



The 6<sup>th</sup> Asian Conference on  
Intelligent Information and  
Database Systems

**CONFERENCE  
PROGRAM**

**April 7 – 9, 2014  
Bangkok, THAILAND**





# The 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems

**ACIIDS 2014**

**April 7 – 9, 2014**

**Bangkok, THAILAND**

**<http://www.ic.kmitl.ac.th/aciids2014/>**

**Conference Program**

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## WELCOME MESSAGES

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### **Welcome Message from INTERIM PRESIDENT King Mongkut's Institute of Technology Ladkrabang**

On behalf of King Mongkut's Institute of Technology Ladkrabang (KMITL), it is my great pleasure that we co-organize the 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems 2014 (ACIIDS 2014) with the Wroclaw University of Technology, Poland. This conference is a forum for researchers to share information and to enable old friends and colleagues to meet. The venue is at the Grande Centre Point Hotel Terminal 21, down town in Bangkok, and the conference date is April 7-9, 2014, just before the Thai New Year "Songkran".

KMITL, established in 1960, is an institute which focuses in science and technology. There are seven faculties including Engineering, Architecture, Agricultural Technology, Agro-industry, Science, Industrial Education, and Information Technology. We also have College of Data Storage Innovation, Administrative and Management College, Nano-technology College, and International College. All are in the main campus at Ladkrabang district near the Suvarnabhumi Airport. The other campus, Chumporn Campus is in the southern part of Thailand where it contributes to higher education in the South of Thailand. It has a large piece of land that can be used as a big laboratory for field practices.

KMITL provides educations in both the undergraduate and graduate studies and is widely opened to collaborative research. The department of computer engineering, the department of computer science, the software engineering program at the international college, and the faculty of information technology provide education and research in the area of intelligent information and database system.

Bangkok is a metropolitan city with variety of modern and ancient cultures where there a lot of interesting sightseeing spots. April is in the summer of Thailand when the highest temperature can reach 40 degree Celsius. However, April 13 is the Thai traditional New Year and people enjoy Songkran festival by pouring water to other people to reduce temperature. Please don't miss.

I welcome you to Bangkok and the ACIIDS 2014 conference.

**Prof. Monai Krairiksh**

Interim President

King Mongkut's Institute of Technology Ladkrabang

## **Welcome Message from GENERAL CHAIRS**

On behalf the Steering, Program, and Organizing Committees, we are pleased to welcome you to the 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems 2014 (ACIIDS 2014).

King Mongkut's Institute of Technology Ladkrabang is delighted and honored to host the 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems 2014 (ACIIDS 2014). We are enormously proud to be part of the prestigious community of Intelligent Information and Database System in Asia.

This conference aims to provide:

- an internationally respected forum for scientific research into new trends and challenges of intelligent information and database systems.
- an excellent opportunity for researchers to discuss modern approaches and techniques for social networks, data mining, machine learning, computational intelligence, recommendation systems, decision support systems, and computer vision.

We hope you find this conference both interesting and stimulating and that you enjoy meeting up with old friends and making new contacts. We anticipate also this conference will prove to be an inspiring and truly transformative experience for you. We look forward to an interesting debate.

Welcome to the 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems 2014 in Bangkok.

With best wishes,

**Prof. Dr. Ngoc Thanh Nguyen**  
Wroclaw University of Technology, Poland

**Assoc. Prof. Dr. Suphamit Chittayasothorn**  
King Mongkut's Institute of Technology Ladkrabang, Thailand

## **Welcome Message from PROGRAM CHAIRS**

It is our pleasure to present you the 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems 2014 (ACIIDS 2014) in Bangkok, the capital city of Thailand. Bangkok is very famous for its diversity and numerous points of interests, and offers a unique setting for the conference.

The 2014 edition of the ACIIDS conference is co-organized by King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand and Wroclaw University of Technology (WUT), Poland, in co-operation with IEEE SMC Technical Committee on Computational Collective Intelligence, Hue University (Vietnam), University of Information Technology UIT-HCM (Vietnam), and Quang Binh University (Vietnam).

ACIIDS 2014 technical program includes many exciting oral and poster presentations as well as four distinguished keynote talks from Prof. Klaus-Robert Müller (Germany), Prof. Leszek Rutkowski (Poland), Prof. Vilas Wuwongse (Thailand), and Prof. Kang-Hyun Jo (Korea).

We received 260 papers from 32 countries from around the world. Each paper was peer reviewed by at least two members of the International Program Committee. Only 124 papers with the highest quality were selected for oral presentation and publication in the two volumes of Springer's LNCS/LNAI series (Vol. 8397, 8398). Due to high quality 35 additional papers were accepted for poster presentations and were published in the form of chapters of the scientific monograph issued in Studies in Computational Intelligence (vol. 551) by Springer Verlag.

The conference will take two and a half days. It was divided into nine following thematic sessions: Intelligent information retrieval (RET), Intelligent database systems (DBS), Semantic web (SEM), Social networks and recommendation systems (REC), Decision support systems (DEC), Natural language and text processing (TXT), Machine learning and data mining (MIN), Computer vision techniques (VIS), and Intelligent Systems (IS).

Moreover, eight following special sessions will be held: Multiple model approach to machine learning (MMAML), Computational intelligence (CI), Engineering knowledge and semantic systems (IWEKSS), Innovations in intelligent computation and applications (IICA), Modelling and optimization techniques (MOT), Innovation via collective intelligences and globalization in business management (ICIGBM), Intelligent supply chains (ISC), and Human motion (HM).

We would like to express our sincere thanks to the honorary chairs, Prof. Tawil Paungma (Former President of King Mongkut's Institute of Technology Ladkrabang, Thailand), Prof. Tadeusz Więckowski (Rector of Wrocław University of Technology, Poland), and Prof. Andrzej Kasprzak, Vice-Rector of Wrocław University of Technology, Poland, for their support.

Our special thanks go to the members of the International Program Committee for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference. We cordially thank the organizers and chairs of special sessions who essentially contributed to the success of the conference. We would also like to express our thanks to the keynote speakers for preparing talks of world-class standard.

We cordially thank our main sponsors, King Mongkut's Institute of Technology Ladkrabang (Thailand), Wrocław University of Technology (Poland), IEEE SMC Technical Committee on Computational Collective Intelligence, Hue University (Vietnam), University of Information Technology UIT-HCM (Vietnam), and Quang Binh University (Vietnam) as well as Oracle and SAP corporations. Our special thanks are also due to Springer for publishing the proceedings, and to the other sponsors for their kind support.

We wish to thank the members of the Organizing Committee for their very substantial work and the members of the local Organizing Committee for their excellent work.

We cordially thank all the authors for their valuable contributions and all the other participants of ACIDS 2014. The conference would not have been possible without them.

Kind regards,

**Dr. Bogdan Trawiński**

Wrocław University of Technology, Poland

**Dr. Kulwadee Somboonviwat**

King Mongkut's Institute of Technology Ladkrabang, Thailand



## KEYNOTES

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### Keynote 1:

#### A Machine Learning Approach to Big Data

**Professor Klaus-Robert Müller**

(TU Berlin, Germany, and Korea University, South Korea)

Machine Learning has been instrumental in analysing data, both: large scale 'big' data and also for the analysis of 'small' data. This talk will discuss the scaling challenges for kernel methods and deep neural network approaches. If time permits, I will discuss applications in the neurosciences (in particular brain computer interfacing) physics and social media.



**Professor Klaus-Robert Müller** has been Professor for Computer Science at TU Berlin since 2006; at the same time he is directing the Bernstein Focus on Neurotechnology Berlin. Since 2012 he is distinguished professor at Korea University within the WCU Program. He studied physics in Karlsruhe from 1984-89 and obtained his PhD in Computer Science at TU Karlsruhe in 1992. After a PostDoc at GMD-FIRST, Berlin, he was a Research Fellow at University of Tokyo from 1994-1995. From 1995 he

built up the Intelligent Data Analysis (IDA) group at GMD-FIRST (later Fraunhofer FIRST) and directed it until 2008. 1999-2006 he was a Professor at University of Potsdam. In 1999, he was awarded the Olympus Prize by the German Pattern Recognition Society, DAGM and in 2006 he received the SEL Alcatel Communication Award. He is an author of more than 300 peer reviewed papers and has edited several books and special issue. In 2012 he was elected to be a member of the German National Academy of Sciences – Leopoldina. His research interests are intelligent data analysis, machine learning, big data, signal processing and Brain Computer Interfaces. Recently he has expanded his interests towards the application of Machine Learning techniques in quantum physics and material sciences.

