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**Kanpur, India
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Technical Program for Friday January 5, 2018

FrAT1		Outreach Auditorium
Networked Systems (Invited Session)		
Chair: Chopra, Nikhil		Univ. of Maryland, Coll. Park
Co-Chair: Swikir, Abdalla		Tech. Univ. München
Organizer: Chopra, Nikhil		Univ. of Maryland, Coll. Park
Organizer: Vaidya, Umesh		Iowa State Univ
10:30-10:50		FrAT1.1
<i>Weighted Kernel Deterministic Annealing: A Maximum-Entropy Principle Approach for Shape Clustering (I)</i> , pp. 1-6.		
Baranwal, Mayank		Univ. of Illinois
Salapaka, Srinivasa		Univ. of Illinois
10:50-11:10		FrAT1.2
<i>Interpretation of Complex Reaction Networks in Boolean Network Framework (I)</i> , pp. 7-11.		
Sutavani, Sarang		Veermata Jijabai Tech. Inst. Mumbai, India
Sarda, Kisan		Veermata Jijabai Tech. Inst. Mumbai, India
Yerudkar, Amol		Univ. OF SANNIO
Singh, Navdeep		Veermata Jijabai Tech. Inst
11:10-11:30		FrAT1.3
<i>Frequency Synchronisation of Islanded MicroGrids Using Robust Adaptation Over Lure Forms (I)</i> , pp. 12-17.		
Bajaria, Pratik		VEERMATA JIJABAI Tech. Inst. MUMBAI
Singh, Navdeep		Veermata Jijabai Tech. Inst
11:30-11:50		FrAT1.4
<i>Distributed Optimization Via Primal-Dual Gradient Dynamics with Stochastic Interactions (I)</i> , pp. 18-23.		
Nandanoori, Sai Pushpak		Iowa State Univ
Ebrahimi, Keivan		Iowa State Univ
Vaidya, Umesh		Iowa State Univ
11:50-12:10		FrAT1.5
<i>Observability-Based Secure State Encryption Design for Cyberphysical Systems (I)</i> , pp. 24-29.		
Dong, Yimeng		Univ. of Maryland, Coll. Park
Chopra, Nikhil		Univ. of Maryland, Coll. Park
12:10-12:30		FrAT1.6
<i>From Dissipativity Theory to Compositional Synthesis of Symbolic Models</i> , pp. 30-35.		
Swikir, Abdalla		Tech. Univ. München
Girard, Antoine		CNRS
Zamani, Majid		Tech. Univ. München
FrAT2		Seminar Room
Estimation (Regular Session)		
Chair: Sen, Shaunak		Indian Inst. of Tech. Delhi
Co-Chair: Singh, Arun Kant		Indian Inst. of Tech. Kanpur
10:30-10:50		FrAT2.1
<i>Cubature Quadrature Filter for One-Step Randomly Delayed Measurements</i> , pp. 36-41.		
Singh, Abhinoy Kumar		Indian Inst. of Tech
Bhaumik, Shovan		Indian Inst. of Tech. Patna
Kumar, Kundan		Indian Inst. of Tech. Patna
10:50-11:10		FrAT2.2
<i>A Stochastic Resampling Based Selective Particle Filter for Visual Object Tracking</i> , pp. 42-47.		
Khasnabish, Neilay		Mercedes Benz R&D India Pvt. Ltd
Detroja, Ketan		Indian Inst. of Tech. Hyderabad
11:10-11:30		FrAT2.3
<i>Design of Discrete-Time Kalman Filter Based Delay Compensator for Rhodium-103 SPND</i> , pp. 48-53.		
Mutneja, Tarun		Homi Bhabha National Inst

Bhatt, Tarang	Bhabha Atomic Res. Center
Tiwari, Akhilanand Pati	Bhabha Atomic Res. Centre
Jain, Sanjay	Nuclear Power Corp. of India Limited
Nathani, Kamlesh	Nuclear Power Corp. of India Limited
Sen, Sandip Kumar	Nuclear Power Corp. of India Limited

11:30-11:50 FrAT2.4

Low Complexity Block Distributed Kalman Filtering for Interacting Systems, pp. 54-58.

