

Updated on: Aug 07, 2024

#### 20-23 August 2024

	0900 – 1030	1100 – 1230	1400 – 1530	1600 – 1715 1730 – 1845	
Day-1 August 20, 2024 Tuesday			REGISTRATION	1.1: Control Systems -I  Invited Talk: Prof. Liang Guozhu BUAA, China  1.2: Control Systems-II  Invited Talk: Dr. Mien Van Queen's Uni, Belfast, UK  Belfast, UK	
	2.1: Control Systems-III	2.2: Control and Autonomy	2.3: Multi-Agents Systems Control	T 2.4: Power Systems E A Control K	
Day-2 August 21, 2024 Wednesday	Baber # 284   Dr. Qadeer Ahmed   Ohio State Unit USA   Unvited Talk:	B London, UK	V N *Invited Talk*: Prof. Hyungbo Shim Seoul National Uni, S. Korea    B	B R B B B B B B B B B B B B B B B B B B	
	3.1: Signal Processing-II	Processing-II E 3.2: Signal Processing-III E A 3.3: Signal Processing-IV		3.4: Multi-Topic	
Day-3 August 22, 2024 Thursday	Baber # 402    Saper # 403   Saper # 403   Prof. Ahmed Fauzi	K Invited Talk: Prof. Nabil Aouf City Uni. of London, UK  K Invited Talk: Prof. Nabil Aouf City Uni. of London, UK	K Workshop	Invited Talk: Dr. Weng Jing Nong BUAA, China	
Day-4 August 23, 2024 Friday		CLOSING CEREMONY	DEPARTURE TO ISLAMABAD		





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Day 1: August 20, 2024						
14:00 - 15:30	Registration					
15:30 - 16:00	TEA BREAK					
16:00 - 17:15	Session 1.1: Control Systems-I Session Chair:					
16:00-16:45	Invited Talk: High-altitude Simulation Test Facility for Attitude and Orbit Control Liquid Engines		Prof. Liang Guozhu BUAA, China			
21CSP 243	Performance Analysis of Model Predictive Controller for Active Cell Balancing of Electric Vehicle Battery		Ali Arshad Uppal COMSATS, Islamabad			
21CSP 443	Voltage Control in Electric Vehicle Integrated Active Distribution Networks: A Review		Mohsin Atta <b>UET, Taxila</b>			
17:15 - 17:30	BF					
17:30 - 18:45	Session 1.2: Control Systems-II Session Chair:					
16:45-17:30	Invited Talk: Real Time Reconfiguration and Connectivity maintain for AUVs Network Under External Disturbances using Distributed Nonlinear Model Predictive Control		Dr. Mien Van Queen's University, Belfast, UK			
21CSP 361	Machine Learning-Based Robust Control Solution for Buck Converters: ANN and Fuzzy Logic Methods		Laksh Rathi <b>GIKI, Sawabi</b>			
21CSP 202	Experimental Verification of Rotating Sliding Mode Control with Composite Reaching Law Approach for Voltage Source Inverters		Faheem Haroon Bahria University, Islamabad			



