

	Presentation duration : 8 minutes + 2 min Q/A						
<b>20th July ,2023</b>				<b>Oral Session 1</b>			
	<b>Location- GARGI AUDITORIUM, IIT KHARAGPUR</b>		<b>Time- 11:30 to 1 p.m</b>		<b>Location- MAITREYEE AUDITORIUM, IIT KHARAGPUR</b>		<b>Time- 11:30 to 1 p.m</b>
	<b>Paper-id</b>	<b>Title</b>	<b>Authors, Affiliation</b>		<b>Paper-id</b>	<b>Title</b>	<b>Authors, Affiliation</b>
	20	Demo: Light-weight Detection of Bus-off Attack on Automotive Controller Area Networks	Sunandan Adhikary, CSE, IIT Kharagpur Ipsita Koley, CSE, IIT Kharagpur Soumyajit Dey, CSE, IIT Kharagpur		72	Consensus of double integrators in presence of a reverse edge in a chain: Analysis and design	Avinash Kr Dubey, EE, IIT Bombay, India Dwaipayan Mukherjee, EE, IIT Bombay, India
	73	Scalable Distributed Controller Synthesis for Multi-Agent Systems	David Smith Sundarsingh, RBCCPS, IISc Bangalore, India Ratnangshu Das, RBCCPS , IISc Bangalore, India Adnane Saoud, School of Computer Science, Mohammed VI Polytechnical University, Benguerir, Morocco Pushpak Jagtap, RBCCPS , IISc Bangalore, India		91	Confidentiality Leakage Analysis of Database-driven Applications in CPS	Anwesha Kashyap, Indian Institute of Information Technology Guwahati, India Angshuman Jana, Indian Institute of Information Technology Guwahati, India
	87	Randomized Subspace Identification for LTI Systems	Vatsal Kedia, IIT Bombay, India Debraj Chakraborty		24	Entrada to Secure Graph Convolutional Networks	Nishat Koti, IISc Bangalore, India Varsha Bhat Kukkala, IISc Bangalore, India Arpita Patra, IISc Bangalore, India Bhavish Raj Gopal, IISc Bangalore, India
	100	SCAN: Secure CAN Framework for Object Detection on Edge	Sumansmita Rout, ATDC, IIT Kharagpur, India Ayantika Chatterjee, ATDC, IIT Kharagpur, India		10	Boundary Surveillance using Two UAVs	Ranjeet Kumar, EE, IIT Kharagpur, India Alok Kanti Deb, EE, IIT Kharagpur, India
	70	Automation in Vertical Farming for Micro Green Roofing	Sanjay Kumar, ME, IIT Ropar, India Prince Kumar, ME, IIT Ropar, India Sandeep Kumar, ME, IIT Ropar, India Prabir Sarkar, ME, IIT Ropar, India		19	Demo Proposal: Reinforcement Learning based Motion Planning in Autonomous Ground Robots	Arghyadeep Barat, ETCE , Jadavpur University , Kolkata, India Yalmarthy NV Ronnit Gupta, ME , Indian Institute of Technology, Roorkee, India Vaibhav Katewa , RBCCPS, IISc , Bangalore, India
	83	End-to-end Autonomous Driving in Heterogeneous Traffic Scenario Using Deep Reinforcement Learning	Soumyajit Chakraborty, EE, RBCDSAI, IIT Madars, India Subhadeep Kumar, EE, RBCDSAI, IIT Madars, India Nirav Bhatt ,Biotech, RBCDSAI, IIT Madars, India Ramkrishna Pasumarthy, EE, RBCDSAI, IIT Madars, India		22	Human Safety-Centric Robot Path-Planning	Dhanaprakaash G, RBCCPS, IISc Bangalore, India Bharadwaj Amrutur, RBCCPS, IISc Bangalore, India Suresh Sundaram, AE and RBCCPS, IISc Bangalore, India
	17	Qualitative Assessment of Relaxation State through Non-Invasive Measurements	Soumitra Kundu, Rekhi Centre of Excellence for the Science of Happiness , IIT kharagpur, India Gargi Panda, EE, IIT Kharagpur, India Rajlakshmi Guha, Rekhi Centre of Excellence for the Science of Happiness , IIT kharagpur, India Aurobinda Routray, EE, IIT Kharagpur, India		85	Image Splicing Detection and Filter-based Counter Forensics	Debjit Das, IT, IIST Shibpur, India Ruchira Naskar, IT, IIST Shibpur, India
	18,60	Demo: Preventing Schedule-Based FDI Attacks by Attack-Aware Multi-Rate Scheduling	Arkaprava Sain, CSE, IIT Kharagpur, India Suraj Singh, CSE, IIT Kharagpur, India Soumyajit Dey, CSE, IIT Kharagpur, India		104, 109	A Noise Mitigation Approach for Improving Position estimation of a Scaled Electric Vehicle	Vasumathi R, EE, RBCDSAI, IIT Madars, India Subhadeep Kumar, EE, RBCDSAI, IIT Madars, India Ramkrishna Pasumarthy, EE, RBCDSAI and PCENSLCEG, IIT Madars, India Nirav Bhatt ,Biotech, RBCDSAI and PCENSLCEG, IIT Madars, India



				Poster/Demo Session			
				Demo papers are in both demo, oral sessions			
	Paper-id	Title	Authors, Affiliation		Paper-id	Title	Authors, Affiliation