Kanagala, Subhash Babu	IIT Hyderabad
Detroja, Ketan	Indian Inst. of Tech. Hyderabad

11:50-12:10 FrAT2.5

Extended Kalman Filter Based Air Data System (ADS) Table Update for Fighter Aircraft, pp. 59-64.

Jain, Shikha	NAL
C, Kamali	National Aerospace Lab
N, Manikanta Babu	NATIONAL AEROSPACE Lab
Saraf, Amitabh	Aeronautical Development Agency

12:10-12:30 FrAT2.6

Real-Time Statistical Detection and Identification of Sensor Incipient Fault Using Kalman Filter, pp. 65-70.

Gautam, Suryakant	Homi Bhabha National Inst
Tamboli, Prakash K.	NPCIL
Patankar, Vaibhav H.	Bhabha Atomic Res. Centre (BARC)
Duttgupta, Siddhartha P	IIT Bombay
Roy, Kallol	BHAVINI

FrAT3	Video Conf. Room
Identification and Learning (Regular Session)	

Chair: Bhikkaji, Bharath	IIT Madras
Co-Chair: Challapalli, Niharika	Univ. of Texas, Dallas

10:30-10:50 FrAT3.1

Identification of Approximate Models for LTI Multiscale Systems, pp. 71-76.

Pinnamaraju, Vivek Shankar	Indian Inst. of Tech. Madras
Tangirala, Arun K.	Indian Inst. of Tech. Madras

10:50-11:10 FrAT3.2

Consistent Input/output Partitions in Acausal Systems, pp. 77-82.

Jha, Jitesh	IIT Bombay
Kumar, Sandeep	Indian Inst. of Tech. Bombay
Belur, Madhu N.	Indian Inst. of Tech. Bombay

11:10-11:30 FrAT3.3

A Fast Algorithm for Compressive Sensing Using Binary Measurement Matrices, pp. 83-88.

Lotfi, Mahsa	Univ. of Texas at Dallas
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas

11:30-11:50 FrAT3.4

A Reinforcement Learning Algorithm for Restless Bandits, pp. 89-94.

Borkar, Vivek S.	Tata Inst. of Fundamental Res
Chadha, Karan	IIT Bombay

11:50-12:10 FrAT3.5

Topology Identification of Sparse Networks of Continuous Time Systems, pp. 95-100.

Varanasi, Santhosh Kumar	Indian Inst. of Tech. Hyderabad
Jampana, Phanindra	IIT Hyderabad

12:10-12:30 FrAT3.6

On Amplitude-Timescale Constraints in a Pulse Generating Biomolecular Circuit, pp. 101-106.

Patel, Abhilash	Indian Inst. of Tech. Delhi
Sen, Shaunak	Indian Inst. of Tech. Delhi

