

19th IBCAST 2022: Control & Signal Processing
 16-19 August 2022
 Tentative Technical Program

Updated on:
August 04, 2022

	900 – 1030		1100 – 1240		1400 – 1530		1600 – 1730
Day-1 August 16, 2022 Tuesday	REGISTRATION			L U N C H B R E A K	Invited Talk	Control-I	Control-II
					Prof. Seref N. Engin YTU , Istanbul Turkey	Paper 94 Paper 73	Paper 549 Paper 653 Paper 639 Paper 513 Paper 633 Paper 545
Day-2 August 17, 2022 Wednesday	Control-III	T E A B R E A K	Invited Talks	L U N C H B R E A K	Invited Talks	Control-IV	
	Paper 730 Paper 627 Paper 646 Paper 654 Paper 747 Paper 396		Prof. Jian Huang US&T, Beijing, China		Dr. Iftikhar Ahmed NUST, Islamabad	Prof. Vaios Lappas N&KU, Athens, Greece	Prof. Seref N. Engin YTU , Istanbul Turkey
Day-3 August 18, 2022 Thursday	Signal Processing-I	T E A B R E A K	Invited Talks	L U N C H B R E A K	Signal Processing-II	Signal Processing-III	
	Paper 58 Paper 79 Paper 774 Paper 296 Paper 595 Paper 499		Dr. Arif Mehmood ITU, Pakistan		Dr. Athanasios Kapoutsis CERTH , Greece	Paper 46 Paper 244 Paper 284 Paper 221	Machine Learning on Edge Devices Dr. Murtaza Taj Dr. Mian Muhammad Awais LUMS, Pakistan
Day-4 August 19, 2022 Friday	Control-V	T E A B R E A K	Closing Ceremony	L U N C H B R E A K	Departure to Islamabad		
	Paper 577 Paper 183 Paper 178 Paper 136 Paper 783 Paper 365						

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Day 1: August, 16 2022

9:00-12:40	REGISTRATION	
12:40-2:00	LUNCH BREAK	
Control I 2:00-3:30 Chair Dr. Amir Iqbal Bhatti CUST, Islamabad	Fault Tolerant Gain-scheduling Control Laws Application to a Passenger Aircraft.	Prof. Seref N. Engin Yildiz Technical University, Istanbul, Turkey
	22CSP 94 : Geometrization of Linearization-Based control Laws on the unit circle	M. Farooq Aslam (Presenter) IST, Islamabad Hafiz M. Zeeshan (CESAT)
	22CSP 73 : Integral Nonlinear Dynamic Inversion based control of Input-derivative Affine System	Surraya Mobeen (Presenter) IST, Islamabad Hafiz M. Zeeshan (CESAT)
3:30-4:00	TEA BREAK	
Control II 4:00-5:30 Chair Dr. Shakil Ahmed CESAT, Islamabad	22CSP 549 : Speed Control of direct Torque Control Induction Motor drive Using Fuzzy Adaptive PID Controller	M. Umer UET, Taxila
	22CSP 653 : Speed & Thermal Analysis of High Speed Permanent Magnet Synchronous Motor for Electric Vehicle	Qasim Kazmi Air University, Islamabad
	22CSP 639 : Adaptive Cruise Control for Ground Vehicles using Control Barrier Function Under Weather Based Surface Conditions	Faheem Gulzar CUST, Islamabad
	22CSP 513 : Estimation of Real-Time wheeled mobile Robot (Differential Drive) Motion & Pose with Obstacle Avoidance	M. Farrukh Qureshi Ripah International University, Islamabad
	22CSP 633 : Eco-driving Control of Electric Vehicle with Traffic Signal and Battery Dynamic Model	Muhammad Yasir Naeem CUST, Islamabad
	22CSP 545 : : Automatic Control of Hybrid Solar Cell & Diesel Power Distribution System	Faizan Ahmed Air University, Islamabad

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Day 2: August, 17 2022

<p style="text-align: center;">Control III 9:00-10:30 Chair Dr. Ghulam Mustafa PIEAS, Islamabad</p>	22CSP 730 : An Improved Hybrid DC Circuit Breaker with Battery Banks for Energy Storage in HVDC System	Qumrsh Arooj CUST, Islamabad
	22CSP 627 : Flexibility Based Coordination Framework for Three- Level Energy Management System	Sadam Hussain Concordia Uni. Montreal Canada
	22CSP 646 : Optimized Dual Loop Control Strategy for Grid-Connected Interleaved Inverters	Abdul Mateen PIEAS, Islamabad
	22CSP 654 : Effect of Uncoordinated Electric Vehicle Charging on a Distribution Network	Ahmed Usman Habib University
	22CSP 747 : Converter Control for Photovoltaic Power Generation	Khalid Mehmood Fatima Jinnah Women University.
	22CSP 396 : Approximation of Large Scale System using Equivalent-Norm Frequency Selected Projection	Rahila Malik MUST Mirpur Pakistan
10:30-11:00 TEA BREAK		
<p style="text-align: center;">11:00-12:40 Chair Prof. Seref N. Engin YTU , Istanbul Turkey</p>	Data-Driven Fault Detection for Large- Scale Industrial Process: A Distributed Framework.	Prof. Jiang Huang, US&T, Beijing,, China
	Robust Non-Linear Control of Fuel Cell based Plug in Hybrid Electric Vehicles.	Dr. Iftikhar Ahmed NUST, Islamabad
12:40-2:00 LUNCH BREAK		
<p style="text-align: center;">2:00-3:30 Chair Dr. S. A. Pasha Air University, Islamabad</p>	Autonomy in Aero Space.	Prof. Vaios Lappas N&KU, Athens, Greece
	Internet of Things and Related Technologies.	Prof. Seref N. Engin YTU , Istanbul Turkey
3:30-4:00 TEA BREAK		
<p style="text-align: center;">Control IV 4:00-5:30 Chair Dr. Asif Mughal CESAT, Islamabad</p>	22CSP 78 : Active Disturbance Rejection Control of a Quadrotor : a Comparative Study	M. Adeel Ahsen CESAT, Islamabad
	22CSP 720 : Fault-Tolerant Control of Fighter Aircraft using MPC	Muhammad Faheem CUST, Islamabad
	22CSP 3 : Feasibility Analysis of Numerical Integration Techniques in Onboard Flight Control Computer for Impact Point Prediction	Fawad Farooq Ashraf CESAT, Islamabad
	22CSP 780 : GNSS Fault Detection & Exclusion Algorithm for Single Frequency Receivers	Sunnyaha Saeed IST, Islamabad
	22CSP 67 : Simulation Based Analysis of True North Seeking Techniques	Muhammad Ibbtisam Asim IST, Islamabad
	22CSP 2 : Iterative Guidance Scheme for a Satellite Launch Vehicle along a Three-Dimensional Trajectory	Fawad Farooq Ashraf CESAT, Islamabad

