Radiation Estimation using Artificial Neural Network- Case Studies In Korea, by Fengming Zhang, Kyeonghee Cho and Jaeseok Choi
		S13b	Transmission System Expansion Planning Considering Outage Cost and Probabilistic Reliability Constraint, by Jintaek Lim, Jaeseok Choi, and Donghoon Jeon
		S13c	Probabilistic Reliability Evaluation for the 5th Long-Term Electricity Supply Planning in South Korea, by Taegon Oh and Jintaek Lim, Jaeseok Choi, and Donghoon Jeon
15:40 - 16:00	Coffee Break		
16:00 - 17:00	Session S14 Chair: Junzo Watada	S14a	Convergence of Meta-Controlled Double Layered Neural Network, Junzo Watada
		S14b	A Game Approach to Competitive Decision Making in Logistics, by Thisana Waripan, Rosarin Durongdej, Junzo Watada
		S14c	A Linguistic Random Variable Approach to Regression Model, Shinya Imai and Junzo Watada
17:00 - 17:30	CLOSING		
18:00	Depart at 18:00		
18:30 - 21:00	Farewell Party at Mojiko Hotel (joint with ICGEC2012)		

10:30 - 11:30	Tutorial 1 Chair: Junzo Watada	Probabilistic Reliability and Production Cost Evaluations of Power Systems Including Renewable Energy Generators	
		Jaeseok Choi (Gyeongsang National University, Korea)	
11:30 - 13:30	Tutorial 2 Chair: Junzo Watada	Scale-Free Network in a Super-Aging Society	
		Hisao Shiizuka (Kogakuin University, Japan)	
11:30 - 13:30	Lunch at De Passo		
13:30 - 14:20	Tutorial 3 Chair: Junzo Watada	CTIN-based General Type-2 Fuzzy Logic Systems	
		Long Thanh Ngo (Le Quy Don University, Viet Nam)	
	Tutorial 4 Chair: Junzo Watada	A New concepts and trends of Hybrid MCDM Model for Problems-Improvement	
		Gwo-Hshiung Tzeng (Kainan University, Taiwan)	
14:20 - 14:40	Coffee Break		
14:40 - 15:40	Session S23 Chair: Gwo-Hshiung Tzeng	S23a	Using hybrid fuzzy MCDM to improve accreditation performance, by Kua-Hsin Peng, Gwo-Hshiung Tzeng, Hao-Lin Tseng
		S23b	New Thinking of Multi-Objective Programming with Changeable Space - In Search of Excellence, by Jih-Jeng Huang, Gwo-Hshiung Tzeng
		S23c	
15:40 - 16:00	Coffee Break		
16:00 - 17:00	Session S24 Chair: Vyacheslav V. Kalashnikov	S24a	Consistent Conjectural Variations Equilibrium in Partially Mixed Duopoly and Oligopoly. Part 1, by Nataliya I. Kalashnykova and Vyacheslav V. Kalashnikov, Felipe J. Castillo Perez
		S24b	Consistent Conjectural Variations Equilibrium in Partially Mixed Duopoly and Oligopoly. Part 2, by Nataliya I. Kalashnykova and Vyacheslav V. Kalashnikov, Felipe J. Castillo Perez
		S24c	

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Kitakyushu International Conference Center



ISME2012

Invitation to Welcome Party

It is a pleasure for us to invite you to the welcome party of ISME2012 held from 18:00 to 19:30 on August 22, 2012 at **Flamingo Cafe**. Please join us.

Place: 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)

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Invitation to Banquet

It is a pleasure for us to invite you to the banquet of ISME2012 held from 19:00 to 21:00 on August 23, 2012 at Edamitsu Garden. Please join us.

Place: 11-52 Sayagatani-Cho, Tobata-ku, Kitakyushu-shi, Moving: departure at 18:00 at the exit of Conference Hall.

Attention: When you missed a shuttle bus to a banquet place,

(1) take a local train from JR Kokura Station bound for Hakata, and get off at JR Edamitsu Station (桜光) or at JR "Space World" Station. And take a taxi to **Sayagatani Garden**. The distance is 1.5km(2,000JPY).

(2) From Kokura Eki Mae, take a bus of 1, 7, 22, 43, 92, 79, and get off at Hichijo (七条). Then take a taxi to **Sayagatani Garden**. The distance is 500m (800JPY).

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



Edamitsu Garden

11-52 Sayagatani-Cho, Tobata-ku, Kitakyushu-shi,
Tel: 093-871-3333 (restaurant)

Show this
Japanese to a
taxi driver

鞘が谷ガーデンに行ってください
鞘が谷町 11-52 電話 093-871-3333
(please go to Sayagatani Garden.)