FrBT1	Outreach Auditorium
Robust and PID Control (Regular Session)	
Chair: Mahindrakar, Arun	Indian Inst. of Tech. Madras
Co-Chair: Khan, Hadhiq	National Inst. of Tech. Srinagar
15:30-15:50	FrBT1.1
<i>Accelerated Simulation of a High-Fidelity DC-DC Buck-Boost Converter Using Model Order Reduction</i> , pp. 107-112.	
Khan, Hadhiq	National Inst. of Tech. Srinagar
Bazaz, Mohammad Abid	National Inst. of Tech
Nahvi, Shahkar Ahmad	Islamic Univ. of Science & Tech
15:50-16:10	FrBT1.2
<i>Pre-Fuzzy-PID Controller for Effective Control of Electromagnetic Levitation System</i> , pp. 113-118.	
Gandhi, Ravi	PhD, Scholar, Nirma Univ
Adhyaru, Dipak	Professor & Head, Inst. Engineering, Nirma Univ
16:10-16:30	FrBT1.3
<i>Stabilization of RDIP Using Sliding Modes</i> , pp. 119-124.	
Patil, Madhura	Coll. of Engineering Pune
Kurode, Shailaja	Coll. of Engineering, Shivajinagar, Pune INDIA
16:30-16:50	FrBT1.4
<i>Design of PID Controllers for Critically Damped SOPTD Systems</i> , pp. 125-130.	
Senthil Kumar, Ashwin Kumar	Madras Inst. of Tech. Univ
Kannan, Archana	Madras Inst. of Tech. Anna Univ
Santosh, Simi	Indian Inst. of Tech. Chennai , India
Manickam, Chidambaram	Indian Inst. of Tech. Madras
16:50-17:10	FrBT1.5
<i>Active Disturbance Rejection Control with Adaptive Rate Limitation for Process Control Application</i> , pp. 131-136.	
Desai, Ranvir	SGGS Inst. of Engineering and Tech. Nanded
Patre, B. M.	SGGS Inst. of Engineering and Tech
Pawar, S. N.	SGGS Inst. of Engineering and Tech. Nanded
17:10-17:30	FrBT1.6
<i>MIMO PID Compensation for Dynamic Positioning of a Ship</i> , pp. 137-142.	
Soman, Rohan	IIT Kharagpur
Gopmandal, Falguni	Dept. of Electrical Engg., IIT Kharagpur
Ghosh, Arun	Dr
FrBT2	Seminar Room
Optimization and Optimal Control (Regular Session)	
Chair: Sahoo, Soumya Ranjan	Indian Inst. of Tech. Kanpur
Co-Chair: Abraham, Mathew P	Indian Inst. of Tech. Bombay
15:30-15:50	FrBT2.1
<i>Multi-Objective Optimal Control of Biochemical Processes Using Genetic Algorithms through ANN Assisted Reformulation</i> , pp. 143-148.	
Miriyala, Srinivas Soumitri	INDIAN Inst. OF Tech. HYDERABAD
Mitra, Kishalay	Indian Inst. of Tech. Hyderabad
15:50-16:10	FrBT2.2
<i>On Determining Optimal Number and Layout of Wind Turbines Using Space Decomposed Cost-Energy Trade-Off Algorithm</i> , pp. 149-154.	
Mittal, Prateek	Indian Inst. of Tech. Hyderabad
Mitra, Kishalay	Indian Inst. of Tech. Hyderabad
16:10-16:30	FrBT2.3
<i>Limiting Behavior of CLOT-Optimal Control in Discrete-Time Systems</i> , pp. 155-159.	
Challapalli, Niharika	Univ. of Texas, Dallas
Vidyasagar, Mathukumalli	The Univ. of Texas at Dallas
16:30-16:50	FrBT2.4
<i>On the Existence of Equilibria in Price-Coupling Games</i> , pp. 160-165.	
Abraham, Mathew P	Indian Inst. of Tech. Bombay

