

Detailed Programme

**Opening Ceremony
Birt Acres
09:00 – 09:10 24th June**

**Keynote 1: On Control of System of Systems,
Prof. Mo Jamshidi, University of Texas at San Antonio
Birt Acres
09:10 – 10:10 24th June**

**T07A Industrial Informatics Applications I
Birt Acres
10:30-12:10 24th June**

T07A-1 CF-000493
Die Surface Designer System
Joao Ferreira

T07A-2 CF-000957
Mechanical Properties Prediction in High-Precision Foundry Production
Javier Nieves, Igor Santos, Yoseba K. Penya, Sendoa Rojas, Mikel Salazar, Pablo G. Bringas

T07A-3 CF-002623
A Web-based CAD System for Gear Shaper Cutters
Anna Malahova, Jevgenijs Butans, Ashutosh Tiwari

T07A-4 CF-002712
A Networked Integrated Manufacturing System Oriented Product Lifecycle Based on Multi-agent
Tianbiao Yu, Jing Zhou, Junmei Ding, Jianrong Wang, Wanshan Wang

T07A-5 CF-003115
Measuring Technological Forecasting
Ercan Oztemel, Batuhan Ayhan

**T01A Distributed, Embedded and Networked Control I
Ground I
10:30-12:10 24th June**

T01A-1 CF-000531
Considerations for Multicast Scalability of Fieldbus Protocols on IP/Ethernet
Nobuo Okabe, Shouichi Sakane

T01A-2 CF-000655
Research on Network of Remote Real-time Surveillance System based on LabVIEW
Huadong Li, Yufang Zhong, Mingguang Wu

T01A-3 CF-001015
Utilizing Binary XML Representations for Improving the Performance of the IEC
61499 Configuration Interface
Alois Zoitl, Ingo Hegny, Andreas Schimmel

T01A-4 CF-002542
Assessment of multi-bus fault-tolerant communications
Valter Silva, Paulo Bartolomeu, Joaquim Ferreira, José Fonseca

T01A-5 CF-003247
Petri net partitioning using net splitting operation
Aniko Costa, Luis Gomes

**S03A Optimisation techniques I
Ground II
10:30-12:10 24th June**

S03A-1 CF-000507
Optimization Models of Coordination Mechanism in Supply Chain under Symmetric
Information
Yanhuai Lang

S03A-2 CF-001058
Component Sizing for Multi-Source Renewable Energy Systems
James Clark, Bernard Stark

S03A-3 CF-001279
Towards Morphological System Design
Mark Sh. Levin

S03A-4 CF-001287
Configuration of Integrated Security System
Mark Sh. Levin, Andrey V. Leus

S03A-5 CF-003468
Estimating gasoline demand in Iran using different soft computing techniques
*Mohammad Reza Assari, Afshin Ghanbarzadeh, Mohammad Ali Behrang, Ehsanolah
Assareh*

**T13A ICT for Energy Systems I
Second I
10:30-12:10 24th June**

T13A-2 CF-000612
Research on Landscape Lighting Control System Based on DMX512
Huifen Wang, Yong Cai, Mingguang Wu, Yufang Zhong

T13A-3 CF-000809
Adaptive Under Frequency Load Shedding Using PMU
Rasha El azab, El Sayed Shehab Eldien, Mohamed Sallam

T13A-4 CF-001198
Simulation of Web Service Enabled Smart Meters in an Event-based Infrastructure
Stamatis Karnouskos, Anastasia Izmaylova

**T06 Human, Computer and Machine Interfaces
Second II
10:30-12:10 24th June**

T06-1 CF-002941
A new computer interface based on in-solid acoustic source localization
Ming Yang, Duc Truong Pham, Mostafa Al-Kutubi, Ze Ji

T06-2 CF-000027
Hypermedia user-interface integration in distribution power systems SCADA
Antonio Moreno-Munoz, Juan J. G. De la Rosa

