

ICSEng 2014 Conference Program

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Monday August 18	5.00 - 7.00 p.m.	TBE A Building (Great Hall)
		REGISTRATION

Tuesday August 19	8.00 - 8.45 a.m.	TBE A Building (Great Hall)			
		REGISTRATION			
		TBE A Building (A107)			
	9.00 - 9.15 a.m.	CONFERENCE INAUGURATION			
	9.15 - 10.15 a.m.	KEYNOTE: Next Generation Identification Management Systems, Shahram Latifi			
		TBE B Building (Entry)			
	10.15 - 10.25 a.m.	ICSEng 2014 Photo			
		TBE A Building (Great Hall)			
	10.25 - 10.40 a.m.	COFFEE BREAK			
		TBE B172	TBE B174	TBE B176	TBE B178
		Session 12.1 System Engineering Standards, Paradigms, Metrics, Testing, etc	Session 4.1 Intelligent Systems	Session 19.1 (Special) From Boolean Problems to the Internet of Everything	Session 8 Analog and Digital Hardware Systems
	10.40 - 11.00 a.m.	Expert Systems Based Response Surface Models for Multidisciplinary Design Optimization R. Gabbur, K. Ramchand	Presentation of a Fuzzy Control Training and Test System K-D. Kramer, S. Braune, A. Söchting, T. Stolze, Ch. Blankenberg	Simulation of Manycore Computer System Architecture Z. Chaczko, M. Al-Manasia	Implementation of an Efficient Library for Asynchronous Circuit Design with Synopsys T. Caohuu, J. Edwards
	11.00 - 11.20 a.m.	A Survey of Approaches used in parallel architectures and Multi- core Processors, For Performance Improvement S. Shukla, P. Chande	Web Service Intrusion Detection Using a Probabilistic Framework H. Sallay, S. Bourouis, N. Bouguila	Design And Implementation of Novel Algorithms For Frequent Pattern Trees B. Babu, S. Chakravarthy, S. Prasad	A Dynamic System Matching Technique-An Analytical Study P. Stubberud, S. Stubberud, A. Stubberud
11.20 - 11.40 a.m.	Aligning systems engineering and project management standards to improve the management of processes R. Xue, C. Baron, P. Esteban	Multi-Agent Reinforcement Learning Control for Ramp Metering A. Fares, W. Gomaa	Rule induction based on logic synthesis methods G. Borowik, A. Krasniewski, T. Luba	On the effect of High Power Amplifier Non-linearity on the Ergodic Capacity of Multihop MIMO-OFDM Amplify-and- Forward Relay Network I. Ahmad, K. Abuhasel, A. Khan	
11.40 - 12.00 p.m.	Effect of the groove dimensions and orientation on the static and dynamic performance of non recessed hybrid journal bearing K. Pandey	Intelligent system concept for high-energy performance and adaptable user comfort V. Tanasiev, A. Badea, C. Dinca, H. Necula	Hybrid GPU/CPU Approach to Multiphysics Simulation D. Krol, J. Harris, D. Zydek	Stability Analysis of Continuous Time Sigma Delta Modulators K. Kang, P. Stubberud	
	DIN (Dining Commons)				
12.00 - 1.00 p.m.	LUNCH BREAK				

	TBE B172	TBE B174	TBE B176	TBE B178
	Session 12.2 System Engineering Standards, Paradigms, Metrics, Testing, etc	Session 4.2 Intelligent Systems	Session 19.2 (Special) From Boolean Problems to the Internet of Everything	Session 5 Industrial Automatics and Robotics
1.00 - 1.20 p.m.	Understanding Asynchronous Distributed Collaboration in an Enterprise Systems Engineering Context G. Klein, J. Drury, S. Condon	Sparse hidden units activation in Restricted Boltzmann Machine J. Tomczak, A. Gonczarek	Simpler Functions for Decomposition B. Steinbach	Sensorless Force Estimation for a Two-Link Manipulator Based Upon Linear Dynamics D. Isenberg