Kulkarni, Ankur A.	Indian Inst. of Tech. Bombay
16:50-17:10	FrBT2.5
<i>Optimal Sizing of PV Panels and Battery for Grid Connected Load under Dynamic Pricing</i> , pp. 166-171.	
Prathapaneni, Dimple Raja	IIT Hyderabad
Detroja, Ketan	Indian Inst. of Tech. Hyderabad
17:10-17:30	FrBT2.6
<i>CLPSO Based Droop Optimization Technique for DC Microgrid</i> , pp. 172-177.	
Malhotra, Shiv	INDIAN Inst. OF Tech. KANPUR
Sahoo, Soumya Ranjan	Indian Inst. of Tech. Kanpur
Anand, Sandeep	INDIAN Inst. OF Tech. KANPUR
FrBT3	Video Conf. Room
Robotic and Vehicular Control (Regular Session)	
Chair: Sanyal, Amit	Syracuse Univ
Co-Chair: Pasumarthy, Ramkrishna	Indian Inst. of Tech. Madras
15:30-15:50	FrBT3.1
<i>Event-Triggered Control of Vehicle Active Suspension Systems</i> , pp. 178-183.	
Bansal, Kritika	National Inst. of Tech. Delhi
Mukhija, Pankaj	National Inst. of Tech. Delhi
15:50-16:10	FrBT3.2
<i>Optimal Path Planning for a Non-Holonomic Robot Using Interval Analysis</i> , pp. 184-189.	
Chauhan, Abhisha	IIT Bombay
Vyas, Pranjal	Indian Inst. of Tech. Bombay
Vachhani, Leena	Indian Inst. of Tech. Bombay
Maity, Arnab	Indian Inst. of Tech. Bombay
16:10-16:30	FrBT3.3
<i>Finite-Time Stable Trajectory Tracking and Pointing Control for a Class of Underactuated Vehicles in SE(3)</i> , pp. 190-195.	
Warier, Rakesh	Syracuse Univ
Sanyal, Amit	Syracuse Univ
Dhullipalla, Mani Hemanth	Syracuse Univ
Viswanathan, Sasi Prabhakaran	Akrobotix LLC
16:30-16:50	FrBT3.4
<i>Poincare Representation of the Equations of Motion of a Spherical Robot Actuated by Internal Rotors</i> , pp. 196-201.	
Saradagi, Akshit	Indian Inst. of Tech. Madras, Chennai
Menta, Sandeep	Indian Inst. of Tech. Madras
Gajbhiye, Sneha	Indian Inst. of Tech. Bombay
Mahindrakar, Arun	Indian Inst. of Tech. Madras
Banavar, Ravi N.	Indian Inst. of Tech
16:50-17:10	FrBT3.5
<i>Efficient Simulation of Electro-Thermal Microgripper Using PMOR</i> , pp. 202-205.	
Roy, Ananya	Indian Inst. of Tech. Delhi
Nabi, Mashuq-un-	Indian Inst. of Tech
17:10-17:30	FrBT3.6
<i>Tracking and Stabilization of Mechanical Systems Using Reinforcement Learning</i> , pp. 206-211.	
S, Bhuvaneswari	IIT Madras
Pasumarthy, Ramkrishna	Indian Inst. of Tech. Madras
B, Ravindran	Indian Inst. of Tech. Madras
Mahindrakar, Arun	Indian Inst. of Tech. Madras

Technical Program for Saturday January 6, 2018

SaCT1		Outreach Auditorium
Adaptive Control and Nonlinear Systems (Regular Session)		
Chair: Mahindrakar, Arun	Indian Inst. of Tech. Madras	
Co-Chair: Karmakar, Arunava	Indian Inst. of Tech. Kanpur	
13:30-13:50	SaCT1.1	
An Enhanced IAF-MPNLMS Algorithm for Sparse System Identification, pp. 212-216.		
Deshmukh, Ankit	I.I.T Kharagpur	
Venkatesh, M	I.I.T Kharagpur	
Ray, Goshaidas	Indian Inst. of Tech	
13:50-14:10	SaCT1.2	
MRAC and Modified MRAC Controller Design for Level Process Control, pp. 217-222.		
Pawar, Rupali	Pravara Rural Engineering Coll. Loni	
Parvat, Bhagsen	Pravara Rural Engineering Coll. Loni	
14:10-14:30	SaCT1.3	
Time-Frequency Control of Linear Time-Varying Systems Using Forward Riccati Differential Equation, pp. 223-228.		
Basu, Biswajit	Trinity Coll. Dublin	
Staino, Andrea	Alstom Trasport	
14:30-14:50	SaCT1.4	
An Improved Sage Husa Adaptive Robust Kalman Filter for De-Noising the MEMS IMU Drift Signal, pp. 229-234.		
Mundla, Narasimhappa	Indian Inst. of Tech. Madras	
Mahindrakar, Arun	Indian Inst. of Tech. Madras	
Vitor C, Guizilini	Univ. of Syndney	
Terra, Marco Henrique	Univ. of Sao Paulo at Sao Carlos	
Samrat L, Sabat	Univ. of Hyderabad	
14:50-15:10	SaCT1.5	
Creation and Stabilization of Limit Cycles in the Lorenz Attractor through the Orbit Closure Method, pp. 235-239.		
Kumar, Aravind	Indian Inst. of Tech. Madras	
Ali, Shaikh Faruque	Indian Inst. of Tech. Madras	
Friswell, Michael	Coll. of Engineering Swansea Univ	
Arunachalakasi, Arockiarajan	IIT Madras	
15:10-15:30	SaCT1.6	
Synchronization of Lienard-Type Oscillators in Heterogenous Electrical Networks, pp. 240-245.		
Sinha, Mohit	Univ. of Minnesota	
Florian, Dörfler	ETH	
Johnson, Brian	National Renewable Energy Lab	
Dhople, Sairaj	Univ. of Minnesota	
SaCT2		Seminar Room
Process Control (Regular Session)		
Chair: Mitra, Kishalay	Indian Inst. of Tech. Hyderabad	
Co-Chair: Prakash, Ravi	Indian Inst. of Tech. Kanpur	
13:30-13:50	SaCT2.1	
Design of Feedforward-Feedback Controller for Reactive Distillation Column Having Inverse Response, pp. 246-251.		
Kataria, Gaurav	MNIT Jaipur	
Singh, Kailash	MNIT Jaipur	
13:50-14:10	SaCT2.2	
Modified Series Cascade Control Strategy for Integrating Processes, pp. 252-257.		
G Lloyds Raja, Lloydsraja	Indian Inst. of Tech. Patna	
Ahmad Ali, Ali	Indian Inst. of Tech. Patna	
14:10-14:30	SaCT2.3	
Design of Decentralized PI and LQR Controllers for Level and Pressure Regulation of Steam Drum of Advanced Heavy Water Reactor, pp.		

