

Programme for KES IDT / IIMSS 2013

Wednesday, June 26 th		
08:30		
09:00		
09:30		
10:00		
10:30		
11:00		
11:30		
12:00		
12:30		
13:00		
13:30		
14:00		
14:30		
15:00	Registration	
15:30		
16:00	Bus Tour	
16:30		
17:00		
17:30		
18:00		
18:30	Welcome Drink	
19:00		
19:30		
20:00	Welcome Reception	
20:30		
21:00		
21:30		
22:00		

Thursday, June 27 th			
Room	Room	Room	Room
Arrabida 5	Arrabida 1	Arrabida 3	Arrabida 4
Conference Opening			
Plenary Keynote Talk Prof. Dimitris Despostis (Room Arrabida 5)			
Coffee Break			
IDT- GenTrack	IMS-IS05	IMS- WS01	IDT-IS02
Lunch			
Plenary Keynote Talk Prof. Tomoko Kojiri (Room Arrabida 5)			
IMS- GenTrack	IDT-IS10	IDT-IS09	IMS-IS06
Coffee Break			
IMS- GenTrack	IDT-IS10	IDT-IS09	IMS-IS06
Conference Dinner			

Friday, June 28 th			
Room	Room	Room	Room
Arrabida 5	Arrabida 1	Arrabida 3	Arrabida 4
Registration			
Plenary Keynote Talk Prof. António Grilo (Room Arrabida 5)			
Coffee Break			
IDT- GenTrack	IMS-IS02	IMS-IS04	IDT-IS03
			IDT-IS11
Lunch			
IDT- GenTrack	IDT-IS12		New Directions
Coffee Break			
	IDT-IS12		New Directions
Closing Ceremony			

Detailed Programme

Thursday, June 27th 2013

27/06 09:30 – 10:30 Arrabida 5

Session: Plenary Keynote Talk

Chair: Robert Howlett

Data Envelopment Analysis and performance measurement: Foundation and latest developments

Prof Dimitris K. Despotis

27/06 11:00 – 13:00 Arrabida 5

Session: IDT General Track

Chair: Rui Neves-Silva

An Extension of the Method for Fuzzy Rules Extraction by Means of Artificial Neural Networks

Jan Górecki, Roman Šperka, Marek Spišák

Advancing collaborative decision making through alternative visualizations and reasoning mechanisms

Spyros Christodoulou, Nikos Karacapilidis, Manolis Tzagarakis

SA-E: Sentiment Analysis for Education

Nabeela Altrabsheh, Mihaela Cocea, Mohamed Medhat Gaber

MobiS - Personalized Mobility Services for energy efficiency and security through advanced Artificial Intelligence techniques

Ruben Costa, Paulo Figueiras, Mitja Jermol, Kostas Kalaboukas, Pedro Maló

27/06 11:00 – 13:00 Arrabida 4

Session IDT-IS02: Decision Making Theory

Chair: Eizo Kinoshita

Super Pairwise Comparison Matrix with the Logarithmic Least-Squares Method

Takao Ohya, Eizo Kinoshita

Decision Making on Strategic Investment: How to Determine the Specification of BTO Products

Yuji Sato

An Analysis of Extended Absolute Measurement method and Dominant Standard Method

Takafumi Mizuno, Eizo Kinoshita

Evaluation Principles between AHP/ANP and Dominant AHP/CCM

Eizo Kinoshita, Takafumi Mizuno, Shin Sugiura

27/06 11:00 – 13:00 Arrabida 3

Session IMS-WS01: Intelligent Data Analysis with Applications in Information Retrieval and Machine Learning

Chair: Dan Burdescu, Marian Cristian Mihăescu

IPsec VPN-Based Security of Web-Based Rich Multimedia Systems

Alexander Uskov

Gamification in Computer Science

Alexander Uskov

Advanced Messaging System for On-Line Educational Environments

Mihai Mocanu, Dumitru Dan Burdescu, Marian Cristian Mihaescu, Paul Stefan Popescu

Fast Information Retrieval using Indexing Techniques

Cosmin Stoica Spahiu, Marius Brezovan, Liana Stanescu

Sensor Network Analytics for Intelligent Facility Management

Dalia Kriksciuniene, Adam Kucera, Tomas Pitner, Virgilijus Sakalauskas

Detecting Natural Disaster Events on Twitter across Languages

Andrea Zielinski

Intelligent data retrieval with hierarchically structured information

Nicolae Constantinescu, Oana Ticleanu and Daniel Ebanca

27/06 11:00 – 13:00 Arrabida 1

Session IMS-IS05: Modeling-based Support in Intelligent Learning Environments

Chair: Tomoko Kojiri, Toyohide Watanabe

A statistical analysis of read-through ratios and the effect of quizzes using digital course materials for the classroom evaluation