## Keynote 2:

### Data Stream Mining – Problems and Algorithms

Professor Leszek Rutkowski (Czestochowa University of Technology, Poland)

Data stream mining became recently a very challenging task in the data mining community. Unlike the static dataset, data stream is of infinite size. Data elements arrive to the system continuously, often with very high rates. Moreover, the concept of data can evolve in time, what is known as the concept drift. For these reasons, commonly known data mining algorithms cannot be directly applied to the data streams. In this presentation we focus on classification problems for data stream. A review of available techniques is presented and new algorithms, published in [1] and [2], are described in details.

#### Reference:

- [1] <http://www.computer.org/csdl/trans/tk/2014/01/ttk2014010108-abs.html>
- [2] <http://www.computer.org/csdl/trans/tk/2013/06/ttk2013061272-abs.html>



**Professor Leszek Rutkowski** received the MSc and PhD degrees from the Technical University of Wroclaw, Poland, in 1977 and 1980, respectively. Since 1980, he has been with the Technical University of Czestochowa, where he is currently a professor and chairman of the Institute of Computational Intelligence. From 1987 to 1990, he held a visiting position at the School of Electrical and Computer Engineering, Oklahoma State University. His research interests include data stream mining, big data analysis, neural networks, fuzzy systems, computational intelligence, pattern classification, and expert systems. He has published more than 200 technical papers, including 22 in various series of IEEE Transactions. He is the author of the following books: Computational Intelligence (Springer, 2008), New Soft Computing Techniques for System Modeling, Pattern Classification and Image Processing (Springer, 2004), Flexible Neuro-Fuzzy Systems (Kluwer Academic, 2004), Methods and Techniques of Artificial Intelligence (2005, in Polish), Adaptive Filters and Adaptive Signal Processing (1994, in Polish), and coauthor of two others (1997 and 2000, in Polish) Neural Networks, Genetic Algorithms and Fuzzy Systems and Neural Networks for Image Compression. He is the president and founder of the Polish Neural Networks Society. He was an associate editor of the IEEE Transactions on Neural Networks (1998-2005) and IEEE Systems Journal (2007-2010). He is an editor-in-chief of the Journal of Artificial Intelligence and Soft Computing Research, and he is on the editorial board of the International Journal of Applied Mathematics and Computer Science (1996-present) and the International Journal of Biometric (2008-present). He is a recipient of the IEEE Transactions on Neural Networks 2005 Outstanding Paper Award. He served in the IEEE Computational Intelligence Society as the chair of the Distinguished Lecturer Program (2008-2009) and the chair of the Standards Committee (2006-2007). He is the founding chair of the Polish chapter of the IEEE Computational Intelligence Society, which won the 2008 Outstanding Chapter Award. In 2004, he was elected as a member of the Polish Academy of Sciences. In 2004, he was awarded by the IEEE Fellow Membership Grade for contributions to neurocomputing and flexible fuzzy systems.

### **Keynote 3:**

## **Linked Open Education Resources**

**Professor Vilas Wuwongse (Asian University, Thailand)**

According to UNESCO, Open Educational Resources (OER) are teaching, learning and research materials in any medium, digital or otherwise, that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions. OER have been recognized as an important means to improve the quality of education as well as the equality in the access to quality education. The amount and forms of OER have increased remarkably in the past few years. OER are stored and managed by various organizations and in different locations making their search and access difficult. Moreover, OER from more than one source are normally integrated or bundled to create new OER and use. Therefore, the identity and connection of OER play a crucial role in the efficient access and utilization of OER. In this talk I will demonstrate how Linked Data, a Semantic Web technique, could be used to identify link OER so that they can be fully utilized. Linked Data is a best practice to publish data on the web so that it is readily shared, exchanged and reused. Linked Data employs widely accepted, open standards; hence its implementation is not costly.



**Professor Vilas Wuwongse** obtained his B.Eng and M.Eng in Control Engineering in 1977 and 1979, respectively, and D.Eng in Systems Science in 1982, all from Tokyo Institute of Technology. He was a faculty member at the Asian Institute of Technology (AIT) from 1982 to 2012 during which he also served as a Division Chairman, the Director of AIT Center in Vietnam and a Vice President. After serving shortly as a professor at the Faculty of Engineering, Thammasat University, he has helped the Crown Property Bureau Equity in its educational projects. He will become the President of Asian University from 1 May 2014. Dr. Wuwongse has chaired or co-chaired a number of international conferences and is serving as an editorial board member of international and national academic journals. His current research interests include semantic web, linked data, metadata, e-Learning, e-Research and research management.

## **Keynote 4:**

### **Computer Vision for the Real Application in the near Future**

**Prof. Kang-Hyun Jo (University of Ulsan, Korea)**

In the talk, I will show that how computer vision (CV) in near future will be used for real application. Computer vision has been investigated into mainly two tracks in real implementation for a few decades. The first one is the track where or what it can be used as an application target. Typically it was under development by investigation for its usability as in the case of intelligent transportation system (ITS). Still, it is a big challenge of real implementation into the near society succeeding to accomplished road tests in many developed countries. The second one is mainly how to implement the various methods of CV to combine them in realtime as a processing level. Even though there were so many methods have been developed in a well-defined domain as a special case study for a long time, it would be challenges how they are admissible enough for real implementation. This has been a long time project for the scientist and engineers so that the new horizon is ready to open up to realtime implementation.

As a summary, the most impactful characteristics of CV is being used by its visual information which delivers 2D or 3D to make the information useful to acquire the ambient intelligence from each or sequential image. This information is of course a kind of sensor information, however, which evolves for wide areas of the application as we human being use the visual information in our daily life. Thus, CV encompasses wide areas of applications and challenges as well even though researchers had found for a long time. This trend will go continuously even though many types of trials had been done by the anonymous researcher had worked in a superimposed fashion.

In this talk, a few case studies of real ITS or vehicle application and realtime implementation using CV technology will be addressed. This will be required for further study which may be on the right corner to be implemented in a wide area application as well as at a sudden happening in the near future.



Prof. Jo, Kang-Hyun, Ph.D., had graduated and obtained the BS from Busan National University and both MS and Ph.D from Osaka University, in 1989, 1993, 1997, respectively. After experienced in ETRI (Electro-Telecommunication Research Center), in Korea as a Post-Doc. Research Fellow. Since 1998, he has been with University of Ulsan, Korea as a full time faculty member, now as a Professor while in charging of Intelligent Systems Lab. He has served as the vice dean of e-Vehicle Graduate Institute during 2007-2009 and continuously the vice dean of College of Engineering during 2009-2011. He also had been stayed in Kyushu University and KIST(Korea Institute of Science and Technology) during 2005 to 2006, Oregon State University during 2007 summer and UC Riverside during 2013 to 2014 as a visiting scholar. He has been served as a director of many societies: ICROS(Institute of Control, Robotics and Systems), KMMS(Korean Multimedia Society), SICE(Society of Instrumentation and Control Engineers, Japan), as well as IEEE IES TC-HF(Human Factors Technical Committee) Chair. He is currently contributing himself as an (associate or guest) editor for a few renowned international journals, such as IJCAS(International Journal of Control, Automation and Systems), TCCI(Transactions on Computational Collective Intelligence), and IEEE IES TII(Trans. on Industrial Informatics), etc. Now he has been made a variety of contributions for managing and organizing conferences, workshops and other academic gatherings as many roles as publication, local arrangement or holding chairs with the variety of international conferences: ICIC(International Conference on Intelligent Computing), ICCAS(International Conference on Control, Automation and Systems), and FCV(International Workshops on Frontiers of Computer Vision), HSI(International Workshops on Human System Interactions) and ICCCI(International Conference on Computational Collective Intelligence) as a steering member. Currently, he is working as a member or director of many societies such as KROS, ICROS, KMMS, SICE and IEEE to name a few. Until now, he had published more than hundred technical papers after peer reviews.