T06-3 CF-000922
A DSM Approach for End-User Programming in the Automation Domain
Michael Pfeiffer, Josef Pichler

T06-4 CF-001244
Travel Aids For The Blind - The Digital Ecosystem Solution
David Calder

**T07 Industrial Informatics Applications II
Birt Acres
13:30-15:10 24th June**

T07B-1 CF-000051
Fault-tolerance Properties and Self-healing Abilities Implementation in FPGA-based Embryonic Hardware Systems
Csaba Szasz, Virgil Chindris

T07B-2 CF-000663
Basic Statecharts: A Formalism to Model Industrial Systems
Raimundo Moura, Luiz Guedes

T07B-3 CF-000825
Automating Software Design Pattern Transformation
Martin Wheatman, Kecheng Kiu

T07B-4 CF-001236
Integrating Mobile Devices and Industrial Automation through Web Services
Anderson Cavalcanti, Alessandro Souza, Diego Silva, Givaldo Souza, Francisco Sales

T07B-5 CF-001384
Risk Support Vector Machine for Predicting the Trend of Enterprises Development
Wenliang Hu, Huiwen Wang

T01B Distributed, Embedded and Networked Control II
Ground I
13:30-15:10 24th June

T01B-1 CF-000426
On-Line Task Scheduling for Dual-Core Real-Time Embedded Systems
Ya-Shu Chen, Li-Pin Chang, Chia-Ming Cheng

T01B-2 CF-002453
Dynamic Adaptation Mechanisms in Multimedia Embedded Systems
Marisol Garcia-Valls

T01B-3 CF-002968
End-to-End Flow Control using PI controller for Force Control System over TCP/IP Network
Daisuke Yashiro, Takahiro Yakoh, Kouhei Ohnishi

T01B-4 CF-003107
Embedded Systems with Improved Interprocess Communication Design
Hosein Marzi, Larry Hughes, Yanting Lin

T01B-5 CF-002771
A Case Study on Migration from IEC 61131 PLC to IEC 61499 Function Block Control
Wenbin William Dai, Valeriy Vyatkin

S03B Optimisation techniques II
Ground II
13:30-15:10 24th June

S03B-1 CF-003042
A Derivative-Free Descent Method for the Nonlinear Complementarity Problem
Mohamed Tawhid

S03B-2 CF-002461
A memoryless BFGS neural network training algorithm
Marianna S. Apostolopoulou, Dimitris G. Sotiropoulos, Ioannis E. Livieris,

Panagiotis Pintelas

S03B-3 CF-002593

Solving the Perceptron Problem by deterministic optimization approach based on DC programming and DCA

H.A. Le Thi, M. Le Hoai, T. Pham Dinh, P. Bouvry

S03B-4 CF-003476

Solar radiation forecasting using meteorological data

Afshin Ghanbarzadeh, Amin Reza Noghrehabadi, Ehsanolah Assareh, Mohammad Ali Behrang

T13 ICT for Energy Systems II

Second I

13:30-15:10 24th June

T13B-1 CF-001732

Intelligent Energy Management System

Maurizio Cirrincione, Massimo Cossentino, Salvatore Gaglio, Vincent Hilaire, Abderrafiâa Koukam, Marcello Pucci, Luca Sabatucci, Giancarlo Vitale

T13B-2 CF-002305

Modeling and Control of a Thermal Energy System in a Building Automation Scenario

Luca Ferrarini, Marco Pernice

T13B-3 CF-002321

Strategic Interaction in Gas Storage

Alan Holland

T13B-4 CF-002364

Compositional Model-Driven Design of Embedded Code for Energy-Efficient Buildings

Alie El-Din Mady, Menouer Boubekour, Gregory Provan

T14A Building Automation and Smart Homes I

Second II

13:30-15:10 24th June

T14A-1 CF-003077

Smart House monitoring and actuating system development using automatic code generation