Konomu Dobashi

Proposal of a method of problem-posing and a system that assists to manage problems and assist peer evaluation

Shinya Shimada, Hisayoshi Kunimune, Masaaki Niimura

Estimating the Care with which Notes are Written from Online Handwritten Character Data

Motoki Miura, Shun Akase, Takamichi Toda

Utilization of Past Remarks of Similar Speech Pattern as Advice for Collaborative Learning

Tomoko Kojiri, Yuki Hayashi, Shuto Ohata

A New Trial for Constructing A Reliable DSS Utilizing LA and Soft Computing Techniques

Norio Baba

27/06 14:00 – 15:00 Arrabida 5

Session: Plenary Keynote Talk

Chair: Lakhmi Jain

Knowledge-based Approach for Enhancing Collaborative Learning

Prof Tomoko Kojiri

27/06 15:00 – 16:30 Arrabida 5

Session: IIMSS General Track

Chair: George Tsihrintzis

Video Stabilization of Static Scenes Based on Robust Detectors and Fuzzy Logic

Margarita Favorskaya, Vladimir Buryachenko

Architecture and Formats of Digital e-Library Warehouse

Margarita Favorskaya, Mikhail Damov

Multivariate clustering for group language learning in Facebook

Christos Troussas, Jaime Caro, Kurt Espinosa, Maria Virvou

Intelligent Computer Classification of English Writing Errors

Brendan Flanagan, Sachio Hirokawa, Takahiko Suzuki, Chengjiu Yin

27/06 15:00 – 16:30 Arrabida 3

Session IDT-IS09: Quantitative Method of Decision Making in a Changing Financial and Social Environment

Chair: Mieko Tanaka-Yamawaki

Stability of Financial Market: The Introduction to the JAVA Simulation of Agent-Based Model

Roman Šperka, Jan Górecki, Marek Spišák

Randomness as the Security Levels of Investments

Mieko Tanaka-Yamawaki, Yuuta Mikamori, Xin Yang

Finding Good and Considerate Strategies in the Iterated Prisoners Dilemma

Mieko Tanaka-Yamawaki, Ryota Itoi

Mathematical Model of Hit Phenomena as a theory for collective motion of human mind in societies

Akira Ishii, Kouichi Furuta, Hidehiko Koguchi, Tomoaki Oka, Hidehiko Uchiyama

27/06 15:00 – 16:30 Arrabida 1

Session IDT-IS10: Optimization Models and Decision Methods in Logistics and Supply Chain Management

Chair: Xiangpei Hu, Lindu Zhao

Information Sharing Decisions in a Dual-Channel Supply Chain with Demand Disruption

Haiyan Wang, Xiaoling Xu, Zichao Zhang

A study of Principal-agent Relationship for Third-party Reverse Logistics Based on EPR

Xuping Wang, Jun Zhang, Sun Zilai

Large Interoperable Supply Chains: From Cooperation Analysis to Design

Pedro Espadinha da Cruz, Izunildo Cabral, António Grilo

Modeling the forecasting process in supply chain management and advanced planning system

Sijie Li

27/06 15:00 – 16:30 Arrabida 4

Session IMS-IS06: Intelligent Human-computer Interaction

Chair: Kazuhisa Seta

A System for Visualization of the Polish Sign Language Gestures

Hubert Wojtowicz

Human Intervention for Searching Targets Using Mobile Agents in a Multi-Robot Environment

Takushi Nishiyama, Yasushi Kambayashi, Munehiro Takimoto

Analysis of Opinions from Questionnaire Surveys of Farming Candidates using Cross Tabulation System

Hirokawa Sachio, Kiyota Hashimoto, Makoto Okada

Examination of Sensor Positions for Detecting Bicycle Rush Behavior

Hidenobu Goto, Motoki Miura

27/06 17:00 – 18:30 Arrabida 5

Session: IIMSS General Track

Chair: George Tsihrintzis

Intelligent Interactive Multimedia Systems on Layered Ontological Video Contexts in a Folksonomy Driven Environment

