

15th IBCAST 2018: Control & Signal Processing

9-13 January 2018

Technical Program

Conducted

Updated on:
January 15, 2018

	0930 – 1100		1130 – 1300			1400 – 1630										
Day-1 January 09, 2018 Tuesday	REGISTRATION					Invited Talks										
					Prof. Feng Qiao SJZU, China	Prof. Metin DEMIRTAS BU, Turkey	Prof. Hesheng Wang SJTU, China									
Day-2 January 10, 2018 Wednesday	Invited Talks		Control-I			Control-II										
	Prof. Feng Qiao SJZU, China	Prof. Metin DEMIRTAS BU, Turkey	TEA	18CSP 528	18CSP 083	18CSP 045	18CSP 191	18CSP 439	18CSP 238	18CSP 595	18CSP 580 No Show	18CSP 551	18CSP 518 No Show	18CSP 107	18CSP 056	18CSP 624
Day-3 January 11, 2018 Thursday	Invited Talk		Signal Processing-I			Video Talk		Signal Processing-II								
	Prof. Jon Kim Australia	18CSP 328	18CSP 510	TEA	18CSP 384 No Show	18CSP 257	18CSP 061	18CSP 600	18CSP 179	Prof. Adrian Olaru Romania	18CSP 610	18CSP 440	18CSP 596	18CSP 590	18CSP 138	18CSP 245

Poster Presentations	Day-2: January 10, 2018 1100 – 1600						Day-3: January 11, 2018 1100 – 1600					
	18CSP 437	18CSP 454 No Show	18CSP 585 No Show	18CSP 498 No Show	18CSP 603	18CSP 604 No Show	18CSP 183 No Show	18CSP 533 No Show	18CSP 458 No Show	18CSP 461 No Show	18CSP 256	18CSP 265 No Show

Day 1: January 9, 2018

09:30-13:00	REGISTRATION	
13:00-14:00	LUNCH	
14:00-16:30 Invited Talks Chair: Dr. Qaisar Ahsan Deputy Program Coordinator	Modelling and Simulation in Physical & Engineering Processes	Prof. Feng Qiao SJZU, China
	Electronic Device Design for the Measurement in the Contactless Environment and Applications	Prof. Metin DEMIRTAS BU, Balikesir, Turkey
	Visual Servoing of Robots	Prof. Hesheng Wang SJTU, China

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Day 2: January 10, 2018

09:30 – 11:00 Invited Talks Chair: Dr. Asif M. Mughal CESAT, Islamabad	Modelling and Simulation – Practice and Application	Prof. Feng Qiao SJZU, China
	Voltage and Frequency Control of a Self-excited Induction Generator with Controlled Inductive Reactor by using Super-twisting Sliding Mode	Prof. Metin DEMIRTAS BU, Turkey
11:00 – 11:30	TEA	
11:30 – 13:00 Control-I Chair: Dr. Mukhtar Ali CESAT, Islamabad	18CSP528: Disturbance Observer Based Back-stepping MIMO Control Design for a Marine Vessel in the Presence of Input Saturation and External Disturbance	Muhammad Ejaz NUAU, Nanjing, China
	18CSP083: On Control Law Partitioning for Nonlinear Control of a Quadrotor UAV	Ghulam Farid HEU, Harbin, China
	18CSP045: Steady State Drifting Controller for Vehicles Travelling in Reverse Direction	M. Arshad Khan GNU, Jinju, South Korea
	18CSP191: Robust Control for an Over actuated Autonomous Underwater Vehicle	Hafiz Zeeshan Iqbal CESAT, Islamabad
	18CSP439: Sampled-data robust feedback linearization using higher order sliding mode observer	Asim Zaheer NUST, Islamabad
	18CSP238: Design of momentum LMS algorithm for control autoregressive autoregressive systems	Hafiz Mateen Ahmed UoL, Islamabad
13:00 – 14:00	LUNCH	
00 – 16:30 Control-II Chair: Dr. Ijaz Kazmi CESAT, Islamabad	18CSP595: Mixed Sensitivity H_{∞} Controller Design for Force Tracking Control of Electro-hydraulic Servo System	Yasir Ali Khan UET Taxila
	18CSP580: Adaptive Quantized Control for Multivariable Nonlinear Systems with Hysteretic Actuators	Wakeel Khan BUAA, Beijing, China
	18CSP551: Super Twisting Control Algorithm for Blood Glucose Regulation in Type 1 Diabetes Patients	Sayyar Ahmad GKI, Swabi
	18CSP518: Discrete Time Sampled Data Stabilization of Inverted Pendulum on a Cart using Sliding Mode Observer and Controller	Nigar Ahmed NUAU, Nanjing, China
	18CSP107: Real time benefits of fixed lag smoothing for multi-target tracking and interception system	Gul Hameed Khan CIIT, Abbottabad
	18CSP056: Small UAV Localization Based Strong Tracking Kalman Filter Augmented with Interacting Multiple Model	Mostafa Elzoghby BUAA, Beijing, China
	18CSP624: Research on an Autonomously Tightly Integrated Positioning Method for UAV in Sparse-feature Indoor Environment	Cheng Yuan NUAU, Nanjing, China