# CONFERENCE ORGANIZATION

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Thanh Binh Nguyen	International Institute for Applied Systems Analysis, Austria
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Manuel Nunez	Universidad Complutense de Madrid, Spain
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Shingo Otsuka	Kanagawa Institute of Technology, Japan
Jeng-Shyang Pan	National Kaohsiung University of Applied Sciences, Taiwan
Tadeusz Pankowski	Poznan University of Technology, Poland
Marcin Paprzycki	Systems Research Institute of Polish Academy of Science, Poland
Jakub Peksinski	West Pomeranian University of Technology, Poland
Niels Pinkwart	Humboldt University of Berlin, Germany
Grzegorz Popek	Wrocław University of Technology, Poland
Elvira Popescu	University of Craiova, Romania
Piotr Porwik	University of Silesia, Poland
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Bogdan Trawinski	Wroclaw University of Technology, Poland
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Aleksander Zgrzywa	Wroclaw University of Technology, Poland
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Rui Zhang	Wuhan University of Technology, China
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## CONFERENCE VENUE

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The venue of the ACIIDS 2014 is "Grande Centre Point Hotel Terminal 21".



### Directions

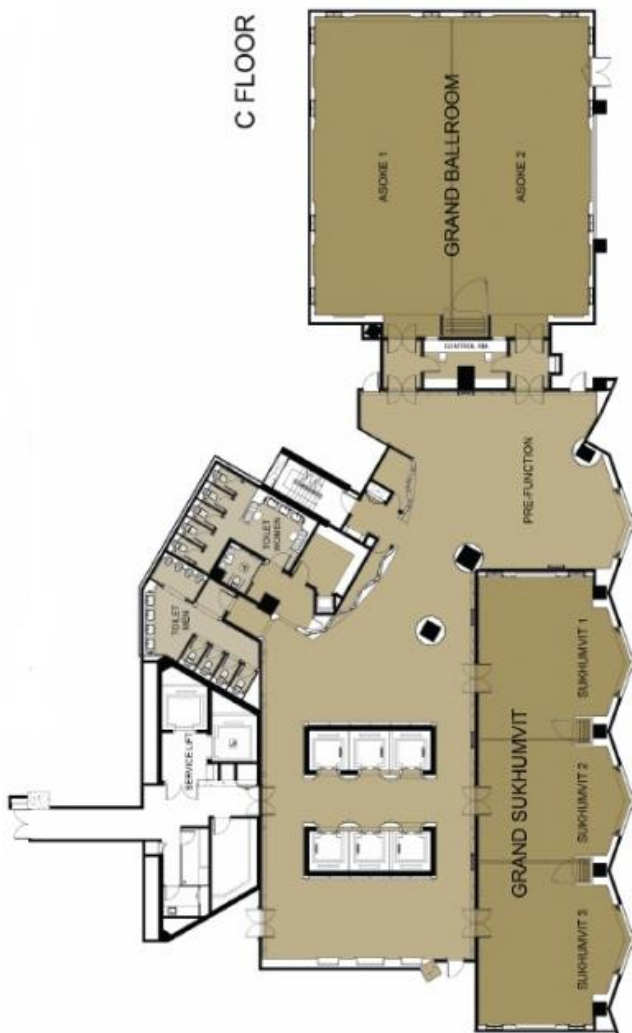
The hotel is conveniently located in the center of Bangkok, next to two train stations

- **Asok station** on the elevated **BTS Sukhumvit line**
- **Sukhumvit station** on the underground **MRT line**

### Contact Information

- Grande Centre Point Hotel Terminal 21  
2,88 Sukhumvit Soi 19 (Wattana), Sukhumvit Rd.,  
Klongtoey Nua, Wattana, Bangkok 10110  
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## Floor Plan



## PROGRAM AT A GLANCE

Day 1. Monday, 7 April 2014				
08:00 – 09:00	Registration Location: Foyers			
09:00 – 09:30	Opening Session Chair: Dr. Suphamit Chittayasothorn, Thailand Location: Grand Ballroom			
09:30 – 10:30	Keynote Lecture 1 Speaker: <b>Professor Klaus-Robert Müller, Germany</b> Topic: <b>A Machine Learning Approach to Big Data</b> Chair: Dr. Kulwadee Somboonviwat, Thailand Location: Grand Ballroom			
10:30 – 11:00	Coffee break Location: Foyers			
11:00 – 12:00	Keynote Lecture 2 Speaker: <b>Professor Leszek Rutkowski, Poland</b> Topic: <b>Data Stream Mining – Problems and Algorithms</b> Chair: Prof. Ngoc Thanh Nguyen, Poland Location: Grand Ballroom			
12:00 – 13:00	Industrial Session 1 Presentations given by SAP and Oracle Chair: Dr. Suphamit Chittayasothorn, Thailand Location: Grand Ballroom			
13:00 – 14:30	Lunch Location: "Blue Spice" restaurant			
Parallel Sessions 1				
14:30 – 15:30	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	RET-1 Intelligent Information Retrieval-1 Chair: Dr. Pruet Boonma, Thailand	DBS-1 Intelligent Database Systems-1 Chair: Prof. Mong-Fong Horng, Taiwan	SEM-1 Semantic Web-1 Chair: Prof. Jason Jung, Korea	REC-1 Recommender Systems-1 Chair: Dr. Hazra Imran, Canada
15:30 – 16:00	Coffee break Location: Foyers			
Parallel Sessions 2				
16:00 – 17:00	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	RET-2 Intelligent Information Retrieval-2 Chair: Prof. Marzena Kryszkiewicz, Poland	DEC-1 Decision Support Systems-2 Chair: Prof. Jerzy Swiatek, Poland	TXT-1 Natural Language and Text Processing-1 Chair: Prof. Geun-Sik Jo, Korea	REC-2 Recommender Systems-2 Chair: Prof. Janusz Sobecki, Poland
17:00 – 18:00	Welcome reception Location: "Grand Park" on the F floor			



Day 2. Tuesday, 8 April 2014				
Parallel Sessions 3				
08:00 – 09:20	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	RET-3 Intelligent Information Retrieval-3 Chair: Prof. Rey-Long Liu, Taiwan	MIN-1 Machine Learning and Data Mining-1 Chair: Prof. Fulufhelo V. Nelwamondo, South Africa	MMAML-1 Multiple Model Approach to Machine Learning-1 Chair: Dr. Bogdan Trawinski, Poland	VIS-1 Computer Vision Techniques-1 Chair: Prof. Kang-Hyun Jo, Korea
Parallel Sessions 4				
09:20– 10:40	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	DEC-2 Decision Support Systems-1 Chair: Prof. Frantisek Capkovic, Slovakia	MIN-2 Machine Learning and Data Mining-2 Chair: Prof. Przemyslaw Kazienko, Poland	MMAML-2 Multiple Model Approach to Machine Learning-2 Chair: Prof. Michal Wozniak, Poland	IICA-1 Innovations in Intelligent Computation and Applications-1 Chair: Prof. Shyi-Ming Chen, Taiwan
10:40 – 11:00	Coffee break Location: Foyers			
11:00 – 12:00	Keynote Lecture 3 Speaker: <b>Professor Vilas Wuwongse, Thailand</b> Topic: <b>Linked Open Education Resources</b> Chair: Prof. Piotr Jedrzejowicz, Poland Location: Grand Ballroom			
12:00 – 12:30	Poster Session 1 Chairs: Prof. Janusz Sobecki, Poland and Dr. Veera Boonjing, Thailand Location: Foyers			
12:30 – 14:00	Lunch Location: "Blue Spice" restaurant			
14:00 – 14:30	Poster Session 2 Chairs: Prof. Janusz Sobecki, Poland and Dr. Veera Boonjing, Thailand Location: Foyers			
14:30 – 15:30	Keynote Lecture 4 Speaker: <b>Professor Kang-Hyun Jo, Korea</b> Topic: <b>Computer Vision for the Real Application in the near Future</b> Chair: Prof. Tzung-Pei Hong, Taiwan Location: Grand Ballroom			
15:30 – 16:00	Coffee break Location: Foyers			
Parallel Sessions 5				
16:00 – 17:00	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	DEC-3 Decision Support Systems-3 Chair: Prof. Andrzej Swierniak, Poland	SEM-2 Semantic Web-2 Chair: Prof. Huu Hanh Hoang, Vietnam	VIS-2 Computer Vision Techniques-2 Chair: Prof. Boguslaw Cyganek, Poland	IICA-2 Innovations in Intelligent Computation and Applications-2 Chair: Prof. Shou-Hsiung Cheng, Taiwan