Gustavo Patrício, Luís Gomes

T14A-2 CF-000299

iLOC: a localisation system for visitor tracking & guidance

Stefan Knauth, Christian Jost, Alexander Klapproth

T14A-3 CF-000361
Knowledge-Based Requirement-Engineering of Building Automation Systems by
means of Semantic Web Technologies
Stefan Runde, Alexander Fay, Wagner-Otto Wutzke

T14A-4 CF-000965
Implementing the Design of Smart Home and Achieving Energy Conservation
Chun-Yu Chen

T14A-5 CF-002445
Knowledge Representation for a Neuro-Symbolic Network in Home Care Risk
Identification
Nauman Qadeer, Rosemarie Velik, Gerhard Zucker, Harold Boley

T07C Industrial Informatics Applications III

Birt Acres

15:40 - 17:20 24th June

T07C-1 CF-001791
Mapping a Sequence Diagram to the Related Code: Cognitive Levels Expressed by
Developers
David McMeekin, Brian von Konsky, Elizaabeth Chang, David Cooper

T07C-2 CF-002267
Decision Support System for Petri Nets Enabled Automation Components
*João Pinto, J. Marco Mendes, Paulo Leitão, Armando W. Colombo, Axel Bepperling,
Francisco Restivo*

T07C-3 CF-002658
Study on Project Management System Oriented Collaborative Design
Wanshan Wang, Tianbiao Yu, Jing Zhou, Yang Zhang

T07C-4 CF-002852
Using Executable UML to model Algorithmic Aspects of Visualization Systems
Annerose Braune, Stefan Hennig

T07C-5 CF-003131
Towards a Synchronized Semantic Model to Support Aspects of Building
Management
Michael Dibley, Haijiang Li, John Miles, Yacine Rezgui

T15 Cognitive and Computational Intelligence in Industrial Informatics

Ground I

15:40 - 17:20 24th June

T15-1 CF-000213

Use of Artificial Neural Networks in Different Approaches for Reducing Vibration of Driver's Seat

Zikrija Avdagic, Samim Konjicija, Selma Ruhotina

T15-2 CF-000523

Random Forest-LNS Architecture and Vision

Osman Hassab Elgawi

T15-3 CF-001945

A Dual-Momentum Hybrid Wavelet Neural Net (DM-HWNN): Its Performance Evaluation and Application

Yi Zhi Zhao, Xiang Li

T15-4 CF-002933

Extending Depth-of-field by Image Fusion using Multi-objective Genetic Algorithm

Veysel Aslantas, Rifat Kurban

S03C Optimisation techniques III

Ground II

15:40 - 17:20 24th June

S03C-1 CF-001422

A nearly exact method for solving large-scale TRS

Marianna S. Apostolopoulou, Dimitris G. Sotiropoulos, Charalambos A. Botsaris, Panagiotis Pintelas

S03C-2 CF-001805

A new decentralized approach for the lot sizing problem of durable products with demand substitution

Yongjian Li, Xiaoqiang Cai

S03C-3 CF-001937

Exploring Terminologies and a Case Study to Devise a New Instrument that Optimizes Operational Information Systems Sustainability

Peter Gall

S03C-4 CF-002402

Localised Path Optimisation for Mobile Data Collection in Industrial Sensor Networks

Damjee Ediriweera, Ian Marshall

S03C-5 CF-001414

Evolutionary algorithm for multi-objective Exergoeconomic optimization of Biomass Waste Gasification Combined Heat and Power System

Babak Fakhimghanbarzadeh, Bijan Farhanieh, Hosein Marzi, Ashkan Javadzadegan

T13C ICT for Energy Systems III

Second I

15:40 - 17:20 24th June

T13C-1 CF-002518

Towards the Energy Efficient Future Factory

Stamatis Karnouskos, Armando Walter Colombo, Jose L. Martinez Lastra, Corina Popescu

T13C-2 CF-002569

A Communication System Architecture for Regional Control of Power Distribution Networks