Massimiliano Dal Mas, Marco Simini

Cooperative Agents for Ontology Alignment

Ratiba Guebaili Djider, Karima Akli-Astouati, Asma Bellili, Hadjer Lacheheb

Kansei Engineering in Education

Sylvia Encheva

New Structural Measure for the Ontology Alignment

Ratiba Guebaili Djider, Karima Akli Astouati, Narhimène Boustia, Aicha Mokhtari, Farid Nouioua

27/06 17:00 – 18:30 Arrabida 3

Session IDT-IS09: Quantitative Method of Decision Making in a Changing Financial and Social Environment

Chair: Mieko Tanaka-Yamawaki

Complex Principal Component Analysis of Dynamic Correlations in Financial Markets

Yuta Arai, Hiroshi Iyetomi

Comparative Study of Correlations in Financial Markets

Takeo Yoshikawa, Yuta Arai, Hiroshi Iyetomi

Temporal Change of Community Structure in the Japanese Credit Network

Yuki Matsuura, Takashi Iino, Hiroshi Iyetomi

27/06 17:00 – 18:30 Arrabida 1

Session IDT-IS10: Optimization Models and Decision Methods in Logistics and Supply Chain Management

Chair: Xiangpei Hu, Lindu Zhao

A Group-based Order Batching Method for Fruit and Vegetable's Farm-to-door Online Retail in Metropolises of China

Mu Du, Xiangpei Hu

Solving Dynamic Emergency Distribution Scheduling Problems in Practice

Yiping Jiang, Lindu Zhao

Coping with Disruptions in Public Tram Systems: Cases in Germany, China and the United States

Yan Fang, Christian Durach, Jing Hou, Amy Zeng

27/06 17:00 – 18:30 Arrabida 4

Session IMS-IS06: Intelligent Human-computer Interaction

Chair: Kazuhisa Seta

Improvement of Factor Model with Text Information based on Factor Model Construction Process

Ryosuke Saga, Tesuya Fujita, Kodai Kitami, Kazunori Matsumoto

Facilitating Collaborative Learning on a Multitouch Tabletop

Weiqin Chen

Characteristics of Practical Nursing Knowledge from Biological Data - Analyses of EEG in Performing Blood Collection

Yasuko Maekawa, Mako Katagiri, Tuneo Kawano, Yukie Majima

Adaptive Support for Question Generation by Constructing Semantic Open Learning Space

Corentin Jouault, Kazuhisa Seta

Friday, June 28th 2013

28/06 09:30 – 10:30 Arrabida 5

Session: Plenary Keynote Talk

Chair: Rui Neves-Silva

Intelligent Decision Making in the Era of Semantic Web and Big Data

Prof António Grilo

28/06 11:00 – 13:00 Arrabida 5

Session: IDT General Track

Chair: Rui Neves-Silva

eTRIZ a portal for design creativity

Paul Prickett, Ivan Aparicio

A Context-Sensitive Support System for Medical Diagnosis Discovery based on Symptom Matching

Marko Knežević, Vladimir Ivančević, Ivan Luković

Context Sensitive Solution for Collaborative Decision Making on Quality Assurance in Software Development Processes

Oliver Kotte, Stokic Dragan, Aitor Elorriaga, Sebastian Scholze

Context-sensitive decision support for improved sustainability of product lifecycle

Sebastian Scholze, Cristina Grama, Oliver Kotte, Dragan Stokic

Outliers Accommodation in Fuzzy Control Systems over WSN

Fábio Januário, Alberto Cardoso, Paulo Gil, Catarina Lucena, Luís Palma, Amâncio Santos

28/06 11:00 – 12:00 Arrabida 4

Session IDT-IS03: Advances in Computational Intelligence: Theory and Applications

Chair: Bala M. Balachandran

An Agent Based Modelling approach to Digital Business Models: through a literature review of three complementary Research Areas

Aneesh Zutshi, António Grilo, Ricardo Jardim-Gonçalves

Non Classical Techques in Descision Support Systems

Sylvia Encheva, Bala Balachandran

Development of A Decision Support System for Hybrid and Cloud Computing

Bala Balachandran

28/06 12:00 – 13:00 Arrabida 4

Session IDT-IS11: Context sensitive monitoring of energy consumption to support energy savings and emissions trading in industry - Intelligent industrial energy and environmental management systems

Chair: Maria Marques, Neven Duic

Approach for decision support for energy savings and emissions trading based on industrial requirements

Maria Marques, Rui Neves-Silva

Methodology for Aml-based Data Acquisition and Context-aware Processing to enable Decision Support related to Energy Efficiency in Manufacturing Industry

