

15th IBCAST 2018: Control & Signal Processing

9-13 January 2018

Technical Program

Overview

Updated on:
January 1, 2018

	0930 – 1100		1130 – 1300			1400 – 1630		
Day-1 January 09, 2018 Tuesday	REGISTRATION				L U N C H	Invited Talks		
	Prof. Feng Qiao SJZU, China		Prof. Metin DEMIRTAS BU, Turkey			Prof. Hesheng Wang SJTU, China		
	Control-I					Control-II		
Day-2 January 10, 2018 Wednesday	Invited Talks		TEA	18CSP 528		18CSP 595		
	Prof. Feng Qiao SJZU, China			18CSP 083		18CSP 580		
	Prof. Metin DEMIRTAS BU, Turkey			18CSP 045		18CSP 551		
	18CSP 191		18CSP 439		18CSP 518			
	18CSP 238		18CSP 107		18CSP 056			
	18CSP 624		18CSP 179		18CSP 363			
Day-3 January 11, 2018 Thursday	Invited Talk		Signal Processing-I				Signal Processing-II	
	Prof. Jon Kim Australia		18CSP 384		18CSP 440		18CSP 596	
	18CSP 328		18CSP 257		18CSP 600		18CSP 590	
	18CSP 510		18CSP 061		18CSP 138		18CSP 245	
	TEA		18CSP 600		18CSP 179		18CSP 363	
	Prof. Adrian Olaru Romania		18CSP 610		18CSP 440		18CSP 596	
	18CSP 610		18CSP 440		18CSP 596		18CSP 590	
	18CSP 440		18CSP 596		18CSP 590		18CSP 138	
	18CSP 596		18CSP 590		18CSP 138		18CSP 245	
	18CSP 590		18CSP 138		18CSP 245		18CSP 363	

	1100 – 1600					
	Poster Presentations					
Day-2 January 10, 2018	18CSP 437	18CSP 454	18CSP 585	18CSP 498	18CSP 603	18CSP 604
Day-3 January 11, 2018	18CSP 183	18CSP 533	18CSP 458	18CSP 461	18CSP 256	18CSP 265

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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 NUAA, 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	M. Asif Zahoor Raja CIIT, Attock
13:00 – 14:00	LUNCH	

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14:00 – 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	Salman Ijaz BUAA, Beijing, China
	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 NUAA, 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 NUAA, Nanjing, China

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Day 3: January 11, 2018

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 Abbasi 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	Danish Shahzad CESAT, Islamabad
13:00 – 14:00	LUNCH	

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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	Noman Ullah CIIT, Abbottabad

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Poster Presentations I 11:00-16:00	18CSP437: Multiple Model Moving Window Fault Tolerant Control for Surface Vessels	Ali Nasir UC Punjab
	18CSP454: Adaptive Synchronization of Chaotic Systems with Nonlinear Coupling	Muntazir Hussain PIEAS Islamabad
	18CSP585: Fault tolerant control of uncertain networked predictive control systems against actuator or sensor failure	Ji Zhang BIT, China
	18CSP498: Smooth Super-Twisting Sliding Mode Control of a Class of Under actuated Mechanical Systems	Ibrahim Shah CUST, Islamabad
	18CSP603: A Quarter Car Passive Suspension System Control Design	Waqas Minhas UET, Taxila
	18CSP604: Fault tolerant control of dissimilar redundant actuation system under actuator failure due to vertical tail damage	Salman Ijaz Beihang University, China

Day 3: January 11 2018

Poster Presentations II 11:00 -16:00	18CSP183: Modelling, Simulation, Design and Fabrication of a novel Single Rotor Unmanned Aerial Vehicle (SR-UAV)	Abdul Basit Zia GIK, Swabi
	18CSP533: Comparison of Single Axis and Dual Axis Tracker Controlled with Fixed Tilt Solar Power System	Raja Sami Ullah CESAT, Islamabad
	18CSP458: Fuel Requirements for Deorbiting of Spacecraft in Compliance with International Guidelines	Dabeer Akhtar SUPARCO, Karachi
	18CSP461: Navigation Error Analysis Tool (NEAT)	M. Naeem Akhtar SUPARCO, Karachi
	18CSP256: Design & Implementation of Micro Controller based Monitoring and Control System for Current, Voltage, Frequency and Phase of three phase AC supply	Faisal Zahid MSL, Pakistan
	18CSP265: CRT Based Spectral Convolution in Binary Fields Cheng Yuan	Muhammad Sudozai NUST, Pakistan