258-263.

Panwar, Puneet
Mukhopadhyay, Siddhartha
Bhatt, Tarang
Tiwari, Akhilanand Pati

Bhabha Atomic Res. Centre, Mumbai and Indian Inst. of Te
lit Kgp
Bhabha Atomic Res. Center
Bhabha Atomic Res. Centre

14:30-14:50

SaCT2.4

Multi-Objective Prioritized Control of a Semi-Batch Process with Multiple Feed and Multiple Products Using Economic MPC, pp. 264-269.

Markana, Anilkumar
Padhiyar, Nitin
Moudgalya, Kannan M.

Pandit Deendayal Petroleum Univ. Gandhinagar
Indian Inst. of Tech. Gandhinagar
I.I.T. Bombay

14:50-15:10

SaCT2.5

Generalized Framework for Decoupler Design, pp. 270-275.

Khandelwal, Shubham
Detroja, Ketan

Indian Inst. of Tech. Hyderabad
Indian Inst. of Tech. Hyderabad

15:10-15:30

SaCT2.6

Internal Model Controller for CFBC Boiler Using Neural Networks, pp. 276-281.

Sethi, Bimal Kanta
Jagannathan, Ramanuja Vinayak
Dr. N., Sivakumaran

NATIONAL Inst. OF Tech
National Inst. of Tech. Tiruchirappalli
National Inst. of Tech

SaCT3

Video Conf. Room

Consensus and Cooperation (Regular Session)

Chair: Dasgupta, Soura
Co-Chair: Sahoo, Soumya Ranjan

Univ. of Iowa
Indian Inst. of Tech. Kanpur

13:30-13:50

SaCT3.1

Control of Formations: Stepping Beyond Passivity, pp. 282-287.

Dasgupta, Soura

Univ. of Iowa

13:50-14:10

SaCT3.2

Double Integrator Consensus in Fixed Time: A Novel Distributed Algorithm for Generalised Networks, pp. 288-293.

Sen, Arijit
Sahoo, Soumya Ranjan
Kothari, Mangal

IIT Kanpur
Indian Inst. of Tech. Kanpur
Indian Inst. of Tech. Kanpur

14:10-14:30

SaCT3.3

Synchronization of Multiple Linear Systems with Communication Delay, pp. 294-299.

De, Souradip
Sahoo, Soumya Ranjan
Mahindrakar, Arun
Wahi, Pankaj

INDIAN Inst. OF Tech. KANPUR
Indian Inst. of Tech. Kanpur
Indian Inst. of Tech. Madras
IIT Kanpur

14:30-14:50

SaCT3.4

Generalized Cyclic Pursuit of Double-Integrator Agents, pp. 300-305.

De, Souradip
Sahoo, Soumya Ranjan
Wahi, Pankaj

INDIAN Inst. OF Tech. KANPUR
Indian Inst. of Tech. Kanpur
IIT Kanpur

14:50-15:10

SaCT3.5

Economic Model Predictive Control of Building Energy Systems in Cooperative Optimization Framework, pp. 306-311.