Parallel Sessions 6				
17:00 – 18:00	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	DBS-2 Intelligent Database Systems-2 Chair: Prof. Zbigniew Huzar, Poland	TXT-2 Natural Language and Text Processing-2 Chair: Prof. Ali Selamat, Malaysia	VIS-3 Computer Vision Techniques-3 Chair: Dr. Kazimierz Choros, Poland	IICA-3 Innovations in Intelligent Computation and Applications-3 Chair: Prof. An-Zen Shih, Taiwan
19:00 – 22:00	Banquet Dinner Location: Grand Ballroom			

Day 3. Wednesday, 9 April 2014				
Parallel Sessions 7				
08:00 – 09:20	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	CI-1 Computational Intelligence-1 Chair: Prof. Ireneusz Czarnowski, Poland	ICIGBM Innovation via Collective Intelligences and Globalization in Business Management Chair: Prof. Pen-Choung Sun, Taiwan	IWEKSS Engineering Knowledge and Semantic Systems Chairs: Prof. Jason J. Jung, Korea and Dr. Dariusz Krol, UK	HM-1 Human Motion-1 Chairs: Prof. Konrad Wojciechowski, Dr. Marek Kulbacki, Poland
Parallel Sessions 8				
09:20– 10:40	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	CI-2 Computational Intelligence-2. Chair: Prof. Urszula Boryczka, Poland	ISC Intelligent Supply Chains Chairs: Dr. Arkadiusz Kawa, Poland	MOT Modelling and Optimization Techniques Chairs: Prof. Tao Pham Dinh, Prof. Hoai An Le Thi, France	HM-2 Human Motion-2 Chairs: Dr. Marek Kulbacki, Dr. Jakub Segen, Poland
10:40 – 11:00	Coffee break Location: Foyers			
Parallel Sessions 9				
11:00 – 12:00	Grand Ballroom	Sukhumvit 1	Sukhumvit 2	Sukhumvit 3
	IS-1 Intelligent Systems-1 Chair: Dr. Dariusz Barbucha, Poland	IS-2 Intelligent Systems-2 Chair: Dr. Marcin Maleszka, Poland	IS-3 Intelligent Systems-3 Chair: Dr. Adrianna Kozierekiewicz-Hetmanska, Poland	HM-3 Human Motion-3 Chairs: Prof. Andrzej Przybyszewski, Dr. Jakub Segen, Poland
12:00 – 13:00	Closing Session Chair: Dr. Suphamit Chittayasothon, Thailand Location: Grand Ballroom			
12:30 – 14:00	Lunch Location: "Blue Spice" restaurant			

## PROGRAM DETAILS

### Day 1. Monday, 7 April 2014

Day 1. Monday, 7 April 2014	
Parallel Sessions 1	
14:30 – 15:30 Mon 7 Apr 2014	<p><b>RET-1: Intelligent Information Retrieval-1</b>  <b>Chair: Dr. Pruet Boonma, Thailand</b>            Location: Grand Ballroom</p>
	<p>Auto-Tagging Articles using Latent Semantic Indexing and Ontology  <i>Rittipol Rattanapanich and Gridaphat Sriharee</i></p> <p>Using Non-Zero Dimensions and Lengths of Vectors for the Tanimoto Similarity Search among Real Valued Vectors  <i>Marzena Kryszkiewicz</i></p> <p>Improving Health Question Classification by Word Location Weights  <i>Rey-Long Liu</i></p>
14:30 – 15:30 Mon 7 Apr 2014	<p><b>DBS-1: Intelligent Database Systems-1</b>  <b>Chair: Prof. Mong-Fong Horng, Taiwan</b>            Location: Sukhumvit 1</p>
	<p>Problems of SUMO-like ontology usage in domain modelling  <i>Bogumila Hnatkowska, Zbigniew Huzar, Iwona Dubielewicz, Lech Tuzinkiewicz</i></p> <p>DPI: Dual Private Indexes for Outsourced Databases  <i>Yi Tang, Fang Liu and Liqing Huang</i></p> <p>Anomaly SQL SELECT-Statement Detection using Entropy Analysis  <i>Akkradach W. and Thanunchai Threepak</i></p>
14:30 – 15:30 Mon 7 Apr 2014	<p><b>SEM-1: Semantic Web-1</b>  <b>Chair: Prof. Jason Jung, Korea</b>            Location: Sukhumvit 2</p>
	<p>Equivalent Transformation in an Extended Space for Solving Query-Answering Problems  <i>Kiyoshi Akama and Ekawit Nantajeewarawat</i></p> <p>Knowledge Generalization During Hierarchical Structures Integration  <i>Marcin Maleszka</i></p> <p>Linked Data Mashups: A Review on Technologies, Applications and Challenges  <i>Tuan Nhat Tran, Duy Khanh Truong, Hanh Huu Hoang and Thanh Manh Le</i></p>

14:30 – 15:30 Mon 7 Apr 2014	<b>REC-1: Recommender Systems-1</b> <b>Chair: Dr. Hazra Imran, Canada</b> Location: Sukhumvit 3
	Design and Implementation of an Adaptive Tourist Recommendation System <i>Leila Etaati and David Sundaram</i>
	Automated Interestingness Measure Selection for Exhibition Recommender Systems <i>Kok Keong Bong, Matthias Joest, Christoph Quix and Toni Anwar</i>
	Application of Network Analysis in Website Usability Verification <i>Piotr Chynal, Janusz Sobecki and Jerzy Szymanski</i>

<b>Day 1. Monday, 7 April 2014</b>	
<b>Parallel Sessions 2</b>	
16:00 – 17:00 Mon 7 Apr 2014	<b>RET-2: Intelligent Information Retrieval-2</b> <b>Chair: Prof. Marzena Kryszkiewicz, Poland</b> Location: Grand Ballroom
	Entity Recognition in Information Extraction <i>Novita Hanafiah and Christoph Quix</i>
	New Method for Extracting Keyword for the Social Actor <i>Mahyuddin K. M. Nasution</i>
	Evaluating Profile Convergence in Document Retrieval Systems <i>Bernadetta Maleszka and Ngoc Thanh Nguyen</i>

16:00 – 17:00 Mon 7 Apr 2014	<b>DEC-1: Decision Support Systems-2</b> <b>Chair: Prof. Jerzy Swiatek, Poland</b> Location: Sukhumvit 1
	Comparison of Reproduction Schemes in SEGT Model of Bystander Effect <i>Andrzej Swierniak and Michal Krzeslak</i>
	Agent-Based Modelling the Evacuation of Endangered Areas <i>Frantisek Capkovic</i>
	Sensitivity Analysis of a priori Power Indices <i>Frantisek Turnovec and Jacek Mercik</i>

