

16th IBCAST 2019: Control & Signal Processing

8-12 January 2019

Technical Program

Updated on:
December 31, 2018

	0930 – 1110		1130 – 1250			1400 – 1630								
Day-1 January 08, 2019 Tuesday	REGISTRATION				H C N C L	Invited Talk	Control-I							
						Prof. Wang Bo BIT, China	19CSP 207	19CSP 407	19CSP 450	19CSP 520				
Day-2 January 9, 2019 Wednesday	Signal Processing-I		Invited Talk	SP-II		Signal Processing-III								
	19CSP 778	19CSP 154	19CSP 188	19CSP 350	19CSP 361	Prof. Wang Bo BIT, China	19CSP 674	19CSP 408	19CSP 545	19CSP 805	19CSP 831	19CSP 394	19CSP 375	19CSP 164
Day-3 January 10, 2019 Thursday	Invited Talk		Control-II		T E A	Invited Talk	Multitopics-I							
	Dr. Vladimir Jazarevic Belgrade, Serbia	Dr. Wang Jianan BIT, China	19CSP 541	19CSP 753		19CSP 648	19CSP 860	Dr. Vladimir Jazarevic Belgrade, Serbia	19CSP 88	19CSP 649	19CSP 237	19CSP 206	19CSP 452	

Poster Presentations	Day-2: January 9, 2019 1100 – 1600								Day-3: January 10, 2019 1100 – 1600						
	CSP737	CSP25	CSP856	CSP429	CSP18	CSP496	CSP621	CSP717	CSP201	CSP286	CSP233	CSP183	CSP858	CSP 809	CSP603

Day 1: January 08, 2019

09:30-12:50	REGISTRATION	
12:50-14:00	LUNCH	
14:00 – 16:30 Control-I Chair: Dr. Wang Jianan	Key Technology of Rotational Inertial Navigation System	Prof. Wang Bo BIT, China
	19CSP207: Decimeter-level pseudo range differential positioning based on Hong Kong SatRef network	Hui Li Engineering University Harbin, China
	19CSP407: An Adaptive Flare Scheme for Autonomous Landing of a Fixed-Wing UAV	Hafiz Zeeshan Iqbal CESAT, Islamabad
	19CSP450: Design and Simulation of Range Enhancement of Reentry Vehicle	Khurrem Shahzad Sana Beihang University, Beijing China
	19CSP520: Iterative Guidance Scheme for Satellite Launch Vehicles	Fawad Farooq Ashraf IST, Islamabad

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Day 2: January 09, 2019

<p>9:30 – 11:00 Chair: Dr. Muhammad Ali Ch. CESAT, Islamabad</p>	19CSP 778: Event Related Potential (ERP) based Lie Detection using a Wearable EEG headset	Syed Anwar UET, Taxila
	19CSP 154: A Triaxial Acceleration-based Human Motion Detection for Ambient Smart Home System	Ahmad Jalal Air University, Islamabad
	19CSP 188: Multi-features descriptors for Human Activity Tracking and Recognition in Indoor-Outdoor Environments	Maria Mahmood Air University, Islamabad
	19CSP 350: Coordinated Target Assignment for Multi Spacecraft Telescopic Mission	Huma Rahman University of Central Punjab
	19CSP 361: Runway Detection using Pushbroom Hyperspectral Camera	Dr. Awais Akhtar CESAT, Islamabad
11:00 – 11:30	T E A	
<p>11:30 – 13:00 Signal Processing-I Chair: Dr. Rab Nawaz CESAT, Islamabad</p>	Progress in Gravity Aided Inertial Navigation System	
	19CSP 674: Time and Memory Efficient 3D Point Cloud Classification	Shan Ullah NUST-SEECS, Islamabad
13:00 – 14:00	LUNCH	
<p>14:00 – 16:30 Signal Processing-II Chair: Dr. Usman Qayyum CESAT, Islamabad</p>	19CSP408: Cooperative Guidance Laws for Flight of Multiple UAVs Using Arrival Time Control	Surrayya Mobeen IST, Islamabad
	19CSP 545: Efficient Task Allocation for Real-Time Partitioned Scheduling on Multi-Core Systems	Naveed Akram Beihang University, China
	19CSP 805: Design and VLSI Implementation of CSD based DA Architecture for 5/3 DWT	Syeda Eima Iftikhar MirPur University of Science and Tech
	19CSP 831: An Empirical Study of Image Resolution and Pose on Automatic Face Recognition	Faizan Munawar ECE, CUI Abbottabad
	19CSP 394: Novel Classification Technique for Hyperspectral Imaging using Multinomial Logistic Regression and Morphological Profiles with Composite Kernels	Syed Taimoor Hussain PIEAS, Islamabad
	19CSP 375: Coarsely Quantized Digital Correlators for Passive Millimeter Wave Imagers: A Hardware Perspective	Muhammad Asif Beihang University, Beijing China
	19CSP 164: Design and Simulation of Small Satellite Power System in Simulink / Matlab for Preliminary Performance Estimation	Azmat Sher UET, Lahore
19CSP 465: Verilog Code Generation Scheme from Signal	Hafiz M. Amjad Beihang University, China	