FOYER 17:30 pm	7	Realizing On-Chip Digital Twin for Event Tracking in Squirrel Cage Induction Motors and Drives	Haraprasad Badajena, ATDC, IIT Kharagpur , India Ronit Dutta, EE, IIT Kharagpur , India Aurobinda Routray, EE, IIT Kharagpur , India	FOYER 17:30 pm	30	Demo: Continuous Diver Monitoring and real-time inference of Dangerous Driving	Argha Sen, CSE, IIT Kharagpur, India Sandip Chakraborty, CSE, IIT, Kharagpur, India
	16	Dynamic Route Planning for Urban Green Mobility (DRUM): Development of a Web Application to Minimize Commuters' Pollutant Exposure	Kapil Kumar Meena , RCGSIDM, IIT Kharagpur , India Aditya Kumar Singh, ABV, IITM, Gwalior, India		18,60	Demo: Preventing Schedule-Based FDI Attacks by Attack-Aware Multi-Rate Scheduling	Arkaprava Sain CSE, IIT Kharagpur, India Suraj Singh,CSE, IIT Kharagpur, India Soumyajit Dey, CSE, IIT Kharagpur, India
		Convolution neural networks for optical coherence tomography (OCT) image classification	Karri Karthik, Manjunatha Mahadevappa; School of Medical Science and Technology (SMST); Indian Institute of Technology Kharagpur		19	Demo Proposal: Reinforcement Learning based Motion Planning in Autonomous Ground Robots	Arghyadeep Barat,ETCE,JU, Kolkata, India Yalmarthy NV Ronnit Gupta,ME, IIT Roorkee, India Vaibhav Katewa, IISc, Banglore, India
		Real-time Scheduler Design for Safety-critical Systems: A Supervisory Control Approach	Rajesh Devaraj (Nvidia Graphics, India), Dipankar Mandal (IIT Kharagpur, India)		20	Demo: Light-weight Detection of Bus-off Attack on Automotive Controller Area Networks	Sunandan Adhikary, CSE, IIT Kharagpur, India Ipsita Koley, CSE, IIT Kharagpur, India Soumyajit Dey, CSE, IIT Kharagpur, India
21st July,2023				Oral Session - 3			
Location- GARGI AUDITORIUM, IIT KHARAGPUR				Location- MAITREYEE AUDITORIUM, IIT KHARAGPUR			
Time- 12:30 to 1 p.m				Time- 12:30 to 1 p.m			
	Paper-id	Title	Authors, Affiliation		Paper-id	Title	Authors, Affiliation
	92	An unsupervised approach for driving behaviour classification using smartphones	Deepak Yadav, Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India Punit Rathore, Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India		30	Demo: Continuous Driver Monitoring and real-time inference of Dangerous Driving	Argha Sen, CSE, IIT Kharagpur, India Sandip Chakraborty, CSE, IIT Kharagpur, India
	93,96	A Self-Supervised Approach for Cluster Assessment of High-Dimensional Data	Alokendu Mazumder,Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India Tirthajit Baruah,Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India Pagadala Krishna Murthy,Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India Punit Rathore,Robert Bosch Centre for Cyber Physical Systems, IISc Bangalore, India		69	Smart Walker Instrumentation using Hand Gestures for Lower Limb Impaired People	Ms. R. Keerthana, Department of Biomedical Engineering, Sri Shakthi Institute of Engineering and Technology,Coimbatore, India
	15,46	Safety analysis of SNN-controlled CPS	Arkaprava Gupta , Kalinga Institute of Industrial Technology, Bhubaneswar, India Sumana Ghosh , Indian Statistical Institute , Kolkata, India Ansuman Banerjee , Indian Statistical Institute, Kolkata, India		21	Machine Learning Guided Strategy to Develop High-performance Perovskite Solar Cells	Snehangshu Mishra, School of Energy Science and Engineering, IIT Kharagpur, India Vivek Guguloth, School of Energy Science and Engineering, IIT Kharagpur, India Triok Singh, School of Energy Science and Engineering, IIT Kharagpur, Department of Energy Science and Engineering, IIT Delhi, India

22nd July, 2023			Oral Session - 4		
Location- GARGI AUDITORIUM, IIT KHARAGPUR			Location- MAITREYEE AUDITORIUM, IIT KHARAGPUR		
Time- 11:30 to 1:00 p.m			Time- 11:30 to 1:00 p.m		
Paper-id	Title	Authors, Affiliation	Paper-id	Title	Authors, Affiliation
63	Residual learning and attention based image fusion of Hyperspectral and Multispectral Image	Aditya Agrawal , IIT, Guwahati, India Manish Bhatt, IIT, Guwahati, India	95	PM2.5 Forecasting at Kanpur, Delhi, and Kolkata City using XGBoost model	Vyshnavi K K, CE, IIT Kharagpur, India Shubha Verma, CE, IIT Kharagpur, India