16:00 – 17:00 Mon 7 Apr 2014	<p><b>TXT-1: Natural Language and Text Processing-1</b>  <b>Chair: Prof. Geun-Sik Jo, Korea</b>  Location: Sukhumvit 2</p> <p>Text Clustering using Novel Hybrid Algorithm  <i>Divya D Dev and Merlin Jebaruby</i></p> <p>Combination of Multi-views Multi-source Language Classifiers for Cross-lingual Sentiment Classification  <i>Mohammad Sadegh Hajmohammadi, Roliana Ibrahim, Ali Selamat and Alireza Yousefpour</i></p> <p>A New Approach for Mining Top-Rank-K Erasable Itemsets  <i>Bay Vo</i></p>
16:00 – 17:00 Mon 7 Apr 2014	<p><b>REC-2: Recommender Systems-2</b>  <b>Chair: Prof. Janusz Sobecki, Poland</b>  Location: Sukhumvit 3</p> <p>A General Model for Mutual Ranking Systems  <i>Vu Le Anh, Hai Vo Hoang, Kien Le Trung, Hieu Le Trung and Jason J. Jung</i></p> <p>Improving Efficiency of PromoRank Algorithm Using Dimensionality Reduction  <i>Metawat Kavilkrue and Pruet Boonma</i></p> <p>A Framework to Provide Personalization in Learning Management Systems through a Recommender System Approach  <i>Hazra Imran, Quang Hoang, Ting-Wen Chang, Kinshuk and Sabine Graf</i></p>

## Day 2. Tuesday, 8 April 2014

Day 2. Tuesday, 8 April 2014	
Parallel Sessions 3	
08:00 – 09:20 Tue 8 Apr 2014	<p><b>RET-3: Intelligent Information Retrieval-3</b>  <b>Chair: Prof. Rey-Long Liu, Taiwan</b>  <b>Location: Grand Ballroom</b></p> <p>Query Expansion Using Medical Subject Headings Terms in the Biomedical Document  <i>Ornuma Thesprasith and Chuleerat Jaruskulchai</i></p> <p>Author Name Disambiguation by Using Deep Neural Network  <i>Nghiep Tran, Tin Huynh and Tien Do</i></p> <p>Incremental Refinement of Linked Data: Ontology-Based Approach  <i>Yusuke Saito, Boonsita Roengsamut and Kazuhiro Kuwabara</i></p> <p>A Meta-Model Guided Expression Engine  <i>Dominic Girardi, Josef Kung and Michael Giretzlehner</i></p>
08:00 – 09:20 Tue 8 Apr 2014	<p><b>MIN-1: Machine Learning and Data Mining-1</b>  <b>Chair: Prof. Fulufhelo V. Nelwamondo, South Africa</b>  <b>Location: Sukhumvit 1</b></p> <p>Mining Class Association Rules with the Difference of Obidsets  <i>Loan T.T. Nguyen</i></p> <p>Using Multi-Agent Systems Simulations for Stock Market Predictions  <i>Diana Dezsi, Emil Scarlet, Iulia Maries and Ramona-Mihaela Paun</i></p> <p>Building a Trade System by Genetic Algorithm and Technical Analysis for Thai Stock Index  <i>Monruthai Radeerom</i></p> <p>Feature Reduction Using Standard Deviation with Different Subsets Selection in Sentiment Analysis  <i>Alireza Yousefpour, Roliana Ibrahim, Haza Nuzly Abdull Hamed, and Mohammad Sadegh Hajmohammadi</i></p>

08:00 – 09:20 Tue 8 Apr 2014	<b>MMAML-1: Multiple Model Approach to Machine Learning-1</b> <b>Chair: Dr. Bogdan Trawinski, Poland</b> <b>Location: Sukhumvit 2</b>
	Multi-Level Genetic-Fuzzy Mining with a Tuning Mechanism <i>Chun-Hao Chen, Yu Li and Tzung-Pei Hong</i>
	The Influence of a Classifiers' Diversity on the Quality of Weighted Aging Ensemble <i>Michal Wozniak, Piotr Cal and Boguslaw Cyganek</i>
	Vehicle Logo Recognition with an Ensemble of Classifiers <i>Boguslaw Cyganek and Michal Wozniak</i>
	Optimization Algorithms for One-Class Classification Ensemble Pruning <i>Bartosz Krawczyk and Michal Wozniak</i>
08:00 – 09:20 Tue 8 Apr 2014	<b>VIS-1: Computer Vision Techniques-1</b> <b>Chair: Prof. Kang-Hyun Jo, Korea</b> <b>Location: Sukhumvit 3</b>
	A Copy Move Forgery Detection to Overcome Sustained Attacks Using Dyadic Wavelet Transform and SIFT Methods <i>Vijay Anand, Mohammad Hashmi and Dr. Avinash G. Keskar</i>
	Simple and Efficient Method for Automatic Calibration of 2D LRF and Camera <i>Van Dung Hoang, Danilo Caceres Hernandez and Kang-Hyun Jo</i>
	Contextual Labeling 3D Point Clouds with Conditional Random Fields <i>Anh Nguyen</i>
	Multiple Object Tracking Based on A Hierarchical Clustering of Features Approach <i>Supanee Tanathong and Anan Banharnsakun</i>

<b>Day 2. Tuesday, 8 April 2014</b>	
<b>Parallel Sessions 4</b>	
9:20 – 10:40 Tue 8 Apr 2014	<p><b>DEC-2: Decision Support Systems-2</b>  <b>Chair: Prof. Frantisek Capkovic, Slovakia</b>            Location: Grand Ballroom</p> <p>Decisional DNA based framework for representing Virtual Engineering Objects  <i>Syed Imran Shafiq, Cesar Sanin, Edward Szczerbicki and Carlos Toro</i></p> <p>A Data Quality Index with Respect to Case Bases within Case-Based Reasoning  <i>Jurgen Honigl</i></p> <p>Performance Measurement of Higher Education Information System Using IT Balanced Scorecard  <i>Nunik Afriliana and Ford Lumban Gaol</i></p> <p>Agent's Autonomy Adjustment via Situation Awareness  <i>Salama Mostafa, Mohd Sharifuddin Ahmad, Azhana Ahmad, Muthukkaruppan Annamalai, Aida Mustapha and Alicia Y.C. Tang</i></p>
9:20 – 10:40 Tue 8 Apr 2014	<p><b>MIN-2: Machine Learning and Data Mining-2</b>  <b>Chair: Prof. Przemyslaw Kazienko, Poland</b>            Location: Sukhumvit 1</p> <p>Intelligent Fuzzy Control with Multiple Constraints for a Model Car System with Multiplicative Disturbance  <i>Wen-Jer Chang, Po-Hsun Chen and Bo-Jyun Huang</i></p> <p>Exact discovery of length-range motifs  <i>Yasser Mohammad and Toyooki Nishida</i></p> <p>A Support Vector Machine approach to detect financial statement fraud in South Africa: A first look  <i>Stephen Moepya, Fulufhelo V. Nelwamondo and Christiaan Van der Walt</i></p> <p>The Design of Knowledge-based Medical Diagnosis System for Recognition and Classification of Dermatoglyphic Features  <i>Hubert Wojtowicz</i></p>



9:20 – 10:40	<b>MMAML-2: Multiple Model Approach to Machine Learning-2</b> <b>Chair: Prof. Michal Wozniak, Poland</b> Location: Sukhumvit 2
Tue 8 Apr 2014	<p>Comparison of Ensemble Approaches: Mixture of Experts and Adaboost for a Regression Problem <i>Bogdan Trawinski, Tadeusz Lasota and Zbigniew Telec</i></p> <p>Evaluation of Fuzzy System Ensemble Approach to Predict from a Data Stream <i>Bogdan Trawinski, Magdalena Smetek, Tadeusz Lasota and Grzegorz Trawinski</i></p> <p>The AdaBoost Algorithm with the Imprecision Determine the Weights of the Observations Robert Burduk</p> <p>Customer Lifetime Value and Defection Possibility Prediction Model using Machine Learning: An Application on Cloud-based Software Company <i>Niken Prasasti, Masato Okada, Katsutoshi Kanamori and Hayato Ohwada</i></p>

9:20 – 10:40	<b>IICA-1:</b> <b>Innovations in Intelligent Computation and Applications-1</b> <b>Chair: Prof. Shyi-Ming Chen, Taiwan</b> Location: Sukhumvit 3
Tue 8 Apr 2014	<p>A New Method for Autocratic Decision Making Using Group Recommendations Based on Intervals of Linguistic Terms and Likelihood-Based Comparison Relations <i>Shyi-Ming Chen and Bing-Han Tsai</i></p> <p>Applying Fuzzy AHP to Understand the Factors of Cloud Storage Adoption <i>Shiang Lin Lin, Chen Shu Wang and Heng Li Yang</i></p> <p>A Novel Neural-Fuzzy Guidance Law Design by Applying Different Neural Network Optimization Algorithms Alternatively for Each Step <i>Jium-Ming Lin and Cheng-Hung Lin</i></p> <p>Detection of Bus Routes Number in Bus Panel via Learning Approach <i>Chun-Ming Tsai and Zong-Mu Yeh</i></p>