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<p style="text-align: center;">SP I 9:00-10:30 Chair Dr. M. Akmal Ripah Intl. University, Islamabad</p>	22CSP 58 : Approximate Multiplier Based on Low Power 4:2 Compressor for Error Tolerant Application	<p style="text-align: center;">Muhammad Abdullah Rizwan CESAT, Islamabad</p>
	22CSP 79 : Convex & Nonconvex Approaches for the Matrix Completion Problem	<p style="text-align: center;">Ghulam Nabi Ahmed Air University, Islamabad</p>
	22CSP 774 : Cooperative Search Strategy of Multiple UAVs Based on Matrix Game	<p style="text-align: center;">Song Dalei Shenyang University of Technology</p>
	22CSP 296 : An Educational Platform for Testing & Evaluating Satellite Control Algorithm in Real Time and Frictionless Environment	<p style="text-align: center;">Muhammad Kamran Saleem UCP, Lahore</p>
	22CSP 595 : Modeling & Identification of Power Forecasting Scheme for Real PV System using Grey Box Neural Network Based NARMAX Model	<p style="text-align: center;">Khubab Ahmed CESAT, Islamabad</p>
	22CSP 499 : Building 3-D Perception Model around Moving Vehicle Using Laser and Vision Information	<p style="text-align: center;">Syed Riaz Un Nabi Jafri NEDUET</p>
10:30-11:00 TEA BREAK		
<p style="text-align: center;">SP II 11:00-12:40 Chair Dr. Jamshed Riaz IST, Islamabad</p>	An Overview of Neural Information Fusion.	<p style="text-align: center;">Dr. Arif Mehmood ITU, Lahore</p>
	Multi Robot coverage path planning to Unlock cooperative swarm of UAVs.	<p style="text-align: center;">Dr. Athanasios Kapoutsis CERTH, Greece</p>
12:40-2:00 LUNCH BREAK		
<p style="text-align: center;">SP III 2:00-3:30 Chair Dr. Gulistan Raja UET, Taxila</p>	22CSP 46 : Fast Sparse Magnetic Resonance Image Reconstruction	<p style="text-align: center;">Maimoona Siddiq Air University</p>
	22CSP 244 : Multi- model Face Anti-spoofing Transformer (MFAST)	<p style="text-align: center;">Abraar Raza Samar (Presenter) FAST, Islamabad M. Adeel Mumtaz (CESAT)</p>
	22CSP 284 : Deep Network for Smart Precision Agriculture through Segmentation and Classification of Crops	<p style="text-align: center;">Abraar Ahmed Air University, Islamabad</p>
	22CSP 221 : Automatic Modulation Recognition using Convolutional Neural Networks	<p style="text-align: center;">M. Sabih Ul Qamar CESAT, Islamabad</p>
3:30-4:00 TEA BREAK		
<p style="text-align: center;">4:00-5:30 Chair: Dr. Faisal Nadeem CUST, Islamabad</p>	Machine Learning on Edge Devices: Using edge AI to build early warning systems for different use cases.	<p style="text-align: center;">Dr. Murtaza Taj Dr. Mian Muhammad Awais LUMS , Pakistan</p>

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Control V 9:00-10:30 Chair Dr. Ijaz Kazmi CESAT, Islamabad	22CSP 577 : Investigation of Low Back Pain Using Fatigue Loading – A Review	Muhammad Farhan Khan UET, Taxila
	22CSP 183 : Automatic Anesthesia Depth Control System for Isoflurane Concentration	Akasha Mehr Air University, Islamabad
	22CSP 178 : Automatic PH Control for Anaerobic Bacteria of Wastewater Treatment of Paper & Pulp Industry	Usama Sarfaraz Air University, Islamabad
	22CSP 136 : Velocity Control using Torque Inputs to the Motor of a Textile Cross- lapper Machine	Abdullah Nadeem Air University, Islamabad
	22CSP 783 : Robust Hierarchical Non-linear Droop Control Design for the PV Based Islanded Micro Grid	Arslan Ahmed NUST, Islamabad
	22CSP 365 : Robust Optimal Control & Trajectory Tracking of an Unmanned Aerial Aquatic Vehicle(UAAV)	Umair Kamal CESAT, Islamabad
10:30-11:00	TEA BREAK	
11:00-12:40	CLOSING CEREMONY	
12:40-2:00	LUNCH BREAK	
2:00-5:30	DEPARTURE TO ISLAMABAD	