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Day 2. Avenue 24, 2024						
	Day 2: August 21, 2024					
09:00 - 10:30	Session 2.1: Control Systems-III	Chair:				
21CSP 205	Dynamic Inversion Based Higher Order Model Reference Adaptive Control of Sca	Fawad Farooq Ashraf  Beihang University, China				
21CSP 428	Accuracy Enhancing Time Limited Model Reduction Framework: Comput	M. Latif, NUST, Islamabad				
21CSP 284	Comparative Study of Pole Placement and Linear Quadratic Controlle	r for Above knee Prosthetic Leg	M. Arqam Razzaq, <b>Uni. of Chakwal</b>			
09:45- 10:30	Invited Talk: Safety in Dynamical Systems using Control	Dr. Qadeer Ahmed Ohio State University, USA				
10:30 - 11:00	TEA					
11:00 - 12:30	Session 2.2: Control and Autonomy	Chair:				
11:00 -11:45	Invited Talk: Research on Perception, Guidance, Navigation and Control (PG	Prof. Nabil Aouf City University of London, UK				
21CSP 244	Spacecraft Dynamics Linearizing and Optimal Control Based on Optimal Control Based Opt	Biyogo Nchama Vicente Angel Obama,  Beihang University, China				
21CSP 371	Guidance and Control of a Spinning 155mm Artillery Shell using Vector Forn	M. Haris Rehman, CESAT, Islamabad				
21CSP 348	Dynamic Stability Analysis of Spin-Stabilized P	Ali Raza, CESAT, Islamabad				
12:30 - 14:00	LUNCH BREAK					
14:00 - 15:30	Session 2.3: Multi Agents Systems Control Chair: <u>Dr. Ghulam Mu</u>		ustafa, PIEAS			
14:00-14:45	Invited Talk: Coordination of Heterogeneous Multi Agent System		Prof. Hyungbo Shim Seoul National University, S. Korea			
14:45-15:30	Invited Talk: Learning and Digital Twins Based Critical Control	Dr. Mien Van Queen's University, Belfast, UK				
15:30 - 16:00	TEA BREAK		· ·			
16:00 - 17:15	Session 2.4: Power Systems Control Chair:					
21CSP 418	Adaptive Observer Based Output Voltage-Tracking Control of DC-DC Boost Converter		Adil Zohaib <b>Riphah Uni, Islamabad</b>			
21CSP 53	Robust Battery Management System for UAV Applications		M. Sufyan Arshad, CESAT, Islamabad			
21CSP 339	Genetic Algorithm-Based Load Balancing for Affective Demand Response with Renew	Maria Ashraf, NUST, Islamabad				
21CSP 86	Advance Power System Optimization: Evaluation of Automatic Generation Control Techniques in Two-Area Networks		Shazil Ejaz, <b>GIKI, Sawabi</b>			
21CSP 226	Robust Hierarchical Control Design and Implementation for the H	Arsalan Rehmat, <b>NUST</b> , <b>Islamabad</b>				
17:15 - 17:30	BF					
17:30 - 18:45	Session 2.5: Signal Processing-I Chair:					
17:30-18:15	Invited Talk: Evaluation of Feature Extraction and Selection	Prof. Ahmed Fauzi Multimedia University, Malaysia				
21CSP 456	Analysis of Two Three Axis Magnetometer for Indoor and Out Door Ge	S. Riaz un Nabi Jafri, <b>NEDUET, Karachi</b>				
21CSP 35	Minimizing Soil Mineralization Effect in Pulse Induced Metal Detector through Adap Metal Contents	M. Asad Bukhari, CESAT, Islamabad				



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Day 3: August 22, 2024					
09:00 - 10:30	Session 3.1: Signal Processing-II Chair:				
21CSP 405	A Smart and Sustainable On the Move Charging Solution for AEV/EV		Hafiz M. Mehdi, <b>NUST, Islamabad</b>		
21CSP 239	Enhance Camouflaged Object Detection for Agriculture Pest Management: Insid	Syed Muhammad Hussain, <b>Habib</b> University, Karachi			
21CSP 429	Enhancing Agricultural Productivity: A Sensor Fusion, Spectroscopic near Infrared Ripeness	Hira Ambreen, Sir Syed CASE Institute of Technology, Islamabad			
09:45-10:30	Invited Talk: Traditional and CNN-based Feature Descriptors		Prof. Ahmed Fauzi Multimedia University, Malaysia		
10:30 - 11:00	TEA				
11:00 - 12:30	Session 3.2: Signal Processing-III	Chair:			
11:00-11:45	Invited Talk: Adversarial Attacks Detection and Mitigation for Deep Learning-based Autonomous Vehicle		Prof. Nabil Aouf City University of London, UK		
21CSP 38	FVDCLS: Functional Verification of RISC-V Based Dual Core Lock Step Feat	M. Kashif Minhas, CESAT, Islamabad			
21CSP 79	Integration of Bit Manipulation Extension in the SweRV EH1 Core of RISC-V Proce	Samina Yasmeen, Center of Al and Big Data			
21CSP 319	FPGA-Enabled Rapid Prototyping of Isolated Bidirectional Full Bridge DC-DC Converter Control for Electric Vehicle Application		Syed Jahania Shah, <b>Habib University,</b> <b>Karachi</b>		
12:30 - 14:00	LUNCH BREAK				
14:00 - 15:30	Session 3.3: Signal Processing-IV	Session 3.3: Signal Processing-IV Chair:			
21CSP 88	Enhancing the UAV Localization Accuracy by Removing False Matches Using Affine Consistency		Muhammad Abrar Qureshi, <b>CESAT</b> , Islamabad		
14:15-15:30	Workshop: Empowering Drones with Pixhawk: A Dive into Autopilot Systems		Prof. M. Haroon Yousaf UET, Taxila		
15:30 - 16:00	TEA BREAK				
16:00 - 17:15	Session 3.4: Multi-Topics	Chair:			
16:00-17:15	Invited Talk: Reform and Innovation in Higher Engineering Education in the New Era		Dr. Weng Jing Nong BUAA, China		