<b>Day 2. Tuesday, 8 April 2014</b>	
<b>Parallel Sessions 5</b>	
16:00 – 17:00 Tue 8 Apr 2014	<p><b>DEC-3: Decision Support Systems-3</b>  <b>Chair: Prof. Andrzej Swierniak, Poland</b>            Location: Grand Ballroom</p>
	<p>Application of Nonlinear State Estimation Methods for Sport Training Support  <i>Krzysztof Brzostowski, Jarosław Drapala and Jerzy Swiatek</i></p> <p>Controlling Quality of Water-Level Data in Thailand  <i>Pattarasai Markpeng, Piraya Wongnimmarn, Nattarat Champreeda, Peerapon Vateekul and Kanoksri Sarinnapakorn</i></p> <p>Ant Colony Optimization Algorithm for Solving the Provider - Modified Traveling Salesman Problem  <i>Krzysztof Baranowski, Leszek Koszalka, Iwona Pozniak-Koszalka and Andrzej Kasprzak</i></p>
16:00 – 17:00 Tue 8 Apr 2014	<p><b>SEM-2: Semantic Web-2</b>  <b>Chair: Prof. Huu Hanh Hoang, Vietnam</b>            Location: Sukhumvit 1</p>
	<p>SPARQL - Compliant Semantic Search Engine with an Intuitive User Interface  <i>Adam Styperek, Michał Ciesielczyk and Andrzej Szwabe</i></p> <p>Finding the Cluster of Actors in Social Network based on the Topic of Messages  <i>Hoa Tran Quang, Hung Vo Ho Tien, Hoang Nguyen Le, Phuc Do and Thanh Ho Trung</i></p> <p>Towards Semantic Web-based Geographic Data Integration  <i>Tamas Matuszka and Attila Kiss</i></p>
16:00 – 17:00 Tue 8 Apr 2014	<p><b>VIS-2: Computer Vision Techniques-2</b>  <b>Chair: Prof. Boguslaw Cyganek, Poland</b>            Location: Sukhumvit 2</p>
	<p>Human Detection from Mobile Omnidirectional Camera Using Ego-Motion Compensated  <i>Joko Hariyono, Van-Dung Hoang and Kang-Hyun Jo</i></p> <p>Categorization of Sports Video Shots and Scenes in TV Sports News Based on Ball Detection  <i>Kazimierz Choros</i></p> <p>Navigation Management for Non-linear Interactive Video in Collaborative Video Annotation  <i>Ivan Ariesthea Supandi, Kee-Sung Lee, Ahmad Nurzid Rosli and Geun-Sik Jo</i></p>

16:00 – 17:00 Tue 8 Apr 2014	<b>IICA-2: Innovations in Intelligent Computation and Applications-2</b> <b>Chair: Prof. Shou-Hsiung Cheng, Taiwan</b> Location: Sukhumvit 3
	Performance of an Energy Efficient Bandwidth Allocation for Wireless Communication Systems <i>Yung-Fa Huang, Che-Hao Li and Ho-Lung Hung</i>
	A Hierarchy Road Model for Shortest Route Discovery in Vehicular Networks <i>Yung-Fa Huang, Jia-Yi Lin and Jyh-Horng Wen</i>
	FFactor Analysis as the Feature Selection Method in an Emotion Norm Database <i>Chih-Hung Wu, Bor-Chen Kuo and Gwo-Hshiung Tzeng</i>

<b>Day 2. Tuesday, 8 April 2014</b>	
<b>Parallel Sessions 6</b>	
17:00 – 18:00 Tue 8 Apr 2014	<b>DBS-2: Intelligent Database Systems-2</b> <b>Chair: Prof. Zbigniew Huzar, Poland</b> Location: Grand Ballroom
	A GA-Based Approach for Resource Consolidation of Virtual Machines in Clouds <i>Mong-Fong Horng</i>
	An Approach of Finding Maximal Submeshes for Task Allocation Algorithms in Mesh Structures <i>Radoslaw Jarecki, Iwona Pozniak-Koszalka and Leszek Koszalka</i>
	Deriving Composite Periodic Patterns from Database Audit Trails <i>Marcin Zimniak, Janusz Getta and Wolfgang Benn</i>

17:00 – 18:00 Tue 8 Apr 2014	<b>TXT-2: Natural Language and Text Processing-2</b> <b>Chair: Prof. Ali Selamat, Malaysia</b> Location: Sukhumvit 1
	Nonterminal complexity of weakly conditional grammars <i>Sherzod Turaev, Mohd Izzuddin Mohd Tamrin and Norsaremah Salleh</i>
	Thai Grapheme-Phoneme Alignment: Many-to-Many Alignment with Discontinuous Patterns <i>Dittaya Wanvarie</i>
	Clustering based Topic Events Detection on Text Stream <i>Chunshan Li, Yunming Ye, Xiaofeng Zhang and Dianhui Chu</i>

17:00 – 18:00 Tue 8 Apr 2014	<b>VIS-3: Computer Vision Techniques-3</b> <b>Chair: Dr. Kazimierz Choros, Poland</b> Location: Sukhumvit 2
	<p>A Coral Mapping and Health Assessment System based on Texture Analysis  <i>Bianca Camille Esmero, Zorina Maika Abad, Maricor Soriano, and Prospero C. Naval</i></p> <p>Iris Image Quality Assessment Based on Quality Parameters  <i>Sisanda Makinana, Tendani Malumedzha and Fulufhelo V. Nelwamondo.</i></p> <p>Methods for Vanishing Point Estimation by Intersection of Curves from Omnidirectional Image  <i>Danilo Caceres Hernandez, Van-Dung Hoang and Kang-Hyun Jo</i></p>
17:00 – 18:00 Tue 8 Apr 2014	<b>IICA-3:</b> <b>Innovations in Intelligent Computation and Applications-3</b> <b>Chair: Prof. An-Zen Shih, Taiwan</b> Location: Sukhumvit 3
	<p>Harmony Search Algorithm Based Nearly Optimal Peak Reduction Tone Set Selection for PAPR Reduction in OFDM System  <i>Ho-Lung Hung and Yung-Fa Huang</i></p> <p>Predicting Stock Returns by Decision Tree Combining Neural Network  <i>Shou-Hsiung Cheng</i></p> <p>Computing Intentions Dynamically in a Changing World by Anticipatory Relevant Reasoning  <i>Jingde Cheng</i></p>

## Day 3. Wednesday, 9 April 2014

Day 3. Wednesday, 9 April 2014	
Parallel Sessions 7	
08:00 – 09:20 Wed 9 Apr 2014	<p><b>CI-1: Computational Intelligence-1</b>  <b>Chair: Prof. Ireneusz Czarnowski, Poland</b>            Location: Grand Ballroom</p>
	<p>Genetic Transformation Techniques in Cryptanalysis  <i>Urszula Boryczka and Kamil Dworak</i></p> <p>On-the-go adaptability in the new Ant Colony Decision Forest approach  <i>Urszula Boryczka and Jan Kozak</i></p> <p>Bootstrapping and Rule-based Model for Recognizing Vietnamese Named Entity  <i>Hieu Le Trung, Vu Le Anh and Kien Le Trung</i></p> <p>A family of the online distance-based classifiers  <i>Joanna Jedrzejowicz and Piotr Jedrzejowicz.</i></p>
08:00 – 09:20 Wed 9 Apr 2014	<p><b>ICIGBM: Innovation via Collective Intelligences and Globalization in Business Management</b>  <b>Chair: Prof. Pen-Choug Sun, Taiwan</b>            Location: Sukhumvit 1</p>
	<p>A Study of Shift Workers for Role Conflict Effect: Quality of Life-Emotional Exhaustion As Mediator  <i>Chuang Yuhshy, Jian-Wei Lin, Chin Jihh-Yu and Lin Ying-Tong</i></p> <p>How the product harm recall effect the customer brand equality and trust to customer perceived value - The Mediating Effect of CSR  <i>Lung Far Hsieh and Pingchuan Lee</i></p> <p>Using Chance Discovery in Recruiting Strategies to Explore Potential Students in Taiwan  <i>Feng-Sueng Yang, Ai-Ling Wang and Ya-Tang Yang</i></p> <p>A Fees System of an Innovative Group-Trading Model on the Internet  <i>Pen-Choug Sun, Rahat Iqbal and Shu-Huei Liu</i></p>

