



INTERNATIONAL CONFERENCE ON MODELLING, IDENTIFICATION AND  
 CONTROL 2013  
 PRELIMINARY PROGRAM VER2

		Track 1	Track 2
Aug-31	08:30-09:00	Opening Speech	
	09:00-10:00	Keynote speaker 1	
	10:00-10:30	Coffe break	
	10:30-12:00	Modeling1	Power Systems 1
	12:30-01:30	Lunch	
	01:30-03:00	Modeling2	Biomidical Control Applications
	03:00-03:30	Coffe break	
	3:30-05:00	Robotics	Power Electronics and Machines
Sep-01	08:30-10:00	Keynote speaker 2	
	10:00-10:30	Coffe break	
	10:30-12:00	Modeling3	Power Systems 2
	12:30-01:30	Lunch	
	01:30-03:00	Optimization	Topics on Moeling & Control Applications
	03:00-03:30	Coffe break	
	3:30-05:00	Comunications	Signal processing and robust control
Sep-02	09:00-17:00	Conference Tour	
	19:00-22:00	Banquet and conference closing session	



### Day1-Track1: Modeling 1

paper	Sub #	Title	authors	Country	Cat
Mod1	5	Modelling on Web Dynamic Incremental Crawling and Information Processing	Kai Gao, Mei Li and Wei Wang	China	paper
Mod2	33	Identification of Paper Machines Cross-Directional Models in Closed-Loop	Mohammed Ammar and Guy Dumont	Egypt Canada	paper
Mod3	13	Solutions for Flexible Wing Aircraft's Dynamics Model with Generalized Forces	Di Zhang and Zhengjie Wang	China	aero
Mod4	30	Supersonic Numerical Analysis for a Rigid Tension Cone Inflatable Aerodynamic Decelerators with/without a Base	Xiuling Ji and Shuai Sun	China	aero
Mod5	72	Fast Simulation of Nonlinear Dynamical Systems for Application in Model Reduction	Shahkar Ahmad, Mohammad Abid, Mashuq-Un Nabi and S Janardhanan	India	reduction
Mod6	71	Adaptive Parameter Space Sampling in Matrix Interpolatory pMOR	Mohammad Abid, Shahkar Ahmad, Mashuq-Un Nabi and S Janardhanan	India	reduction
Mod7	19	Analysis and Calculation of Uncertainties in the Calibration of Dose Rate Meters in ECLEG Laboratory for Accurate Measurement	Safey Abdelwahab	Egypt	



## Day1-Track1: Modeling 2

paper	Sub #	Title	authors	Country	Cat
Mod8	31	An Accurate Model for Chromatic Dispersion in Optical Fibers under Radiation and Thermal Effects	Imbaby Mahmoud, Abd El-Naser Mohamed, Ahmed Rashed, Mohamed Eltokhy and Osama Elgzar	Egypt	fiber
Mod9	40	Modeling of Radiation Induced luminescence and How to Reduce Cherenkov Effect in Optical Fibers	Imbaby Mahmoud, Abd Elnaser Mohamed, Ahmed Rashed, Mohamed Eltokhy and Osama Elgzar	Egypt	fiber
Mod10	32	Mathematical Modeling of Upflow Anaerobic Sludge Blanket Reactor in Domestic Wastewater Treatment	Mostafa El-Seddek, Mona Galal, Ahmed Radwan and Hisham Abdel-Halim	Egypt	chem
Mod11	121	Mathematical Modeling of Upflow Anaerobic Sludge Blanket Reactor in Domestic Wastewater Treatment	Mostafa El-Seddek, Mona Galal, Ahmed Radwan, Hisham Abdel-Halim	Egypt	chem
Mod12	109	Simulation Model for Mesophilic Anaerobic Digestion Heating System	Emmanuel Ogbonna, Rashid Ali and George Pissanidis	United Kingdom	chem
Mod13	46	Modeling and Control of Particle Levitation in an Acoustic Levitation Tube	Narayanan Ramachandran, Farzad Pourboghrat and Hany Abdelsalam	United States Egypt	acoustic
Mod14	56	Model structure selection of NARMAX models in the frequency domain - Part I: theoretical aspects	Alexandro G. Brito, Elder M. Hemerly and Waldemar C. Leite Filho	Brazil	narmax
Mod15	57	Model structure selection of NARMAX models in the frequency domain - Part II: methodology and applications	Alexandro G. Brito, Elder M. Hemerly and Waldemar C. Leite Filho	Brazil	narmax