ISME2012

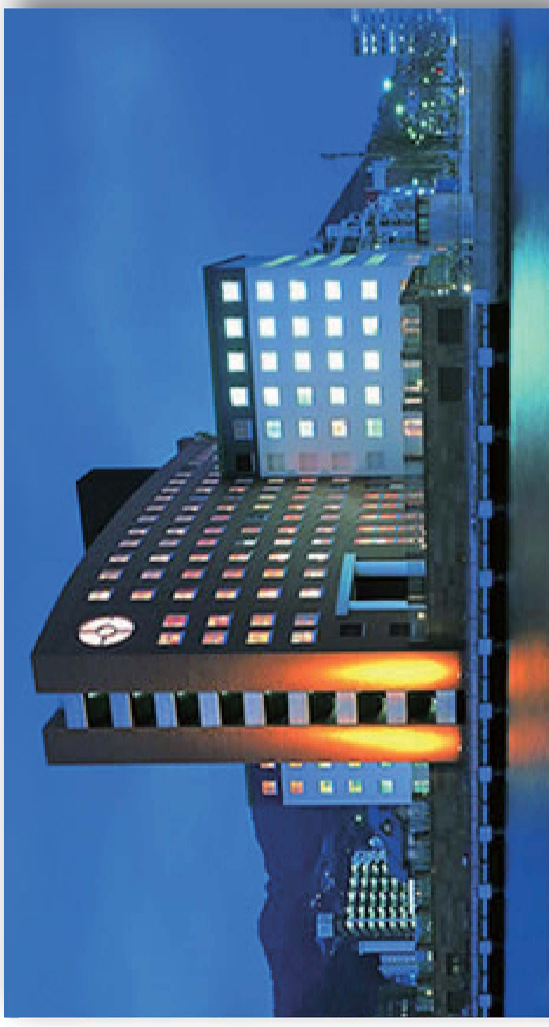
Invitation to Farwell Party Mojiko Hotel 2F

It is a pleasure for us to invite you to the farewell party of ISME2012 held from 19:00 to 21:00 on August 25, 2012 at **Mojiko Hotel 2F**. Please join us.

Transport: 16:00 and 18:00 departures at the exit of Conference Hall.

Attention : You may take a train from JR Kokura Station for Mojiko Station (Moji Harbor). Get off at Mojiko (terminal). Then a 5-minute walk to Mojiko Hotel (200m).
Mojiko is a retrospective sightseeing spot.

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



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

One day Tour on August 24, 2012

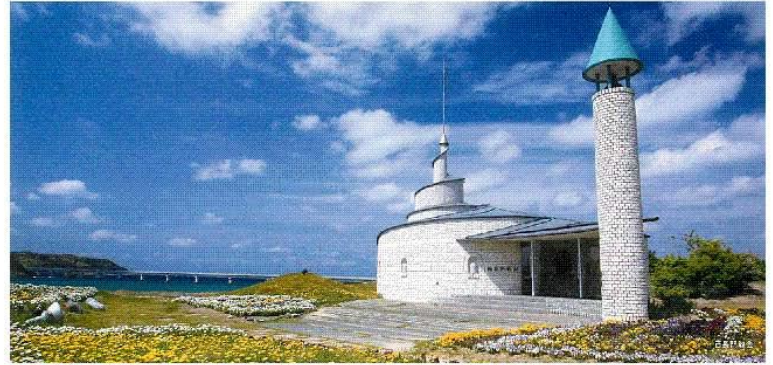
One day tour to Oomi Islands and Nishinagato with hot spring bathing
Oomi Islands are one of the most beautiful sceneries in Japan
Cruising in the islands and find various scenes on the sea

After then we will move to Nishinagato. We stay there for some hours to enjoy a delicious lunch and, if you like, taking a hot spring bath at Nishinagato Hotel. The fee is included in the tour. They provide a variety of baths in the inside as well as seeing the scenery in the outside of the building.

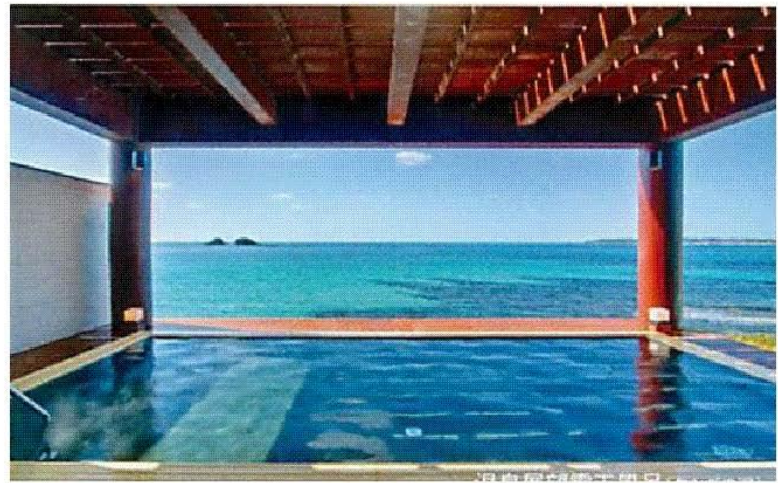
Then, we will be back running the sea side of Japan Sea.

Cost: 10,000JPY including transportation, crusing, lunch and bathing
Deadline to researve: August 10, 2012.

Application form: Please down-load from the web and send it to
isme@list.waseda.jp



Nishinagato Chairch



Prof. Junzo Watada

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ISME2013

**The 10th Anniversary of
International Symposium of
Management Engineering**

held at

Hangzhou, China

in October 11th-13th, 2013