<p>08:00 – 09:20 Wed 9 Apr 2014</p>	<p><b>IWEKSS: Engineering Knowledge and Semantic Systems</b>  <b>Chairs: Prof. Jason J. Jung, Korea and Dr. Dariusz Krol, UK</b>  <b>Location: Sukhumvit 2</b></p>
	<p>On Modelling Social Propagation Phenomenon  <i>Dariusz Krol</i></p> <p>Design of a performance analyzer for electric vehicle taxi systems  <i>Junghoon Lee, Chan Jung Park and Gyung-Leen Park</i></p> <p>Item-based Collaborative Filtering with Attribute Correlation: a Case Study on Movie Genres  <i>Parivash Pirasteh, Jason J. Jung and Dosam Hwang</i></p> <p>Belief Propagation Method for Word Sentiment in WordNet 3.0  <i>Lukasz Augustyniak, Andrzej Misiaszek, Przemyslaw Kazienko, Marcin Kulisiewicz, Wlodzimierz Tuliglowicz, Adrian Popiel and Tomasz Kajdanowicz</i></p>
<p>08:00 – 09:20 Wed 9 Apr 2014</p>	<p><b>HM-1: Human Motion-1</b>  <b>Chairs:</b>  <b>Prof. Konrad Wojciechowski, Dr. Marek Kulbacki, Poland</b>  <b>Location: Sukhumvit 3</b></p>
	<p>Implementation of Quaternion Based Lifting Scheme for Motion Data Editor Software  <i>Agnieszka Szczesna, Mateusz Janiak and Janusz Slupik</i></p> <p>Rough Set Based Classifications of Parkinson's Patients Gaits  <i>Andrzej Przybyszewski, Magdalena Boczarska, Stanislaw Kwiek and Konrad Wojciechowski</i></p> <p>Feature selection of motion capture data in gait identification challenge problem.  <i>Adam Switonski, Henryk Josinski, Agnieszka Michalczuk and Konrad Wojciechowski</i></p> <p>Motion Data Editor software architecture oriented on efficient and general purpose data analysis  <i>Marek Kulbacki, Mateusz Janiak and Wojciech Kniec</i></p>

<b>Day 3. Wednesday, 9 April 2014</b>	
<b>Parallel Sessions 8</b>	
<p>9:20 – 10:40</p> <p>Wed 9 Apr 2014</p>	<p><b>CI-2: Computational Intelligence-2</b>  <b>Chair: Prof. Urszula Boryczka, Poland</b>  <b>Location: Grand Ballroom</b></p>
	<p>Online Learning Based on Prototypes  <i>Ireneusz Czarnowski and Piotr Jedrzejowicz</i></p> <p>Reinforcement Learning Strategy for Solving the Resource-Constrained Project Scheduling Problem by a Team of A-Teams  <i>Piotr Jedrzejowicz and Ewa Ratajczak-Ropel</i></p> <p>A Hybrid Cooperative and Reactive Search Approach for Vehicle Routing Problem with Time Windows  <i>Dariusz Barbucha</i></p> <p>Comparative Study on Bio-inspired Global Optimization Algorithms in Minimal Phase Digital Filters Design  <i>Adam Slowik</i></p>
<p>9:20 – 10:40</p> <p>Wed 9 Apr 2014</p>	<p><b>ISC: Intelligent Supply Chains</b>  <b>Chairs: Dr. Arkadiusz Kawa, Poland</b>  <b>Location: Sukhumvit 1</b></p>
	<p>Improving Military Demand Forecasting using Sequence Rules  <i>Rajesh Thiagarajan, Mustafizur Rahman, Greg Calbert and Don Gossink</i></p> <p>Agent-Based System for Brokering of Logistics Services -- Initial Report  <i>Lucian Luncean, Costin Badica, and Amelia Badica</i></p> <p>Cloud Community in Logistics e-Cluster  <i>Arkadiusz Kawa and Milena Ratajczak-Mrozek</i></p> <p>Model of integrated performance measurement system of intelligent and sustainable supply chains  <i>Blanka Tundys, Andrzej Rzeczycki, Jaroslaw Jankowski and Magdalena Ziolo</i></p>

9:20 – 10:40	<b>MOT: Modelling and Optimization Techniques</b>
Wed 9 Apr 2014	<b>Chairs: Prof. Tao Pham Dinh, Prof. Hoai An Le Thi, France</b> Location: Sukhumvit 2
	<p>DC Programming and DCA for portfolio optimization with linear and fixed transaction costs <i>Tao Pham Dinh, Viet Nga Pham and Hoai An Le Thi</i></p> <p>A Filter Based Feature Selection Approach in MSVM using DCA and its application in Network Intrusion Detection <i>Hoai An Le Thi, Anh Vu Le, Xuan Thanh Vo and Ahmed Zidna</i></p> <p>One Step Ahead Towards The Rearrangeability Of 4D-Hypercube Interconnection Networks <i>Ibrahima Sakho and Jean-Pierre Jung</i></p> <p>Bi-level sensor planning optimization process with calls to costly sub-processes <i>Frederic Dambreville</i></p>
9:20 – 10:40	<b>HM-2: Human Motion-2</b>
Wed 9 Apr 2014	<b>Chairs: Dr. Marek Kulbacki, Dr. Jakub Segen, Poland</b> Location: Sukhumvit 3
	<p>4GAIT: Synchronized MoCap, Video, GRF and EMG datasets in flexible form to benchmark and management <i>Marek Kulbacki, Jakub Segen and Jerzy Pawel Nowacki</i></p> <p>VMASS: Massive Dataset of Multi-camera Video for Learning, Classification and Recognition of Human Actions <i>Marek Kulbacki, Jakub Segen, Kamil Wereszczynski and Adam Gudys</i></p> <p>New Tools for visualization of human motion trajectory in quaternion representation <i>Damian Peszor, Konrad Wojciechowski, Andrzej Polanski, Jerzy Pawel Nowacki, Aldona Drabik and Dominik Malachowski</i></p> <p>Heuristic Method of Feature Selection for Person Re-identification based on Gait Motion Capture Data <i>Henryk Josinski, Agnieszka Michalczuk, Daniel Kostrzewa, Adam Switonski and Konrad Wojciechowski</i></p>



<b>Day 3. Wednesday, 9 April 2014</b>	
<b>Parallel Sessions 9</b>	
11:00 – 12:00 Wed 9 Apr 2014	<b>IS-1: Intelligent Systems-1</b> <b>Chair: Dr. Dariusz Barbucha, Poland</b> Location: Grand Ballroom
	Implementation of Emotional-Aware Computer Systems Using Typical Input Devices <i>Kaveh Bakhtiyari, Mona Taghavi and Hafizah Husain</i>  Travel Password: A Secure and Memorable Password Scheme <i>Nattawut Phetmak, Wason Liwlompaisan and Pruet Boonma</i>  The Development of a Decision Support Model for the Problem of Berths Allocation in Containers Terminal using a Hybrid of Genetic Algorithm and Simulated Annealing <i>Zeinebou Zoubeir and Abdellatif Benabdelhafid</i>
11:00 – 12:00 Wed 9 Apr 2014	<b>IS-2: Intelligent Systems-2</b> <b>Chair: Dr. Marcin Maleszka, Poland</b> Location: Sukhumvit 1
	Comparison of Stability Models in Incremental Development <i>Alisa Sangpuwong and Pornsiri Muenchaisri</i>  Learning to Simplify Children Stories with Limited Data <i>Tu Thanh Vu, Giang Binh Tran and Son Bao Pham</i>  Non Dominated Sorting Genetic Algorithm for Chance constrained supplier selection model with Volume Discounts <i>Remica Aggarwal and Ainesh Bakshi</i>
11:00 – 12:00 Wed 9 Apr 2014	<b>IS-3: Intelligent Systems-3</b> <b>Chair: Dr. Adrianna Kozierekiewicz-Hetmanska, Poland</b> Location: Sukhumvit 2
	An Item Bank Calibration Method for a Computer Adaptive Test <i>Adrianna Kozierekiewicz-Hetmanska and Rafał Poniatowski</i>  Hybrid Approach to Web Based Systems Usability Evaluation <i>Piotr Chynal</i>  Using Lexical Semantic Relation from pIWordnet and Multi-attribute Structures for User Profile Adaptation <i>Agnieszka Indyka-Piasecka and Piotr Jacewicz</i>