### Day1-Track1: Robotics

paper	Sub #	Title	authors	Country
Rob1	51	Performance and Stability Analysis of an Autonomous Underwater Vehicle Guidance and Control	Gamal Elnashar	Egypt
Rob2	54	Bayesian Neural Networks with Anomaly Prediction for Swarm-CubeSATS linked to MARS rover	Kalaiarsi Periasamy	India
Rob3	79	Improved Sensor-Based Mobile Robot Exploration of Novel Environments	Haitham El-Hussieny, Samy F. M. Assal and Mohamed Abdellatif	Egypt
Rob4	80	Modified A* Algorithm for Safer Mobile Robot Navigation	Basem Elhalawany, Hala Abdel-Kader, Adly Tageldeen, Zaki B. Nossair and Alaa Eldeen Sayed	Egypt
Rob5	83	Optimal Synthesis of Mechanical Systems Using Natural Coordinates	Xiufeng Li, Yabin Wang and Xiaofeng Li	China
Rob6	94	Control of an Upper Extremity Exoskeleton Robot to Provide Active Assistive Therapy	Mohammad Rahman, Cristobal Ochoa-Luna, Steven Ferrer, Maarouf Saad and Philippe Archambault	Canada
Rob7	114	Double Actuated Planar Single Legged Hopping Robot Forward Speed and Hopping Height Control	Ahmed Adel ,Abdullateef Elshafei, Khaled Metwalley	Egypt
Rob8	92	State Estimation via Invariant Extended Kalman Filtering for MAV in GPS-denied Environments Using RGB-D and Inertial Sensors	Dachuan Li, Qing Li, Nong Cheng, Qinfan Wu, Jingyan Song and Liangwen Tang	China



### Day1-Track2: Power Systems 1

paper	Sub #	Title	authors	Country
PS1	4	Artificial Neural Network Based Approach Compared With Stochastic Modelling For Electrical Load Forecasting	Mohamed Ismail and Mohamed Mustafa	Egypt
PS2	7	Modeling and Control of Combined Cycle Gas Turbines using Rowen's and Vournas's Models	Mohamed Ismail and Mohamed Mostafa	Egypt
PS3	8	The IMC-PID Controller Design for Boiler-Turbine Unit Process Using Relay Feedback Identification Method	Li X F	China
PS4	52	Ant Colony Optimization based PID for single Area Load Frequency Control	Mahmoud Soliman	Egypt
PS5	53	Robust Dynamic Stability Assessment of Fuzzy logic Power System Stabilizers	Mahmoud Soliman	Egypt
PS6	113	Load Frequency Control Using Genetic Algorithm Based PID Controller For Single Area Power System	Mohamed Mahmoud, Mohamed Moustafa, Magdy Aboelela	Egypt
PS7	44	Limits Coordination: A New Strategy in Power Quality Regulation	Khaled Baraka	Egypt
PS8	97	Distribution network state estimation based on node voltage of variable weights	Wenwu Li, Binbin Mi and Cuilian Huang	China
PS9	122	Voltage Swell Mitigation Using Flexible AC Transmission Systems	Marwa Hassan, Mohamed Mostafa	Egypt



## Day1-Track2: Biomedical Control Applications

paper	Sub #	Title	authors	Country
C_APP1	49	Pitching motion characteristics of a supersonic missile using CFD	Xiuling Ji and Tieying Jiang	China
C_APP2	67	A New Approach for Hard Real-Time Scheduling of Multiprocessor Embedded Systems	Hamza Gharsellaoui and Samir Ben Ahmed	Tunisia
C_APP3	81	Identification and Optimal PI Control of an Electrostatic Precipitator	Omar Hanafy Abdalla, Soliman Sharaf and Hazem Feshara	Egypt
C_APP4	118	Performance Comparison of Air Spring Semi-Active Suspension System Using Controllers	Sathishkumar Palanisamy, Jancirani Jeyaraj, Manar Eltantawie	India Egypt
C_APP5	82	StepID - A Matlab GUI for Step Response Identification	Salim Ahmed, Ibrahim Al-Nuaimi, Sara Qaffaf, Zainab Watan, Nada Mustafa and Aoubai Khazndar	Canada, UAE, Qatar, Jordan
C_APP6	17	A control method based on meliorated Potential Fields for dynamic coverage problem with multi-agents	Wenlong Yin, Ningjun Fan and Zhengjie Wang	China
C_APP7	65	Processing Natural Language Based Query and Context Sensitive Spelling Suggestion in Information Retrieval	Kai Gao	China
C_APP8	37	An Efficient Method for High Resolution Frequency Estimation of Power Line Interference	Nauman Razaq, Maryam Butt, Rahat Ali, Ismail Sadiq, Muhammad Salman, Khalid Munawar and Tahir Zaidi	Saudi Arabia Pakistan