Qiang Yang, Javier Barria, Carlos Hernandez Aramburo

T13C-3 CF-002631

Optimization of Wind Farm Power Generation Using New Unit Matching Technique

Sherief Fouad, Radwan H Abdel-Hamid, Maged A. Abu Adma, Ashraf A. Fahmy

T13C-4 CF-003034

The Energy Web: concepts and challenges to overcome to make large scale Renewable and Distributed Energy Resources a true reality

Tuan Dang

T14 Building Automation and Smart Homes II

Second II

15:40 - 17:20 24th June

T14B-1 CF-001155

Enhanced Control Application Development in Building Automation

Fritz Praus, Wolfgang Granzer, Wolfgang Kastner

T14B-2 CF-001406

Research of Feedback Control of Lighting System Based on DALI

Yufang Zhong, Huadong Li, Mingguang Wu

T14B-3 CF-001767

A Connected Home Platform and Development Framework for Smart Home Control Applications

Nektarios Papadopoulos, Apostolos Meliones, Dimitrios Economou, Ioannis Karras, Ioannis Liverezas

T14B-4 CF-001139

Securing IP Backbones in Building Automation Networks

Wolfgang Granzer, Daniel Lechner, Fritz Praus, Wolfgang Kastner

Keynote 2: On Pervasive Computing (and Innovation)

Dr Andy Stanford-Clark, IBM

Birt Acres

09:00 – 10:00 25th June

S01A Component-based and model-driven design of industrial automation systems I

Birt Acres

10:30 - 12:10 25th June

S01A-1 CF-000418

Proposing a novel IEC61499 Runtime Framework implementing the Cyclic Execution Semantics

Piran Tata, Valeriy Vyatkin

S01A-2 CF-000469

Component-Oriented Architecture for SCADA System

Anh Phan, Chau Truong

S01A-3 CF-001228

Implementation of Agent-based Reconfigurable Embedded Control Systems

Mohamed Khalgui, Olfa Mosbahi, Hans-Michael Hanisch

S01A-4 CF-001295

MDAI: Model based Design in Automobile Industry

João Ferreira

S01A-5 CF-001651

On the Suitability of Modeling Approaches For Engineering Distributed Control Systems

Lorenz Hundt, Arndt Lüder, Stefan Biffel

T10A Sensing and Communication Technologies I

Ground I

10:30 - 12:10 25th June

T10A-1 CF-000248

An Energy-Efficient MAC Protocol with Adaptive Scheduling for Wireless Sensor Networks

Yi Zhi Zhao, Thuy Ngoc Nguyen, Maode Ma, Chunyan Miao

T10A-2 CF-001023

Quality of Connectivity Guarantee of ZigBee based Wireless Mobile Sensor Network

Akihiro Oda, Tomohisa Nakabe, Hiroaki Nishi

T10A-3 CF-002674

Indoor Angle of Arrival Positioning Using Biased Estimation

Bertrand Tay, Wei Liu, Dan Hong Zhang

T10A-4 CF-003352

Research Challenges in Applying Intelligent Wireless Sensors in the Oil, Gas and Resources Industries

Alex Talevski, Simon Carlsen, Stig Petersen

S03D Optimisation techniques IV

Ground II

10:30 - 12:10 25th June

S03D-1 CF-001929

Comparison of Particle Swarm and Simulated Annealing Algorithms for Induction Motor Fault Identification

Salah Ethni, Bashar Zahawi, Damian Giaouris, Paul Acarnley

S03D-2 CF-002151

Optimisation of a Fuzzy Logic Controller for a Flexible Single-Link Robot Arm Using the Bees Algorithm

D.T. Pham, Mete Kalyoncu

S03D-3 CF-003441

Coal demand estimating in Iran based on socio-economic indicators using particle swarm optimisation and genetic algorithm

Mohammad Reza Assari, Afshin Ghanbarzadeh, Ehsanolah Assareh, Mohammad Ali Behrang