11:00 – 12:00	<b>HM-3: Human Motion-3</b>
Wed 9 Apr 2014	<b>Chairs: Prof. Andrzej Przybyszewski, Dr. Jakub Segen, Poland</b> Location: Sukhumvit 3
	3D Gait Recognition Using Spatio-Temporal Motion Descriptors <i>Tomasz Krzeszowski, Bogdan Kwolek and Agnieszka Michalczuk</i>
	Imaging and evaluating method as part of endoscopical diagnostic approaches <i>Martin Kunes, Ondrej Krejcar and Kamil Kuca</i>
	Artificial neural network based prediction model of the sliding mode control in coordinating two robot manipulators <i>Parvaneh Esmaili and Habibollah Haron</i>

## Poster Sessions

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Day 2. Tuesday, 8 April 2014	
Poster Session 1	
12:00 – 12:30	<b>Chairs: Prof. Janusz Sobecki, Poland and Dr. Veera Boonjing, Thailand</b>
Tue 8 Apr 2014	<b>Location: Foyers</b>
	Towards Intention, Contextual and Social based Recommender System Romain Picot-Clémente, Cécile Bothorel and Philippe Lenca
	Improved Negative Selection Algorithm with Application to Email Spam Detection Ismaila Idris and Ali Selamat
	Random Forest of Oblique Decision Trees for ERP Semi-Automatic Configuration Thanh-Nghi Do, Sorin Moga and Philippe Lenca
	A Novel Conflict Resolution Strategy in Multi-agent Systems: Concept and Model Ghusoon Salim Basheer, Mohd Sharifuddin Ahmad, Alicia Y.C. Tang, Azhana Ahmad, Mohd Zaliman Mohd. Yusoff and Salama A. Mostafa
	Cost-driven Active Learning with Semi-Supervised Cluster Tree for Text Classification Zhaocai Sun, Yunming Ye, Yan Li, Shengchun Deng and Xiaolin Du
	Parameter Estimation of Non-Linear Models using Adjoint Sensitivity Analysis Krzysztof Lakomicz, Krzysztof Fajarewicz

	<p>The Effect of Electronic Word-of-Mouth, Customer Expectations, and Emotions on Intention to Take Low Cost Airlines Chia-Ko Lee, Yi-Chih Lee, Yuh-Shy Chuang and Wei-Li Wu</p> <p>ETOMA: a Multi-Agent Tool for Shop Scheduling Problems S. Bouzidi-Hassini, S. Bourahla, Y. Saboun, F. Benbouzid-Sitayeb and S. Khelifati</p> <p>Forecasting Stock Market Indices Using RVC-SVR Jing-Xuan Huang and Jui-Chung Hung</p> <p>Particle Swarm Optimization Feature Selection for Violent Crime Classification Mohd Syahid Anuar, Ali Selamat and Roselina Sallehuddin</p> <p>A Goal-Based Hybrid Filtering For Low-Rated Users Recommendation Issue Using Neighborhood Personalized Profile Similarities in E-Learning Recommendation Systems M. W. Chughtai, Ali Selamat and Imran Ghani</p> <p>StudyAdvisor: A Context-Aware Recommendation Application in E-Learning Environment Phung Do, Hiep Le, Vu Thanh Nguyen and Tran Nam Dung</p> <p>An Adaptive Fuzzy Decision Matrix Model for Software Requirements Prioritization Philip Achimugu, Ali Selamat, Roliana Ibrahim and Mohd Naz'ri Mahrin</p> <p>An Ontology Design for Recommendation Filling-in for a Crime Scene Investigation Report of the Forensic Science Police Center 4 Thailand Boonyarin Onnoom, Sirapat Chiewchanwattana, Khamron Sunat and Nutcharee Wichienit</p> <p>Inter-Annotator Agreement in Coreference Annotation of Polish Mateusz Kopec and Maciej Ogrodniczuk</p> <p>Revenue Evaluation based on Rough Set Reasoning Khu Phi Nguyen, Sy Tien Bui and Hong Tuyet Tu</p> <p>SPARQL Processing over the Linked Open Data with Automatic Endpoint Detection Gergo Gombos and Attila Kiss</p> <p>Application of Ontology and Rough Set Theory to Information Sharing in Multi-resolution Combat M&amp;S Dariusz Pierzchała</p>
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<b>Day 2. Tuesday, 8 April 2014</b>	
<b>Poster Session 2</b>	
14:00 – 14:30 Tue 8 Apr 2014	<p><b>Chairs: Prof. Janusz Sobecki, Poland and Dr. Veera Boonjing, Thailand</b> <b>Location: Foyers</b></p> <p>Measuring Population-Based Completeness for Single Nucleotide Polymorphism (SNP) Databases Nurul A. Emran, Suzanne Embury and Paolo Missier</p> <p>Analysis on Smartphone related Twitter Reviews by using Opinion Mining Techniques Jeongin Kim, Dongjin Choi, Myunggwon Hwang and Pankoo Kim</p> <p>Evaluation of the Factors that Affect the Mobile Commerce in Egypt and its Impact on Customer Satisfaction Mona Kadry and Olla Elsaadany</p> <p>An agent-based modeling for an enterprise resource planning (ERP) Nadjib Mesbahi, Okba Kazar, Merouane Zoubeydi and Saber Benharzallah</p> <p>Design Requirements of Usability and Aesthetics for e-Learning Purposes Aneta Bartuskova and Ondrej Krejcar</p> <p>Workflow Scheduling on Virtualized Servers Johnatan E. Pecero and Pascal Bouvry</p> <p>Toward a User Interest Ontology to Improve Social Network-Based Recommender System Mohamed Frikha, Mohamed Mhiri and Faiez Gargouri</p> <p>Measurement and Simulation of Pacemaker Supply Management Jan Kubicek and Marek Penhaker</p> <p>Mixed Performance Controller Design of Dynamic Positioning Systems for Ships Cheung-Chieh Ku, Rui-Wen Chen and Min-Ta Li</p> <p>The Approach to Image Classification by Hybrid Linguistic Method An-Zen Shih</p> <p>Measuring the Distance from the Rear Surface of the Cornea Leas M. Augustynek, T. Holinka and L. Kolarcik</p> <p>Agent-Oriented Meta-Model for Modeling and Specifying Transportation Systems: Platoon of Vehicles Mohamed Garoui, Belhassen Mazigh, Bechir El Ayeb and Abderrafiaa Koukam</p>

	<p>A New Technique for Edge Detection of Chromosome G-BAND Images for Segmentation Saiyan Saiyod and Pichet Wayalun</p> <p>System-level Implementation of the Algorithms Used in Content-Based Multimedia Retrieval Pawel Forczmanski, Piotr Dziurzanski and Tomasz Maka</p> <p>Texture Analysis of Carotid Plaque Ultrasound Images Krishnaswamy Sumathi and MaheshVeezhinathan</p> <p>Visualization-Based Tracking System Using Mobile Device Phuoc Vinh Tran, Trung Vinh Tran and Hong Thi Nguyen</p> <p>The Improvement of Video Streaming Security in Communication with Multiple Modes Ciphering for Handheld Devices Yi-Nan Lin and Kuo-Tsang Huang</p>
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