Tuesday August 19	1.20 - 1.40 p.m.	A design model for rapid transit networks considering rolling stock's reliability and redistribution of services during disruptions E. Codina, Á. Marín, L. Montero	Accelerated learning for Restricted Boltzmann Machine with momentum term S. Zareba, A. Gonczarek, J. Tomczak, J. Swiatek	Generalized Spring Tensor Model: A New Improved Load Balancing Method in Cloud Computing S. Aslanzadeh, Z. Chaczko	A Joint-Space Parametric Formulation for the Vibrations of Symmetric Gough-Stewart Platforms B. Afzali-Far, P. Lidström
	1.40 - 2.00 p.m.	Management System Architecture for 3D Audio Evaluation Database J. Hwang, J. Kim, S. Kang	Optimizing Interface Area of Percolated Domains in Two Dimensional Binary Compound: Artificial Neural Network Modeling on Monte Carlo Experiments Y. Laosiritaworn, W. Laosiritaworn	Middleware Solution for Cross-Site Data Transfer Z. Chaczko, S. Aslanzadeh, M. Soltany	Virtual Enterprise Process Monitoring: An Approach towards Predictive Industrial Maintenance A. Shamsuzzoha, F. Ferreira, A. Azevedo, P. Helo
	2.00 - 2.20 p.m.	Cost Effectiveness of Coverage-Guided Test-Suite Reduction for Safety-Relevant Systems S. Kandl	Vulnerability evaluation of multiplexing PUF for SVM attacks S. Kiryu, K. Asahi, M. Yoshikawa	Architecture of Internet of Things for Smart Grids L. Alqarni, Z. Chaczko, S. Aslanzadeh	Module-based release management for technical changes S. Günther, R. Stefan, A. Sasa
	2.20 - 2.40 p.m.	Applying System of Systems Engineering Approach to Build Complex Cyber Physical Systems L. Zhang	Autonomous Visualization for Mitigating Lack of Peripheral Vision in Remote Safe Teleoperation J.K. Mukherjee	Specification and Design Method for Big Data Driven Cyber Physical Systems L. Zhang	Trajectory Optimization by Particle Swarm Optimization in Motion Planning J.J. Kim, J.J. Lee
	2.40 - 3.00 p.m.	Migration from Legacy Systems to SOA Applications: A Survey and an Evaluation S. Suwisuthikasem, M. H. Samadzadeh	Predictability of Firm Financial Sustainability Using Artificial Neural Networks: The Case of Qatar Exchange F. Amani, A. Fadlalla,		Cost model for an integrated load carrier design process in the lithium-ion battery production A. Kampker, Ch. Deutskens, H. Heimes, M. Ordnung, A. Haunreiter

Tuesday August 19	TBE A Building (Great Hall)				
	3.00 - 3.20 p.m.	COFFEE BREAK			
		TBE B172	TBE B174	TBE B176	TBE B178
		Session 12.3 System Engineering Standards, Paradigms, Metrics, Testing, etc	Session 4.3 Intelligent Systems	Session 19.3 (Special) From Boolean Problems to the Internet of Everything	Session 10 Biometrics Systems & Computer Assisted Medical Diagnostic Systems
	3.20 - 3.40 p.m.	An Approach to Schedule Production using the Reservation Tables S. Zaporojan, V. Moraru, A. Groza	Improving Multi-Panel Lamination Process Optimization using Response Surface Methodology and Neural Network W. Laosiritaworn	A Survey on Design and Implementation of Floating Point Adder in FPGA L. Daoud, D. Zydek, H. Selvaraj	2D Multi-Slice and 3D k-Space Simulations using a 3D Quadric Head Phantom with MRI Properties H. Gach
	3.40 - 4.00 p.m.	Towards a Holistic Definition of System Engineering: Paradigm and Modeling Requirements H. Aboutaleb	Selecting right questions with Restricted Boltzmann Machines M. Zięba, J. Tomczak, K. Brzostowski	A Development Study on Performance of a Real-Time Interface Device A. Guclu, Y. Atay, Y. Genc	Privacy Preserving Biometric Voice Authentication System SIPPA-based Approach B. Sy
	4.00 - 4.20 p.m.	Model Integration and Model Transformation Approach for Multi-Paradigm Cyber Physical System Development L. Zhang	A semantic approach for identifying assurance deficits in unmanned aerial vehicle software A. Groza, I. A. Letia, A. Goron, S. Zaporojan	Simulating Active Interference Cancellation in Cognitive Radio Z. Chaczko, G. Borowik, P. Hsieh,	A Smart Carpet Design for Monitoring People O. Tanaka, T. Ryu, A. Hayashida, V. Moshnyaga
4.20 - 4.40 p.m.		A load optimization considering reverse synergy that may occur with mixed load Y. Kim, M. Kim, H. Lee		Classification of Lungs Nodule using Hybrid Features from CT Scan Images A. Jaffar, A. Eisa	