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Day 3: January 10, 2019

09:30 – 11:10 Invited Talks Chair: Prof. Wang Bo	UAV Autopilots, history, present, future	Dr. Vladimir Jazarevic Belgrade, Serbia
	Cooperative Control Theory and Applications of Multi-UAV Systems	Dr. Wang Jianan BIT, China
11:10 – 11:30	TEA	
11:30 – 12:50 Control-II Chair: Dr. Shakil Ahmed CESAT, Islamabad	19CSP541: Optimal and Robust Solutions for Longitudinal Flight Control of a Canard-Configured High Performance Aircraft	Fatima Shoaib IST, Islamabad
	19CSP753: PD Integrated Sliding Mode Controller design for Attitude Tracking Control of Rigid Body Spacecraft	UmairJavaid Beihang University, Beijing China
	19CSP648: Nonlinear Sliding Mode State Estimation Techniques for UAV Application	Zainab Akhtar COMSATS University, Islamabad, Lahore
	19CSP860: Second Order Sliding Mode based Control Scheme for Speed Tracking of Spark Ignition Engines	Raheel Anjum CUST, Islamabad
12:50 – 14:00	LUNCH	
14:00 – 16:30 Multi-topics-I Chair: Dr. Asif Mughal CESAT, Islamabad	Mathematical Modeling of Turbojet Engine and Design of Control	Dr. Vladimir Jazarevic Belgrade, Serbia
	19CSP 88: Comprehensive Modeling and Simulation of an Anthropomorphic Robotic Exoskeleton for Motion Rehabilitation	Muhammad Tallal Saeed Beihang University
	19CSP 649: Compliance Control of Robotic Walk Assist Device Via Integral Sliding Mode Control Scheme	Syed Humayoon Shah UET, Peshawar
	19CSP 237: Modeling and Analysis of Multi-Purpose Hybrid Surgical Robot	Haroon Khan Air University, Islamabad
	19CSP206: Dynamic operation and supervisory control of a photovoltaic/fuel cell/ super-capacitor/battery hybrid renewable energy system	Tariq Kamal Sakarya University
	19CSP452: Practical Implementation of Sensor Less Robust Control of Boost Converter	Muhammad Ashfaq CESAT, Islamabad

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Day 2: January 9, 2019

<p style="text-align: center;">Poster Presentations II 11:00 -16:00</p>	<p>19CSP737: Design & Implementation of Micro Controller based Monitoring and Control System for Current, Voltage, Frequency and Phase of three phased AC supply.</p>	<p>Faisal Zahid CESAT, Islamabad</p>
	<p>19CSP25: Smart Weather Alert System for Dwellers of Different Areas.</p>	<p>Areeha Durrani Pakistan Oxygen Limited</p>
	<p>19CSP856: Improved Model Predictive Current Control with Duty Cycle for Permanent Magnet Synchronous Motor Drives</p>	<p>M. Kashif Nawaz Northwestern Polytech Uni, China</p>
	<p>19CSP429: Simulation methodology of DDR2 interface with TI Processor and timing verification in HyperLynx</p>	<p>Syeda Shah CESAT, Islamabad</p>
	<p>19CSP18: Classification of Histopathological Images using Deep Learning for Breast Cancer</p>	<p>Hafiz Mughees Ahmad IST, Islamabad</p>
	<p>19CSP496: Performance Comparison of NARX & RNN-LSTM Neural networks for LiFePO4 Battery State of Charge Estimation</p>	<p>Ghulam Abbas CESAT, Islamabad</p>
	<p>19CSP621: Optical Character Recognition Based Intelligent Database Management System for Examination Process Control</p>	<p>Syed Mehdi NED, UET, Karachi</p>
	<p>19CSP717: A High Speed, Resource Efficient Approximation to Softmax Loss Function</p>	<p>M. Bilal Babar CESAT, Islamabad</p>
<p>19CSP201: PIC Microcontroller based Power Factor Correction for both Leading and Lagging Loads using compensation method</p>	<p>Faaz Ahsan Air University , Islamabad</p>	

Day 3: January 10 2019

<p style="text-align: center;">Poster Presentations I 11:00-16:00</p>	<p>19CSP286: Proactive Control of Hybrid Electric Vehicles for Maximum Fuel Efficiency</p>	<p>Rida Gillani University of Central Punjab</p>
	<p>19CSP233: Digital Active Power Filter Controller Design for Current Harmonics in Power System</p>	<p>Asad Ullah UET, Taxila</p>
	<p>19CSP183: Comparative analysis of Different Control Techniques on Interleaved Boost Converter in Discrete Time Domain</p>	<p>Atif Mehmood UET Taxila</p>
	<p>19CSP858: Design and Development of a Computer Numeric Controlled 3D Printer, Laser Cutter and 2D Plotter all in one machine</p>	<p>Muhammad Ammar Khan IST, Islamabad</p>
	<p>19CSP809: Modeling of Robust Model Predictive Control for Position DC-Servomechanism System</p>	<p>Muhammad Jamshed Abbass1 Riphah International University Islamabad, Pakistan</p>
	<p>19CSP603: Design of Robust and Predictive Controller for Altitude Stabilization and Trajectory Tracking of a Quadcopter</p>	<p>B. Shaikh MUET</p>
	<p>19CSP46: Position & Attitude Control of an Aerial Robot (Quadrotor) With Intelligent PID and State feedback LQR Controller: A Comparative Approach</p>	<p>Muhammad Faisal Shehzad Qarshi University Lahore</p>