Nagpal, Himanshu
Basu, Biswajit
Staino, Andrea

Trinity Coll. Dublin
Trinity Coll. Dublin
Alstom Trasport

SaDT1

Outreach Auditorium

Aerospace 1 (Regular Session)

Chair: Pasumarthi, Ramkrishna
Co-Chair: Karmakar, Arunava

Indian Inst. of Tech. Madras
Indian Inst. of Tech. Kanpur

16:00-16:20	SaDT1.1
<i>Two Stage Proportional Navigation Guidance Law for Impact Time Control</i> , pp. 312-317.	
Saleem, Abdul	Government Engineering Coll. Wayanad
Ratnoo, Ashwini	Indian Inst. of Science
16:20-16:40	SaDT1.2
<i>Autonomous Maneuvering of a Stratospheric Airship</i> , pp. 318-323.	
D, Gobiha	Indian Inst. of Tech. Madras
Sinha, DR.Nandan kumar	Iit Madras
16:40-17:00	SaDT1.3
<i>Minimum Control Constrained Low-Thrust Rendezvous Using Multiple-Interval Legendre Pseudospectral Method</i> , pp. 324-329.	
Kumar, Yajur	Manav Rachna International Univ
17:00-17:20	SaDT1.4
<i>Singularity Analysis of Rooftop Configuration</i> , pp. 330-334.	
Sasikumar, Vishnu Therayil	Indian Inst. of Space Science and Tech
Harsha, Simha	Indian Inst. of Space Science and Tech
H, Priyadarshan	Indian Inst. of Space Science and Tech
SaDT2 Seminar Room	
Aerospace 2 (Regular Session)	
Chair: Sahoo, Soumya Ranjan	Indian Inst. of Tech. Kanpur
Co-Chair: Kedarisetty, Siddhardha	Iit Madras
16:00-16:20	SaDT2.1
<i>System Identification of a Small Scaled Helicopter Using Simulated Annealing Algorithm</i> , pp. 335-339.	
Biswas, Pranjal	Indian Inst. of Science
Balamuralidhar, Navaneethkrishnan	Indian Inst. of Science
Anand, Gaotham	Indian Inst. of Science
Omkar, S N	Indian Inst. of Science
16:20-16:40	SaDT2.2
<i>Quaternion Based Adaptive Control for Package Delivery Using Variable-Pitch Quadrotors</i> , pp. 340-345.	
Shastri, Animesh Kumar	Indian Inst. of Tech. Kanpur
Bhargavapuri, Mahathi	IIT Kanpur
Kothari, Mangal	Indian Inst. of Tech. Kanpur
Sahoo, Soumya Ranjan	Indian Inst. of Tech. Kanpur
16:40-17:00	SaDT2.3
<i>A Novel Quad-Rotor Configuration Capable of Attitude Control through Center of Gravity Variation</i> , pp. 346-351.	
Kedarisetty, Siddhardha	Iit Madras
17:00-17:20	SaDT2.4
<i>Differential-Flatness and Control of Quadrotor(s) with a Payload Suspended through Flexible Cable(s)</i> , pp. 352-357.	
Kotaru, Venkata Naga Prasanth	Carnegie Mellon Univ
Wu, Guofan	Carnegie Mellon Univ
Sreenath, Koushil	Univ. of California, Berkeley
SaDT3 Video Conf. Room	
Networked Control (Regular Session)	
Chair: Bhat, Sanjay P.	Tata Consultancy Services Limited
Co-Chair: Baranwal, Mayank	Univ. of Illinois
16:00-16:20	SaDT3.1
<i>Implementing Sliding Mode Control of DC Servo Motor Over a Control Network</i> , pp. 358-362.	
Samantaray, Jagannath	Indian Inst. of Tech. Roorkee
16:20-16:40	SaDT3.2
<i>CAN-Based Networked Path-Tracking Control of a 4WS4WD Electric Vehicle: Minimum Sampling Period</i> , pp. 363-368.	
Singh, Arun Kant	Indian Inst. of Tech. Kanpur
Potluri, Ramprasad	IIT Kanpur

Singh, Arun Kant
Potluri, Ramprasad

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IIT Kanpur