ICAT-2011 Preliminary Conference Program & Time table

- 1	THURSDAY		FRIDAY		SATURDAY		
Time	27.10.2011.		28.10.2011.		29.10.2011.		
08:00							
08:15							
08:30	Participant registration						
08:45							
09:00					Plenary talk IV		
09:15			Plenary	y talk III			
09:30							
09:45			Coffee break				
10:00	Opening ceremony				Coffee break		
10:15							
10:45	Plenar	y talk I	Session III				
11:00	Ficilar	y taik i					
11:15					Session VII	Workshop II	
11:30	Plenary talk II						
11:45							
12:00	Welcome Cocktail						
12:15			Sessi	Session IV			
12:30					Session VIII		
12:45							
13:00							
13:15	Lunch	break	Lunch break		Session vin		
13:30			Eulien Breuk				
13:45							
14:00	Session I					Lunch break	
14:15							
14:30			Workshop I				
14:45							
15:00							
15:15			Coffee break Sponsor presentations				
15:30 15:45							
16:00							
16:15	Coffee break Sponsor presentations				Guided City Tour		
16:30							
16:45			Session V	Tutorial II			
17:00	Session II	Tutorial I					
17:15							
17:30							
17:45							
18:00	Session VI						
18:15			OnLine				
18:30			Session				
18:45							
19:00							
19:15							
19:30							
19:45							
20:00	Gala Dinner (invitation only)		IEEE BiH Cocktail				
20:30							
21:00							
22:00							
22:30							
23:00							
23:30							
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8:00-10:00 Registration

10:00-10:30 Opening ceremony

10:30-11:15 Plenary talk I

 Control Challenges for Smart Vehicles *Maarten Steinbuch*

11:15-12:00 Plenary talk II

 Convergence Analysis for a Class of Source Separation Methods *Alper Erdogan*

12:00-12:45 Welcome Cocktail

12:45-14:00 Lunch

14:00-16:00 Session I: Robotics

- **Paper ID. 33:** Reduced Order Dynamics and Stability of a Parallel Manipulator through Bond-Graph Technique
- **Paper ID. 42:** Development of microgripper
- Paper ID. 68: Path Finding Simulator for Mobile Robot Navigation
- **Paper ID. 98:** Operating Characteristics of a Passive, Bidirectional Overrunning Clutch for Rotary Robots Joints
- **Paper ID. 160:** The Path Planning Algorithms for a Mobile Robot based on the Occupancy Grid Map of the Environment A Comparative Study
- Paper ID. 163: Safe Motion Planning for Articulated Robots Using RRTs
- Paper ID. 192: SmartLeg: An Intelligent Active Robotic Prosthesis for Lower-Limb Amputees

16:00-16:45 Coffee Break Sponsor presentations

16:45-18:00 Session II:

Nonlinear and optimal control, hybrid systems

- Paper ID. 11: Optimal Torque Control of the Interior Permanent Magnet Synchronous Machine
- **Paper ID. 43:** Decentralized set-valued state estimation and prediction for hybrid and discrete event systems
- Paper ID. 73: Using Behavior Models for Anomaly Detection in Hybrid Systems
- Paper ID. 85: Nonlinear Model Predictive Control of a Benchmark Nonlinear Boiler
- **Paper ID. 144:** Nonlinear Observer Design for a Class of Lipschitz Time-Delay Systems with Unknown Inputs: LMI Approach

18:00-19:00 Session VI:

Signal processing and communication

- **Paper ID. 47:** New edge sorting criterion for maximum clique search algorithm in unit disk graphs
- Paper ID. 69: New Architecture Model for Measuring Dynamic Changes of EMF Strength Levels Using Smart Dust motes
 - **Paper ID. 84:** Generalized Orthogonalization Method for finite discrete signals and its application

16:45-19:00 Tutorial I:

 A Control Engineering Perspective into Radio Resource Management Challenges In Emerging Cellular/Noncellular Radio Systems Zekeriya Uykan

9:00-9:45 Plenary talk II:

 Co-Operative Decision Making & Control Systems *Ljubo Vlacic*

9:45-10:15 Coffe Break

10:15-11:45 Session III: Image and video processing

- Paper ID. 48: Full Wave Analysis in 3D Laser Scans for Vegetation Detection in Urban Environments
- Paper ID. 49: Efficient Processing of Large 3D Point Clouds
- Paper ID. 112: Cheap Live Color Recognition with Webcam
- Paper ID. 146: Automatic Extraction of Cortical Gray Matter by Geodesic Contours
- Paper ID. 151: Image Retrieval Using Annular Histograms of Simple Binarized Feature Vectors Generated from DCT Coefficients
- Paper ID. 150: Localizing Google SketchUp Models in Outdoor 3D Scans