## Day1-Track2: Power Electronics & Machines

paper	Sub #	Title	authors	Country
PEM1	34	Improvement of a 3 Cells Inverter From 4 to 8 Levels Applied to a Photovoltaic Energy Conversion	Kelaiaia Mounia Samira, Labar Hocine, Kelaiaia Samia and Mesbah Tarek	Algeria
PEM2	35	Conversion of solar energy by a new multi-cells inverter structure applied to supply the lighting of the Algerian East-West Highway	Labar Hocine, Kelaiaia Mounia Samira, Mesbah Tarek and Kelaiaia Samia	Algeria
PEM3	61	Closed-Loop Control of Single Phase Selective Harmonic Elimination PWM Inverter Using Proportional-Resonant Controller	Islam Mohamed, Naser Abdel-Rahim, Hassan Abdel-Aziz and Tarek Abdel-Hamid	Egypt
PEM4	62	Comparison of Interval Type-2 Fuzzy and Adaptive Backstepping Controllers for Shunt Active Power Filter	Ahmed Elkousy, Sherif Zaid, Ashraf Hagraas and Shokry Saad	Egypt
PEM5	90	Duality Based Model of The Controlled shunt compensator of transformer type (CSCT)	Hosein Samsami and Mohammad Tavakoli Bina	Iran
PEM6	102	Parameter Calculation of Round Rotor Synchronous Generators using Phasor Measurements Signals	Esmail Ghahremani, Hasan Mehrjerdi and Maarouf Saad	Canada
PEM7	75	High Performance Reluctance Synchronous Motor Drive using Field Oriented Control	Ahmed Farhan, Amr Saleh and Adel Shaltout	Egypt
PEM8	107	A Hybrid Hydraulic Piezo Actuator Modeling and Hysteresis Effect Identification for Control in Camless Internal Combustion Engines	Paolo Mercorelli and Nils Werner	Germany
PEM9	108	Parameters Identification in a Permanent Magnet Three-Phase Synchronous Motor for Velocity Planning to Optimize Traction Losses in a City-Bus	Paolo Mercorelli	Germany
PEM10	24	Dead-Beat Controller with Inductor Current Prediction for Boost Converter	Qiaoling Tong, Qian Wen, Run Min, Zhenlin Liu and Qiao Zhang	China



### Day2-Track1: Modeling 3

paper	Sub #	Title	authors	Country	Cat
Mod16	70	Development of Electric Car Model under Rectification Mode with application to battery charging garage	Gary Atkinson-Hope	South Africa	battery
Mod17	95	Lead Acid Battery Modeling	Adel El Shahat	Egypt	battery
Mod18	96	Photovoltaic Source Modeling and Genetic Optimum Operation	Adel El Shahat	Egypt	photovoltaic
Mod19	15	Research on Model for Equipment Spare Parts	Guo Qiang, Jiang Liqiang, Huang Lipo, Gao Jianjun and Han Jincheng	China	spare parts
Mod20	98	Discret Genetic Regulatory Network Modeling	Lu Zhongda, Wang Lijing, Li Dong and Xu Fengxia	China	cont
Mod21	100	Modeling and Designing on Bus Production Planning System Based on Assembly to Order	Ruijie Wu	China	production
Mod22	117	Model Checking of Safety Control Based on Control Components	Hamza Gharsellaoui, Atef Elgharbi, Samir Ben Ahmed	Tunisia	safety
Mod23	105	Modelling and Locomotion Simulation of 6x6 Distributed Electric Driven Ground Vehicle on Rough Terrain	Yue Ma, Changle Xiang, Xiang Luo and Xiaohong Li	China	