88	Interpretable simultaneous localization of MRI corpus callosum and classification of atypical Parkinsonian disorders using YOLOv5	Vamshi Krishna Kancharla, IIIT - Bangalore, India Debanjali Bhattacharya,IIIT - Bangalore, India Neelam Sinha, IIIT - Bangalore, India Jitender Saini, Neuroimaging and Interventional Radiology,NIMHANS - Bangalore, India Pramod Kumar Pal,Dept. of Neurology,NIMHANS - Bangalore, India Sandhya M.,Neuroimaging and Interventional Radiology,NIMHANS - Bangalore, India	98	Inclusive HRI for quadriplegic students	Abhisek Dhar, IISc Bangalore, India
90	Development of Reinforcement Learning based algorithm for Battery Charging in EVs	Abhimanyu Bhola, Department of Engineering Design,Institute of Technology, Madras, India V. Krishna Teja Mantripragada, RSCE TVM,Department of Engineering Design,IIT Madras, India Krishna Kumar Ramarathnam, Department of Engineering Design,IIT Madras, India	84	Task and Message Co-scheduling Strategies in Real-time Cyber-Physical Systems	Sanjit Kumar Roy, CSE, SRM University, Andhra Pradesh, India Dipankar Mandal, COEAI, IIT Kharagpur, India
108	Low Resource Condition Monitoring in Cyber-Physical Systems based photovoltaic modules	Shivam Tyagi, CSE,Netaji Subhas University of Technology, Delhi, India Bhavya Dhingra, EE, Netaji Subhas University of Technology, Delhi, India	14	Cluster Consensus of Multi-agent Systems With Second Order Dynamics Over Matrix-weighted Graphs	Gopika R, BITS Pilani, Goa Campus, India
71	Energy-efficient Real-Time Scheduling of Multiple Periodic DAGs on Heterogeneous Systems	Debabrata Senapati, CSE, IIT Guwahati, India Chhavi Chaudhary, COEAI, IIT Kharagpur, India	32	Analysis of Road Accidents in India 2016 to 2021	Ajin Frank, School of Electronics and Communication Engineering, REVA University, Bangalore, India Shridevi Jeevan Kamble , School of Electronics and Communication Engineering, REVA University, Bangalore, India
101	Brownout-Framework for Power Shortages	Basina Deepak Raj, IT, Lakireddy Bali Reddy College of Engineering, India Suraj Shaligram Meshram, COEAI, IIT Kharagpur, India	97	Time Series Analysis Based Predictive Demand Response and Unit Commitment	Jisha N T, CSE, IIIT, Kottayam, Kerala, India Nilotpal Chakraborty, CSE, IIIT, Kottayam, Kerala, India
107	An EMG-controlled upper limb exoskeleton for post stroke Rehabilitation	Eashita Chowdhury, School of Medical Science and Technology, IIT Kharagpur, India Manjunatha Mahadevappa, School of Medical Science and Technology, IIT Kharagpur, India Cheruvu Siva Kumar, Dept of Mechanical Engineering, IIT Kharagpur, India	6	Stabilization of 10 degrees of freedom biped robot using Reinforcement Learning	Aditya Kameswara Rao Nandula, ATDC, IIT Kharagpur, India Alok Kanti Deb, EE, IIT Kharagpur, India Cheruvu Siva Kumar, ME, IIT Kharagpur, India

	5	Study of Microcontroller based Pulse Oximeter using Machine Learning Algorithms	<p>Amber Goswami, Electrical &amp; Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India</p> <p>Sautami Basu, Electrical &amp; Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India</p> <p>Gyanendra Singh, Inter University Centre for Teacher Education, IUCTE, Banaras Hindu University, Varanasi (UP), India</p> <p>Vishal Srivastava, Electrical &amp; Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India</p>		78	<p>Early prediction of animal lumpy skin disease from images using deep learning</p> <p>Mansi Sikarwar, CSE, NIT, Warangal, India</p> <p>Ramakrishnu Tene, CSE, NIT, Warangal, India</p> <p>Dheeraj Kodati, CSE, NIT, Warangal, India</p>
	79	Employing hyperspectral imaging system as an efficient tool for detection of wilt in <i>Cajanus cajan</i>	<p>Amitava Dutta, School of Interdisciplinary Research, IIT, Delhi, India</p> <p>Rashi Tyagi, Department of Biochemical Engineering and Biotechnology, Delhi, India</p> <p>Shilpi Sharma, School of Interdisciplinary Research, Department of Biochemical Engineering and Biotechnology, Delhi, India</p> <p>Ankita Sarkar, Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India</p> <p>Brejesh Lall, School of Interdisciplinary Research, Department of Biochemical Engineering and Biotechnology, IIT, Delhi, India</p>		106	<p>Exploring DDoS Vulnerabilities in OpenDayLight SDN Controller: Unveiling Attack Strategies</p> <p>Mitali Sinha, CSE, IIT Bhubaneswar, India</p> <p>Padmalochan Bera, CSE, IIT Bhubaneswar, India</p> <p>Manoranjan Satpathy, CSE, IIT Bhubaneswar, India</p>