4.40 - 5.00 p.m.				
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	TBE A Building (A107)			
9.00 - 10.00 a.m.	KEYNOTE: System and Design Technology for Advanced Cyber-Physical Systems, Lech Jóźwiak			
	TBE A Building (Great Hall)			
10.00 - 10.20 a.m.	COFFEE BREAK			
	TBE B172	TBE B174	TBE B176	TBE B178
	Session 2.1 General Control Systems	Session 4.4 Intelligent Systems	Session 7.1 Distributed Computer and Computer Networks Systems	Session 6.1 Information and Communication Systems
10.20 - 10.40 a.m.	Generalization of the observer principle for Youla-parametrized regulators L. Keviczky, C. Bányász	The Periodic Signal Filtration Using the Robust Digital Filter Order Calculation Optimized by Approximation A. Sergeev-Horchynskiy, R. Valeriy	Parameter Trade-off And Performance Analysis of Multi-core Architecture S. Kumar Shukla, P.K. Chande	Software Project Planning Using Agile Y. Ma, J. Han
10.40 - 11.00 a.m.	Nonlinear Optimal Tracking With Incomplete State Information Using State Dependent Riccati Equation A. Khamis, D. S. Naidu, D. Zydek	A Reasoning System for Predicting Study Level based on User's Watching Behaviors J. Kim, J. Hwang, S. Kang, N. Heo	Task Allocation within Mesh Networks: Influence of Architecture and Algorithms A. Postawka, I. Pozniak-Koszalka	A Modeling Approach to Support Safety Assurance in the Automotive Domain Y. Luo, M. Van Den Brand, L. Engelen, M. Klabbers
11.00 - 11.20 a.m.	Nonlinear Position Control of DC Motor Using Finite-Horizon State Dependent Riccati Equation A. Khamis, D. S. Naidu, D. Zydek	Temporal Constraints and Sub-Dimensional Clustering for Fast Similarity Search over Time Series Data. Application to Information Retrieval Tasks. S. Benabderrahmane	Improving TCP Performance in Mix Networks M. Watfa, M. Diab, N. Stephen	Lossless Compression of Climate Data B. Chandra Mummadietty, A. Puri, E. Sharifahmadian, S. Latifi
11.20 - 11.40 a.m.	The Compensation of N-th Order Bilinearity Applied with Model Based Controller L. Gadek, L. Koszalka, K. Burnham	Classification of multichannel EEG signal by linear discriminate analysis M.R. Hasan, M.I. Ibrahimy, S.M.A. Motakabber	Approximation algorithms for utility-maximizing network design problem M. Drwal	Dynamic OD transit matrix estimation: formulation and model-building environment L. Montero, E. Codina, J. Barceló
11.40 - 12.00 p.m.	Estimation For Target Tracking Using A Control Theoretic Approach - Part 2 S. Stubberud, A. Teranishi, K. Kramer		An Epidemic Routing with Low Message Exchange Overhead for Delay Tolerant Networks T. Choksatid, S. Prabhavat	Microstrip Spiral Resonator for the UWB Chipless RFID Tag A.K.M.Z. Hossain, M.I. Ibrahimy, S.M.A. Motakabber
	DIN (Dining Commons)			
12.00 - 1.00 p.m.	LUNCH BREAK			

	TBE B172	TBE B174	TBE B176	TBE B178
	Session 2.2 General Control Systems	Session 16 (Special) Computational Cognitive Science	Session 7.2 Distributed Computer and Computer Networks Systems	Session 6.2 Information and Communication Systems
1.00 - 1.20 p.m.	Identification of fractional order models: Application to 1D solid diffusion system model of lithium ion battery cell W. Allafi, I. Zajic, K. Burnham	Emotion Estimation using Geometric Features from Human Lower Mouth Portion P. Shanthi, A. Vadivel	UAV cooperative data processing using distributed computing platform G. Chmaj, H. Selvaraj	Review and Refined Architectures for Monitoring, Information Exchange, and Control of Interconnected Distributed Resources P. Kumar, R. Bhimasingu
1.20 - 1.40 p.m.	A comparative study of model-based and data-based model order reduction techniques of nonlinear systems T. Aizad, O. Maganga, M.	Hybrid Multilingual Key Terms Extraction System for Hindi and Punjabi Text V. Gupta	Network Energy Reduction via an Adaptive Shutdown Algorithm M. Watfa, L. Chehab, Z. Balbahaith,	Methodology and Platform for Business Process Optimization A. Grzech, K. Juszczyszyn, P. Świątek

Wednesday August 20	1.40 - 2.00 p.m.	Modeling and identification of a fractional-order discrete-time Laguerre-Hammerstein system R. Stanisławski, M. Gałek, K. J. Latawiec, M. Łukaniszyn	Sentiment and Emotion Prediction through Cognition: A Review T. Vetrivel, V. Ayyaswamy	Identification of Redundant Node-Clusters for Improved Face Routing L. Gewali	An Algorithm for Multi-Source Geographic Data System C. S. Lee, H. J. Tsai, Y. Y. Chang
	2.00 - 2.20 p.m.	Optimised Job-Shop Scheduling via Genetic Algorithm for a Manufacturing Production System Z. Shen, K. Burnham, L. Smalov	Cognitive based Sentence Level Emotion Estimation through Emotional Expressions S.G. Shaila, A. Vadivel	Distributed processing applications for Unmanned Aerial Vehicles: a survey G. Chmaj, H. Selvaraj	A System for Conceptual Design Based on Energy-Informational Model V. Zaripova, I. Petrova
	2.20 - 2.40 p.m.		A Short Review for Mobile Applications of Sentiment Analysis on various domains M. Sivakumar, S. Reddy		
	2.40 - 3.00 p.m.				
	TBE A Building (Great Hall)				
3.00 - 3.20 p.m.	COFFEE BREAK				