S03D-4 CF-003581

Minimum-Time Motion Planning for a Robot Arm Using the Bees Algorithm

M. C. Ang, D.T. Pham, K. W. Ng

S03D-5 CF-000035

Innovative controls and topologies for maximum power in thermo-chemical systems

Stanislaw Sieniutycz

S05A Soft computing I

Second I

10:30 - 12:10 25th June

S05A-1 CF-002429

Images sub-segmentation with the PFCM clustering algorithm

Benjamin Ojeda-Magaña, Joel Quintanilla-Dominguez, Ruben Ruelas, Diego Andina

S05A-2 CF-001716

Combining edge detection algorithms in intensity SAR images

Juan Fombellida, Ignacio Melgar, Juan Seijas

S05A-3 CF-002178

Prevision of Industrial SO2 Pollutant Concentration Applying ANNs
M.G. Cortina-Januchs, J.M. Barrón-Adame, A. Vega-Corona, D. Andina

S05A-4 CF-002577

Comparison of Brans Promethee multicriteria decision method and Promethee modified by authors for the optimization of an erosion control integral plan in chaco area in Salta province (Argentina)

J.B. Grau, J.M. Antón, F. Colombo, L. de los Rios, Jose M. Cisneros, A. Tarquis

S05A-5 CF-002585

Data Fusion and Neural Network Combination Method for Air Pollution Level Monitoring

J.M. Barron-Adame, M.G. Cortina-Januchs, A. Vega-Corona, D. Andina, J.I. Seijas Martinez-Echevarria

T11 Service-Oriented Architecture

Second II

10:30 - 12:10 25th June

T11-1 CF-000388

Modeling on SOA-based Virtual Enterprise Multi-source Heterogeneous Service Integration

Dejun Chen, Zhu Du, Rui Hu, Zude Zhou, C. Ji

T11-2 CF-001112

Reliable Execution of Business Processes on Dynamic Networks of Service-Enabled Devices

Patrik Spiess, Stamatios Karnouskos, Luciana Moreira Sa de Souza, Domnic Savio, Dominique Guinard, Mihai Vlad Trifa, Oliver Baecker, Moritz Koehler

T11-3 CF-001783

Smooth Migration from the Virtual Design to the Real Manufacturing Control

Paulo Leitao, J. Marco Mendes, Armando Colombo

T11-4 CF-002291

Platform and language independent service life cycle management for device centric SOAs

Christian Fabian, Elmar Zeeb, Frank Golatowski, Dirk Timmermann

T11-5 CF-000345

Web Based Communication Between Embedded Systems and an ERP

Pierre-Christophe Mesnil, Cédric Ulmer, Laurent Gomez

S01B Component-based and model-driven design of industrial automation systems II

Birt Acres

13:30 - 15:10 25th June

S01B-1 CF-001678

“Broadcaster”: An architectural description of a prototype supporting real-time remote data propagation in distributed manufacturing

Vishal Barot, Robert Harrison, Stuart McLeod, Andrew West

S01B-2 CF-001694

A Research Roadmap for Model-Driven Design of Embedded Systems for Automation Components

Thomas Strasser, Martijn Rooker, Ingo Hegny, Monika Wenger, Alois Zoitl, Luca Ferrarini, Alessio Dede, Marco Colla

S01B-3 CF-001775

Design and Implementation of Industrial Automation Control Systems: a Survey

Marco Colla, Tiziano Leidi, Mario Semo

S01B-4 CF-001848

Integration of Heterogeneous Engineering Environments for the Automation Systems Lifecycle

Stefan Biffel, Alexander Schatten, Alois Zoitl

S01B-5 CF-001961

Engineering of Communication Links with AADL in IEC 61499 Automation and Control Systems