No Show

No Show

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9:30 – 11:00 Chair: Dr. Yasar Ayaz NUST, Islamabad	Localization and Mapping for Aerial Vehicles	Prof. Jon Kim Australia
	18CSP328: Thermal Colorization using Deep Neural Network	Dr. Usman Qayyum CESAT, Islamabad
	18CSP510: Optimization of Bottom-up Saliency Detection through Gram Polynomial Decimation	Adil Jaleel Ch. NUST, Islamabad
11:00 – 11:30	T E A	
11:30 – 13:00 Signal Processing-I Chair: Dr. Zareena Kausar Air University, Islamabad	18CSP384: Recovering High Quality Music with Over complete Dictionary Pair Based on Sparsity Prior	Lianqiang Li SJTU China
	18CSP257: Empirical Mode Decomposition (EMD) as a tool for noise reduction for T Wave Alternant analysis	Ehsan Ullah Abbassi UET, Taxila
	18CSP061: Automatic detection of plant diseases; utilizing an unsupervised cascaded design	Zia Ullah Khan CESAT, Islamabad
	18CSP600: FPGA Implementation of a Sensor-less Speed Control Architecture for the PMDC motor	Farooq Alam NUST, Pakistan
	18CSP179: A Knowledge-Based Technique for Robust Recognition of Bridges in FLIR Imagery	M. Ali Abdil Aziz CESAT, Islamabad
13:00 – 14:00	LUNCH	
14:00 – 16:30 Signal Processing-II Chair: Dr. Asifullah PIEAS, Islamabad	Optimization in Robotics by using LabVIEW Instrumentation (Video-talk)	Prof. Adrian Olaru Romania
	18CSP610: Hybrid Methodology for Multimodal Optimization	Syed Ali Abbas CUST, Islamabad
	18CSP440: Smart Thoughts: BCI Based System Implementation to Detect Motor Imagery Movements	Ikram Mustafa CESAT, Islamabad
	18CSP596: Aiding Biometric System based on Fingerprint Enhancement and Matching	Mubeen Sabir CIIT, Islamabad
	18CSP590: Sound Event Detection in Real Life Audio using Perceptual Linear Predictive Feature with Neural Network	Khizer Feroze IST, Islamabad
	18CSP138: Influence of Electromagnetic Stiffness on Coupled Dynamic Performance of Flexible Load Driven by Solar Array Drive Assembly	Mariyam Sattar BUAA, Beijing, China
	18CSP245: Low Power 4×4 Bit Multiplier Design using Dadda Algorithm and Optimized Full Adder	M. Hussnain Riaz UET, Lahore
	18CSP363: Magnetic Equivalent Circuit Models using Global Reluctance Networks Methodology for Design of Permanent Magnet Flux Switching Machine	Faisal Khan CIIT, Abbottabad

No Show

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Day 2: January 10, 2018

<p style="text-align: center;">Poster Presentations I 11:00-16:00</p>	<p>18CSP437: Multiple Model Moving Window Fault Tolerant Control for Surface Vessels</p>	<p>Ali Nasir UC Punjab</p>	
	<p>18CSP454: Adaptive Synchronization of Chaotic Systems with Nonlinear Coupling</p>	<p>Muntazir Hussain PIEAS Islamabad</p>	No Show
	<p>18CSP585: Fault tolerant control of uncertain networked predictive control systems against actuator or sensor failure</p>	<p>Ji Zhang BIT, China</p>	No Show
	<p>18CSP498: Smooth Super-Twisting Sliding Mode Control of a Class of Under actuated Mechanical Systems</p>	<p>Ibrahim Shah CUST, Islamabad</p>	No Show
	<p>18CSP603: A Quarter Car Passive Suspension System Control Design</p>	<p>Waqas Minhas UET, Taxila</p>	
	<p>18CSP604: Fault tolerant control of dissimilar redundant actuation system under actuator failure due to vertical tail damage</p>	<p>Salman Ijaz Beihang University, China</p>	No Show

Day 3: January 11 2018

<p style="text-align: center;">Poster Presentations II 11:00 -16:00</p>	<p>18CSP183: Modelling, Simulation, Design and Fabrication of a novel Single Rotor Unmanned Aerial Vehicle (SR-UAV)</p>	<p>Abdul Basit Zia GIK, Swabi</p>	No Show
	<p>18CSP533: Comparison of Single Axis and Dual Axis Tracker Controlled with Fixed Tilt Solar Power System</p>	<p>Raja Sami Ullah CESAT, Islamabad</p>	No Show
	<p>18CSP458: Fuel Requirements for Deorbiting of Spacecraft in Compliance with International Guidelines</p>	<p>Dabeer Akhtar SUPARCO, Karachi</p>	No Show
	<p>18CSP461: Navigation Error Analysis Tool (NEAT)</p>	<p>M. Naeem Akhtar SUPARCO, Karachi</p>	No Show
	<p>18CSP256: Design & Implementation of Micro Controller based Monitoring and Control System for Current, Voltage, Frequency and Phase of three phase AC supply</p>	<p>Faisal Zahid MSL, Pakistan</p>	
	<p>18CSP265: CRT Based Spectral Convolution in Binary Fields Cheng Yuan</p>	<p>Muhammad Sudozai NUST, Pakistan</p>	No Show