11:45-13:00 Session IV:

Fuzzy and Neural Systems

- **Paper ID. 10**: Reduction of low-resolution incremental encoder usage effects on control performance by using a fuzzy controller
- Paper ID 66: Multilayered Feedforward Neural Networks as a Tool for Distinction of the Authors of Texts
- Paper ID. 88: Simulation of Neuro-Fuzzy Controlled Grid Interactive Inverter
- Paper ID 95: V-BiCoMeS: A Binary Content Addressable Memory System
- Paper ID. 120: Neural Learning Behavior of Mobile Robot by Visually based Sequence of Actions

13:00-14:00 Lunch Break

14:00-15:30 Workshop I:

Safety Instrumented Systems for Automotive and Industrial Applications

- **Paper ID. 72:** A Partially Automated HiL Test Environment for Model-Based Development using Simulink® and OPC Technology
- Paper ID. 74: Enhancing sefca to a SystemC based testbench tool for design verification
- Paper ID. 79: New Approach to Determine the Critical Number of Failure in Software Systems
- **Paper ID. 80:** Considering and Comparing Safety Parameters using Different Calculation Approaches of PFD/PFH/HR
- **Paper ID. 97:** Towards safe data flow processing by integration of Design by Contract in deterministic UML activities

15:30-16:15 Coffee Break

Sponsor presentations

16:15-18:15 Session V:

Industrial automation

- Paper ID. 23: Modeling Knowledge for User-Centric Energy Cost Analysis of Industrial Automation Systems
- Paper ID. 57: Model of Elevator Drive With Jerk Control
- Paper ID. 76: Real Time DSP Based PID and State Feedback Control of Brushed DC Motor
- Paper ID. 133: Parameter Identification and Digital Control of Speed of a Permanent Magnet DC Motors
- Paper ID. 145: Design and Implementation of DSP-Based Three-Phase PFC
- **Paper ID. 138:** Agile Accelerated Aging and Degradation Characterization of a V/F Controlled Induction Motor in a Conveyor Belt Process

18:15-19:00 On-Line Session:

Data mining and human-computer interaction

• Paper ID. 183: Evaluation of Authorship Attribution Software on a Chat Bot Corpus

Paper ID. 187: An Improved LBP Algorithm for Avatar Face Recognition
 Paper ID. 191: New Hierarchical model using SOM Improves Accuracy of multiclass datasets

16:15-19:00 Tutorial II:

 Compressed Sensing (CS) Tutorial: Basic Elements of Compressed Sensing *Almir Mutapcic*

20:00-22:00 IEEE BiH Cocktail

Saturday, 29.10.2011.

9:00-10:00 Plenary talk IV:

 Experiments into Biology-Technology Interaction Kewin Warwick

10:00-10:30 Coffe Break

10:30-12:30 Session VII:

Electrical machines, drives and power engineering

- **Paper ID. 27:** Application of coupled 1D and 2D isoparametric discontinuous boundary elements in the calculation of large grounding systems
- **Paper ID. 28:** Modeling of coupled turbulent flow of SF6 gas and the electric field in the switching element switches the high voltage caused by interruption of capacitive currents
- Paper ID. 56: Power Loss Model for Efficiency Improvement of Boost Converter
- Paper ID. 132: Design of Wound Rotor Low-Voltage Synchronous Generator
- Paper ID. 149: Investigation of Current Harmonics Using FEM on Different Rotor Type of PMSM

10:30-12:30 Workshop II:

 Thermal 3D Modeling of Indoor Environments for Saving Energy Jasmin Velagić

12:30-14:00 Session VIII:

Modeling, identification and optimization

- **Paper ID. 2:** Calculation of Optimal Trajectories of Mobile Robot Based on Minimal Curving Radius and Task Tree Based Approach
- Paper ID. 52: A Frequency Based Method for Complete Identification of Hammerstein-type Plants Based on Relay Feedback
- Paper ID. 81: Exact Double DCJ Distance Between Circular Genomes
- **Paper ID 83:** Implementation and performance analysis of the Simplex algorithm adapted to run on commodity OpenCL enabled graphics processors
- Paper ID. 142: Multidimensional Performance Optimization of Switched Reluctance Machines

14:00-15:00 Lunch Break

15:00-18:00 Guided City Tour

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