Roman Froschauer, Andreas Schimmel, Franz Auinger, Alois Zoitl

T10B Sensing and Communication Technologies II Ground I

13:30 - 15:10 25th June

T10B-1 CF-002356

Rewirings Based on the Eigenvectors of the Laplacian Matrix for Enhancing Synchronizability of Dynamical Networks

Mahdi Jalili, Ali Ajdari Rad

T10B-2 CF-002895

Inter-Vehicle Dynamic Data Management and Communication Design

Yong Xu, Xiang-wen Zhang, Ming Pan, Yong-xian Fan

T10B-3 CF-002917

eSOA - Service Oriented Architectures adapted for Embedded Networks

Andreas Scholz, Christian Buckl, Stephan Sommer, Alfons Kemper, Alois Knoll, Jörg Heuer, Anton Schmitt

T10B-4 CF-003409

Wireless Multimedia Sensor Network Technology: A Survey

Atif Sharif, Vidyasagar M. Potdar, Elizabeth Chang

T05A Factory Automation I

Ground II

13:30 - 15:10 25th June

T05A-1 CF-001066

The Analysis of IPv6 Adaptation to The Industrial Network Protocol
Hiroshi Miyata, Kazunori Miyazawa, Yukiyo Akisada, Masahito Endo

T05A-2 CF-001163

Reactive Business Processes for Factory Automation
Domnic Savio, Stamatis Karnouskos, Luciana Moreira Sa de Souza, Vlad Trifa, Dominique Guinard, Patrik Spiess

T05A-3 CF-001252

Realising Secured Data Transmission in KNX
Salvatore Cavalieri, Giovanni Cutuli

T05A-4 CF-001643

Specification of Technical Plant Behavior with a Safety-Oriented Technical Language
Sebastian Preusse, Hans-Michael Hanisch

T05A-5 CF-001988

iDiagnosis & Prognosis for Supporting of Manufacture
Danhong Zhang, Junhong Zhou, Shai Avraham Arogeti, Ming Luo, Bertrand Tay, Xin Jiang

S05B Soft computing II

Second I

13:30 - 15:10 25th June

S05B-1 CF-002607

Feature Extraction using Coordinate Logic Filters and Artificial Neural Networks
Joel Quintanilla Domínguez, Moisés Sánchez García, Mario Gozález Romo, Antonio Vega Corona, Diego Andina de la Fuente

S05B-2 CF-002615

Artificial Metaplasticity MLP applied to Image Classification
Alexis Marcano-Cedeño, Antonio Alvarez-Vellisco, Diego Andina

S05B-3 CF-002801

Finding Method of Business Risk Factors by Using Qualitative and Quantitative Hybrid Simulation
Masanori Akiyoshi

S05B-4 CF-003239

Evolutionary Feature Selection for Artificial Neural Network Pattern Classifiers
D. T. Pham, M. Castellani, A. A. Fahmy

S05B-5 CF-003484

Wind speed prediction based on simple meteorological data using artificial neural

network

Afshin Ghanbarzadeh, Amin Reza Noghrehabadi, Mohammad Ali Behrang, Ehsanolah Assareh

T09A Mechatronics and Robotics I

Second II

13:30 - 15:10 25th June

T09A-1 CF-000329

Reactive and Pre-Planned Encirclement for Whole Arm Grasping

David Devereux, Paul Nutter, Robert Richardson

T09A-2 CF-000671

Industrial Robot Pose Estimation Using Three-Dimensional Registration

Haili Xu, Xingguo Zhang, Guoran Hua, Sun'an Wang

T09A-3 CF-000949

Measuring the Intersection of a Thrown Object with a Vertical Plane

Dennis Barteit, Heinz Frank, Friederich Kupzog, Martin Pongratz

T09A-4 CF-002879

The kinematics problems of 9 DOF cable driven robotic crane.