	TBE B172	TBE B174	TBE B176	TBE B178
	Session (Special) Special Session: Intelligent Video Surveillance Systems	Session 17.1 (Special) Nature-inspired Computational Methods and Applications	Session 3.1 Power Systems	Session 15 Transportonics Engineering & Aerospace Systems
3.20 - 3.40 p.m.	A Fast Non-searching Algorithm for the High-Speed Target Detection J. Zheng, T. Su, W. Zhu, Q. Huo Liu	Teaching Learning Based Optimization (TLBO) based Improved Iris Recognition System S. Sharma, S. Agrawal, S. Silakari	Security Breach Possibility with RSS-Based Localization of Smart Meters Incorporating Maximum Likelihood Estimator M. Jamei, A. Sarwat, S. Iyengar, F. Kaleem	Superpixel based semantic segmentation for assistance in varying terrain driving conditions I. Gheorghe, W. Li, T. Popham, K. Burnham
3.40 - 4.00 p.m.	A Comparative Study of Video Splitting Techniques A. Saudagar, H. Mohammed	Hybrid identification of bilinear model in the presence of uncertainty and absence of sufficient data J. Trollope, K. Burnham	3D CFD Simulation of the Thermal Performance Of an Air Channel Solar Heater S. Moujaes, J. Patil (presenter: S. Mol)	Speed-Volume Relationship Model for Speed Estimation on Urban Roads in Intelligent Transportation Systems Z. Liang, W. Yasushi
4.00 - 4.20 p.m.	Trajectory Based Unusual Human Movement Identification for Video Surveillance System H. Rai, N. Keshav, M. Kolekar, J. K. Mukherjee	Acceleration based Particle Swarm Optimization (APSO) for RNA Secondary Structure Prediction S. Agrawal, J. Agrawal	Anti-islanding Test results for multiple PV inverter operations B. Yu, Y. Jung	Robust Output Feedback Attitude Control of Spacecraft Using Solar Radiation Pressure L. Srinivasan, K. Lee, S. Singh
4.20 - 4.40 p.m.		An Adaptive Controller of Traffic Lights using Genetic Algorithms K. Udagepola, B. Alshami, N. Afzal, X. Li	Active/Reactive Power Control of Three Phase Grid Connected Current Source Boost Inverter Using Particle Swarm Optimization A. Sargolzaei, M. Jamei, K. Yen, A. Sarwat, M. Abdelghani	Titan Science Return Quantification C. Weisbin, W. Lincoln

	UNLV Foundations Building (FND)			
6.00 - 8.00 p.m.	CONFERENCE BANQUET AT UNLV Foundations Building			

Thursday August 21		TBE A Building (A107)			
	9.00 - 10.00 a.m.	KEYNOTE: Technology Innovation and Economic Development, Jason Mendenhall			
		TBE B Building (Main Hall)			
	10.00 - 10.20 a.m.	COFFEE BREAK			
		TBE B172	TBE B174	TBE B176	TBE B178
			Session 17.2 (Special) Nature-inspired Computational Methods and Applications	Session 3.2 Power Systems	
	10.20 - 10.40 a.m.		Performance Analysis of Zone Based Features for Online Handwritten Gurmukhi Script Recognition using Support Vector Machine K. Verma, R.Sharma	Suggested Simulation Of The First Copper-Chlorine Reactor Step For Solar Hydrogen Generation Process S. Moujaes, M. Yassin (presenter: S. Pribastami)	
	10.40 - 11.00 a.m.		Agile Rough Set Based Rule Induction to Sustainable Service and Energy Provision C. Huang, T. Tseng, Y. Liu, J. Chu, P. Chen	A compact heat pump concept utilizing high speed rotation H. Karlsen, T. Dong	
	11.00 - 11.20 a.m.		Intelligent Web Application Systems Testing through Value Based Test Case Prioritization A. Rauf, A. AlSalem	Life cycle assessment of circulating fluidized bed combustion with CO2 post- combustion capture C. Dinca, A. Badea	
	11.20 - 11.40 a.m.		Words Are Analogous To Lymphocytes: A Multi-Word- Agent Autonomous Learning Model J. Yang, X. Dong, Y. Guan	Experimental Investigation of Spray Evaporation on a Flat Flake Surface with Constant Heat Flux Z. Shi, T. Dong	
11.40 - 12.00 p.m.		Counting of water-in-oil droplets for targeted drug delivery systems using capacitive sensing technique C. Barbosa, T. Dong			
	DIN (Dining Commons)				
12.00 - 1.00 p.m.	LUNCH				