**Day2-Track1: Optimization**

paper	Sub #	Title	authors	Country
Opt1	12	Nonlinear optimization and control of an Electric Submersible Pump lifted oil field	Roshan Sharma and Bjørn Glemmestad	Norway
Opt2	16	Research on Equipment Spare Parts Optimization Allocation Based on the Combination Weight and TOPSIS	Guo Qiang, Jiang Liqiang, Huang Lipo, Gao Jianjun and Han Jincheng	China
Opt3	22	Enterprise Competitive Advantages Optimization through Logistics Activities Simulation of Supply Chain	Saleh Mesbah and Sameh Harras	Egypt
Opt4	68	Convergence and Diversity Evaluation for Vector Evaluated Particle Swarm Optimization	Mohd Zaidi Mohd Tumari, Kian Sheng Lim, Zuwairie Ibrahim, Salinda Buyamin, Anita Ahmad, Ismail Ibrahim, Mohd Falfazli Mat Jusof, Faradila Naim and Kamarul Hawari Ghazali	Malaysia
Opt5	69	A Study of the Contribution of Nearest-Neighbour Thermodynamic Parameters to the DNA Sequences Generated by Ant Colony Optimisation	Zuwairie Ibrahim, Ismail Ibrahim, Mohd Falfazli Mat Jusof, Mohd Zaidi Mohd Tumari, Kamarul Hawari Ghazali, Faradila Naim, Zulkifli Md. Yusof, Kamal Khalil, Muhammad Arif Abdul Rahim and Sophan Wahyudi Nawawi	Malaysia
Opt6	73	A comparative Study of Artificial Bee Colony versus PSO and GA for Optimal Tuning of PID Controllers	Nasr Elkhateeb and Ragia Ismail Badr	Egypt
Opt7	89	Employing Artificial Bee Colony with Dynamic Inertia Weight for Optimal Tuning of PID Controllers	Nasr Elkhateeb and Ragia Ismail Badr	Egypt
Opt8	42	Utopian exploration of global patterns of plant metabolism	James Furze, Quanmin Zhu, Feng Qiao and Jennifer Hill	United Kingdom



### Day2-Track1: Communications

paper	Sub #	Title	authors	Country
Comm1	9	Communication modeling in multi-agent environment	Ling Zhou, Jian Luo, Fan Yang, Maoqing Li and Wenxing Hong	China
Comm2	58	Scheduling Algorithm Based on Priority Table with Multi-Characteristic Parameters for NCS	Lu Zhongda, Wang Lijing and Hao Yi	China
Comm3	91	A Hierarchical, Autonomous, and Forecasting Cloud IDS	Hisham A. Kholidy, Abdelkarim Erradi and Sherif Abdelwahed	Qatar, US
Comm4	119	Large Scaled Multi-Users MIMO Systems so called Massive MIMO systems for Future Wireless Communication Networks	Yasir Mehmood, Umair Younas	Pakistan
Comm5	120	An Enhanced Binary Particle Swarm Optimization Algorithm for Channel Assignment in Cognitive Radio Networks	Hisham Abdelsalam, Abdulrahman Al-Shaar	Egypt
Comm6	27	Numerical investigation of long range hopping in randomly asymmetric exclusion process	Mingzhe Liu	China
Comm7	63	SimEvents-based Modeling and Simulation Study of Stop-and-Wait Protocol	Alaa Asebae, Mark Leeson and Roger Green	United Kingdom



## Day2-Track2: Power Systems 2

paper	Sub #	Title	authors	Country
PS12	116	Thermal Protection for Induction Motor using DC Signal Injection Method by Matlap Simulation	Ahmed Mohamed Mohamed, Ahmed Moustafa Hassan, Ismael Wahba	Egypt
PS13	23	LMI based Robust PSS for grid-connected DFIG Wind Turbines	Yuan Peng, Quanmin Zhu and Hassan Nouri	Egypt
PS14	26	Modelling of a Small Scale Vertical Axis Wind Turbine	Lazaros Aresti and Yong Kang Chen	Uk, Egypt
PS15	36	Designing Fuzzy Collective Pitch Controller for Variable Speed Variable Pitch Large Wind Turbines via LMI Techniques	Ahmed Lasheen, Ahmed Kamel and Abdel Latif Elshafei	Egypt
PS16	64	Stochastic Predictive Tracking Controller for Maximum Power Point Tracking in Wind Energy Conversion System	Mahmoud Elnaggar, Hossam Abdel Fattah and Abdel Latif Elshafei	Egypt
PS17	99	Joint Power Generation Schedules of Wind Farms and Pumped Storage Power Stations Based on Load Tracking	Wenxia You and Yangjiang Xiong	China
PS18	101	Wind Power Plant Effect and Control in Hydro-Quebec Electrical Network	Hasan Mehrjerdi, Dalal Asber and Maarouf Saad	Canada