Michal Baczynski, Janusz Baczynski

T09A-5 CF-003018

Visual Servoing of Robot Manipulators Using Model-based Predictive Control

Corneliu Lazar, Adrian Burlacu

S01C Component-based and model-driven design of industrial automation systems III

Birt Acres

15:40 - 17:20 25th June

S01C-1 CF-001996

Decision-Making Embedded Devices using FIPA-ACL Communication

Pascal Proksch, Clemens Westerkamp, Juergen Wuebbelmann

S01C-2 CF-002283

Domain Specific Views in Model-driven Embedded Systems Design in Industrial Automation

Luca Ferrarini, Alessio Dedè, Patrick Salaün, Tuan Dang, Giuseppe Fogliazza

S01C-3 CF-002534

Model-Driven Diagnostics Generation for Industrial Automation

Marion Behrens, Gregory Provan, Menouer Boubekeur, Alie El-Din Mady

S01C-4 CF-002828

Transformation of IEC 61131-3 to IEC 61499 based on a model driven development

approach

Monika Wenger, Alois Zoitl, Christoph Sünder, Heinrich Steininger

S01C-5 CF-003026

A Two Level Approach to the Design of Software for Cooperating Embedded Systems

Tony Larsson

T12A Supply Chain Management and Logistics I Ground I

15:40 - 17:20 25th June

T12A-1 CF-000833

Re-Designing A Distribution Network in a Supply Chain: A Case Study

Laura Xu Xiao Xia, Roland Lim, Feng Yu Wang

T12A-2 CF-001309

Stability Analysis of Supply Chain System under Shock Load Based on Bessel Function

Wang Xu

T12A-3 CF-001724

Flexibility or Adaptability? Which one is more suitable for Distributed Supply Chain?

Hing Kai Chan

T05B Factory Automation II Ground II

15:40 - 17:20 25th June

T05B-1 CF-002038

An embedded microcontroller-based milling process management system.

Paul Prickett, Roger Grosvenor, Raees Siddiqui

T05B-2 CF-002232

Remote Tuning of Industrial Controllers using CyberOPC Technology

Renato F. Fernandes Jr, Nunzio Torrisi, Dennis Brandão

T05B-3 CF-002437

Analysis of IEC 61131-3 Compliance through PLCopen XML Interface

Elisabet Estévez, Marga Marcos, Edurne Irisarri

T05B-4 CF-002666

Aspect Oriented Design of Real-Time Applications

Naoufel Machta

T05B-5 CF-002925

Model based Documentation of Automation Applications

Elisabet Estevez, Marga Marcos, Isabel Sarachaga, Fabian Lopez, Arantzazu Burgos,

Federico Perez, Dario Orive

S06 System of systems

Second I

15:40 - 17:20 25th June

S06-1 CF-000256

An Efficient Bee Colony Optimization Algorithm for Traveling Salesman Problem using Frequency-based Pruning

Li-Pei Wong, Malcolm Yoke Hean Low, Chin Soon Chong

S06-2 CF-001708

Swarm architectures for Ground-based Air Defense Systems of Systems

Ignacio Melgar, Juan Fombellida, Aleksandar Jevtic, Juan Seijas

S06-3 CF-003549

Enhancing the speed of the Bees Algorithm using Pheromone-based Recruitment

Michael Packianather, Matthieu Landy, Duc Pham

S06-4 CF-003603

On the distributed synchronization of on-line IIM Interdependency Models

Andrea Gasparri, Gabriele Oliva, Stefano Panzieri

S06-5 CF-003638

GPS and Sonar Based Area Mapping and Navigation by Mobile Robots

Anjan K. Ray, Laxmidhar Behera, Mo Jamshidi

T09 Mechatronics and Robotics II

Second II

15:40 - 17:20 25th June

T09B-1 CF-000647

Research of heat dissipation of RGB-LED backlighting system on LCD

Xumin Shao, Yong Cai, Huadong Li, Mingguang Wu

T09B-2 CF-000744

Method for Improving the Contouring Accuracy for CNC Profiling Machines at the Shop Floor Level