Gunnar Grosse-Hovest, Stefan Faltus, Christian Wolff

Concept of the intelligent energy technology integration to support sustainable development of energy utilities, energy savings and CO2 reduction in the complex environment

Ales Pogornik, Boris Sucic, Ljubisa Urosevic

28/06 11:00 – 13:00 Arrabida 1

Session IMS-IS02: Innovative Information Services for Advanced Knowledge Activity

Chair: Koichi Asakura, Toyohide Watanabe, Yuichiro Tateiwa

Supporting Sum Range Queries on Remote Spatial Databases Using k-Nearest Neighbor Search

Hideki Sato, Ryoichi Narita

Retrieval of Article-pages, Using Geometric Layout Relationships among Document Components

Toyohide Watanabe

A Novel Multi-Stage Blind Signal Detector Suitable for Ad Hoc Network Nodes

Yukihiro Kamiya

Support System for Analyzing Solution Process on Network Construction Exercise with Virtual Machines

Yuichiro Tateiwa, Junya Noumi, Naohisa Takahashi, Daisuke Yamamoto

28/06 11:00 – 13:00 Arrabida 3

Session IMS-IS04: Knowledge Media for Creativity and Science Communication

Chair: Fuminori Akiba

Dynamic Word Clouds: Context-based Word Clouds of Presentation Slides for Quick Browsing

Yuanyuan Wang, Kazutoshi Sumiya

How to see quasi-scientific objects in art museum

Fuminori Akiba

Scientific and technical communication and the Fukushima Daiichi nuclear disaster: The social dimension

Kaori Karasawa, Kazuhisa Todayama

Scientific and technical communication since the Fukushima Daiichi nuclear disaster: How is scientific knowledge disseminated?

Kazuhisa Todayama, Kaori Karasawa

How to share the tactile sense?, a putative approach

Yasuhiro Suzuki

28/06 14:00 – 15:30 Arrabida 5

Session: IDT General Track

Chair: Rui Neves-Silva

Hybrid Approach for Control Loop Performance Assessment

Luis Brito Palma, João Moreira, Paulo Sousa Gil, Fernando Vieira Coito

Child Vehicle Safety Simulation using Regression analysis and Predictive Data Mining

Ritwick Gupta, Robert Kent, Ziad Kobti

Towards Optimal Solutions in a Constantly Changing Environment

Sylvia Encheva

Mining Twitter Data: Discover Quasi-Truss from Bipartite Graph

Hiroshi Sakamoto, Tetsujji Kuboyama, Master Yanting Li

Towards Practical Tabled Abduction Usable in Decision Making

Ari Saptawijaya, Luís Pereira

28/06 14:00 – 15:30 Arrabida 1

Session IDT-IS12: Soft Computing-Based Techniques for Decision Making: State-of-the-Art and Future Trends

Chair: Shing Chiang Tan, Junzo Watada, Chee Peng Lim

A New Portfolio Selection Approach with Technical Pattern-based Fuzzy Birandom Returns

You Li, Bo Wang, Junzo Watada

The measurement of exit strategy impact in fuzzy portfolio-based investment

Bo Wang, You Li, Junzo Watada

Fuzzy portfolio selection based on index tracking and value-at-risk

Qianli Xing, Bo Wang, Junzo Watada

Design and Development of Central Knowledge Repository for Innovation Platforms

Martin Ziarati, Lakhvir Singh, Reza Ziarati

28/06 14:00 – 15:30 Arrabida 4

Session: New Directions in Intelligent Decision Technologies and Intelligent Interactive Multimedia Systems and Services

Chair: Gloria Wren-Phillips

28/06 16:00 – 17:30 Arrabida 1

Session IDT-IS12: Soft Computing-Based Techniques for Decision Making: State-of-the-Art and Future Trends

Chair: Shing Chiang Tan, Junzo Watada, Chee Peng Lim

Solving Imbalance Data Classification Problem by Particle Swarm Optimization Support Vector Machine
Zhenyuan Xu, Mingnan Wu, Junzo Watada, Zuwarie Ibrahim, Marzuki Khalid

A Hybrid RBF-ART Model and Its Application to Medical Data Classification
Shing Chiang Tan, Chee Peng Lim, Junzo Watada

Decomposition of a Term-Document Matrix Representation for Faithful Customer Analysis
Jianxiong Yang, Junzo Watada

28/06 16:00 – 17:30 Arrabida 4

Session: New Directions in Intelligent Decision Technologies and Intelligent Interactive Multimedia Systems and Services

Chair: Gloria Wren-Phillips