## Day2-Track2: Topics on Moeling & Control Applications

paper	Sub #	Title	authors	Country
C_APP9	6	Design and Application of Intelligent Control System for Greenhouse Environment Based on CAN Bus	Yun Du, Zengtao Xue, Quanmin Zhu, Xin Liu, Yuanzhuo Feng and Yongchun Liang	China United Kingdom
C_APP10	14	Bayesian Neural Networks Based Pipeline Pressure Prediction for Steam System in Steel Industry	Zheng Lv, Ying Liu, Jun Zhao and Wei Wang	China
C_APP11	84	Pipeline Leak Detection Using Artificial Neural Network: Experimental Study	Mohammad Abdulla, Randa Herzallah and Mahmoud Hammad	Jordan
C_APP12	111	A structural damage detection and classification algorithm based on clone selection	Yue Zhou, Xuesong Jia, Feng Qiao and Chuanzhi Zang	China
C_APP13	74	Design and Implementation of an MPC System with Model Error Detection	Guoli Ji, Liangliang Chen, Xuan Zhang, Yucai Zhu and Sun Zhou	China
C_APP14	112	PSORR - An Unsupervised Feature Selection Technique for Fetal Heart Rate	Ahmad Taher Azar, P. K. Nizar Banu and H. Hannah Inbarani	Egypt
C_APP15	38	Self Tuned SSRLS Filter for online Tracking and Removal of Power Line Interference from Electrocardiogram	Nauman Razzaq, Maryam Butt, Rahat Ali, Ismail Sadiq, Muhammad Salman, Khalid Munawar and Tahir Zaidi	Saudi Arabia Pakistan
C_APP16	106	PID and Fuzzy Logic Optimized Control for Temperature in Infant Incubators	Abd-Elrhman Shaaban, Shereen El-Metwally, Moustafa Farghaly and Amr Sharawi	Egypt



## Day2-Track2: Signal Processing & Robust Control

paper	Sub #	Title	authors	Country
Sig1	2	Analysis of Blind Signal Separation of Mixed Signal Based on Fast Discrete Curvelet Transform	Safy Shehata, El-Sayed El-Rabaie, Fathi Abd El-Sami, Said Hagagg, Salah El Deen Diab, Basiony Salam and Mohammed Abbass	Egypt
Sig2	43	A Post-pruning Decision Tree Algorithm based on Bayesian	Wenchao Zhang and Yafen Li	China
Sig3	45	Single Image haze removal using dark channel with improved Airlight and sensitivity control of the model	Ehsan Ullah, Rab Nawaz Chaudhry and Javaid Iqbal	Pakistan
Sig4	104	Estimate of sinusoidal signals with measurement of chaotic signals.	Guillermo Obregón Pulido, Angel Torres González, Gualberto Solís Perales and Roberto Cárdenas Rodríguez	Mexico
Sig5	18	Fault Detection Filter for T-S Fuzzy Time-delay Systems Base on LMI	武狄 and 康维新	China
Sig6	25	The Initial Robustness Analysis of Designed U-Pole Placement Control Systems	Yuan Peng, Xin Liu, Quanmin Zhu, Fengxia Xu and Dongya Zhao	China
Sig7	50	Subprime H Robust Controller Design of the Networked Control Systems	Xu Fengxia, Tian Qunhong, Zhang Jinfeng and Lu Zhongda	China
Sig8	76	System Analysis and Design using Consolidity Theory with Applications	Ahmed Saleh, Amr Saleh and Hassen Dorrah	Egypt
Sig9	85	A Controller Design of MIMO System Using Matrix Singular Value	Xi Chuhao, Wang Yongji and Ni Shaobo	China