Radu E. Breaz, Octavian C. Bologa, Cristina Biris, Gabriel S. Racz, Claudia Girjob, Valentin S. Oleksik

T09B-3 CF-001317

Parameters Optimization Based on Evolutionary Algorithm for Nonlinear Hydraulic Servo System

Shaoping Wang, Jun Du, Zongxia Jiao

**Plenary Tutorial: On Organizational Transformation in the
Digital Economy**

**Prof. Mihaela Ulieru, University of New Brunswick
Birt Acres**

09:00 – 10:00 26th June

10:00 – 10:20 – Tea & Coffee Break

**Keynote 3: Towards the Perfect Plant via real-world cross-
layer collaboration**

**Stamatis Karnouskos, SAP
Birt Acres**

10:20 – 11:20 26th June

S02 I *PROMS Network of Excellence

Birt Acres

11:20 - 13:00 26th June

S02-1 CF-000396

QoS Modeling and Analysis for Manufacturing Networks: A Service Framework
Zude Zhou, Wenjun Xu, Duc Truong Pham, Chunquian Ji

S02-2 CF-001759

Adaptive and Reconfigurable Control Framework for the Responsive Factory
Martijn Rooker, Thomas Strasser, Andreas Pichler, Gernot Stübl, Alois Zoitl, Ivanka Terzic

S02-3 CF-003255

FuzzyRULES: A Fuzzy Rule Induction Algorithm for Mining Classification
Knowledge
Ashraf Afify

S02-4 CF-003328

5I* Performance indicators of machining and operations management systems
Ercan Oztemel, Cemalettin Kubat

T12B Supply Chain Management and Logistics II

Ground I

11:20 - 13:00 26th June

T12B-1 CF-002054

A Study of Inventory-Routing Problem for the Distribution System of a Distribution
Center
Gia-Shie Liu, Chung-Yung Wang, Zhi-Yong Chen

T12B-2 CF-002372

Interacting with the Supply Swarm: Towards an Interactive and Visual Management of Supply Webs

Thomas Schlegel, Stefan Kirn

T12B-3 CF-002909

Transforming SME strategies via innovative transient knowledge-based alliances in the Construction Sector

Yacine Rezgui, John Miles

T12B-4 CF-003557

Strategic Supply Chain Positioning (SSCP) Methodology Development and Evaluation

Roland Lim, Laura Xiao Xia Xu, Bin Ma

T08 Information Security, Safety and Trust Ground II

11:20 - 13:00 26th June

T08-1 CF-000477

Research on an SOA-based Virtual Enterprise Access Control Model

Dejun Chen, Rui Hu, Zhu Du, Zude Zhou, C. Ji

T08-2 CF-002089

Toward Spam 2.0: An Evaluation of Web 2.0 Anti-Spam Methods

Pedram Hayati, Vidyasagar Potdar

T08-3 CF-002224

Analysis of the Better Directed Progression Routing Protocol for Industrial Ad-hoc Multi-hop Mesh Networks

Diogo Silva, Dennis Brandão

T08-4 CF-003506

Detecting Security Anomalies from Internet Traffic using the MA-RMSE Algorithms

Chun Che Fung, Breno Pinto, Varin Khera

T03 Emerging Platform Technologies in Industrial Informatics

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11:20 - 13:00 26th June

T03-1 CF-000183

Integration of Agents and RFID in a Manufacturing Simulation

Daniel Diep, Francois Pfister, Antoine Candeias

T03-2 CF-000302

ProMoRTE: A process model runtime environment based on OSGi

Bernhard Dorninger

T03-3

CF-000701

Development and Adaptation of IEC 61499 Automation & Control Applications with Runtime Variability Models

Roman Froschauer, Alois Zoitl, Paul Gruenbacher

T03-4

CF-000884

Study on the Hybrid Software Architecture of Distributed Parallel Rendering System for Virtual Design

Gao Xin, Jia Qing-xuan, Sun Han-xu, Song Jing-zhou