

OCIT 2021 Program Schedule

16th December 2021 (Thursday)

8 AM-10 AM	Delegate Arrival, Registration, Breakfast					
10 AM-11:15 AM	Inaugural Event					
11:30 AM-12:30 PM	Keynote Talk - 1 : Everything You wanted to Know about Smart Healthcare					
	Speaker: Prof. Saraju P. Mohanty, University of North Texas, Denton, TX 76207, USA					
12:30 PM-1:30 PM	Session – 01			Session – 02		
	Multimedia, Signal Processing, Embedded Systems (MSE)			Sequential, Parallel, Distributed and Cloud Computing (PDC)		
	MSE -44	The Impact of GATE Thickness Variation on FinFET Performance Parameters	Dhananjaya Tripathy	PDC -48	AxomDB: A Distributed, Scalable In-Memory Database System	Prakash Jha
	MSE -45	Design of Robotic Snake With ESP 32 CAM and Arduino	Soumya Ranjan Samal	PDC -49	2D Greedy Algorithm for Overlap Removal for Mixed-Size Placement in VLSI	Akshaya Kumar Dash
	MSE -46	Real Time Heart Beat Monitoring With LABVIEW	Nalini Singh	PDC -50	Efficient Algorithm for Hermite Interpolation	Alok Ranjan Tripathy
	MSE -47	Implementation of a Malware Scanner Using Signature-Based Approach for Android Applications	Jitendra Kumar Rout	PDC -51	Comparative Analysis of Various Task Scheduling Algorithms in Cloud Environment	Rabindra Kumar Dalei
1:30PM - 2:30PM	LUNCH					
2:30 PM-3:30 PM	Keynote Talk – 2 (Industrial Talk) : Tech Trends Impacting Business					
	Speaker: Satendra Singh, CTO, Propelld, Bengaluru, India					
3:30PM - 3:45PM	Tea					
3:45PM - 5:30PM	Session – 03			Session – 04		
	Artificial Intelligence, Machine Learning, and Deep Learning (AMD)-I			Data Science (DSC)-I		
	P.ID	Title	Authors	P.ID	Title	Authors
	AMD -I-1	CNC Machine Condition Monitoring System Using LSTM Based Deep Learning Techniques	Mohan Krishna K	DSC-I-28	Model-Based Test Effort Estimator - a Case Study	Pulak Sahoo
	AMD -I-2	Automatic Multi-organ Segmentation on Abdominal CT scans using Deep U-Net Model	Suchismita Das	DSC-I-29	Change Detection Using Machine Learning Models: A Case Study on the Puri District of Odisha, India	Subhra Swetanisha
	AMD -I-3	A Three-Phase Noise Removal Approach to Achieve Accuracy in Line Segmentation of Odia Text	Aradhana Kar	DSC-I-30	New Approaches in Stock Market Prediction Using Velocity Enhanced Whale Optimization Algorithm	Soumya Das
	AMD -I-4	Moment Detection and Monitoring System	Yalla Jeevan Nagendra Kumar	DSC-I-31	Classification and Detection of Acne on the Skin Using Advanced Deep Learning Algorithms	Nikhil Pancholi
	AMD -I-5	Automatic Threat Detection Using Deep Neural Networks	Saswati Soumya Tripathy	DSC-I-33	Detection of Invasive Ductal Carcinoma Using Deep Residual Networks Through Transfer Learning	Srinidhi Kulkarni
AMD -I-6	QSAR and Molecular Docking Studies for the Inhibition of MAPK Interacting Kinase	Nilima R Das	DSC-I-35	A Design Approach for Double-Band Pass Filter Using Functional-Linked Cat Swarm Optimization Algorithm	Judhisthir Dash	

AMD -I-7	A Comparative Survey on Face Recognition Techniques	Om Patra			
AMD -I-8	Local Gamma Correction Using Bi-Linear Function for Dark Image Enhancement	Abanikanta Pattanayak			
AMD -I-9	A Machine Learning-Based Privacy-Preserving Model for COVID-19 Patient using Differential Privacy	Arvind Mewada			

17th December 2021 (Friday)

8AM-9:30AM	Delegate Arrival, Registration, Breakfast					
9:30AM-10:30AM	Keynote Talk - 3 : Smart Education in Post-Pandemic Era					
	Speaker: Prof. Baek-Young Choi, University of Missouri – Kansas City (UMKC)					
10:30AM-1:00PM	Session – 05			Session – 06		
	Networking and Information Security (NIS)-I			Data Science (DSC)-II		
	P.ID	Title	Authors	P.ID	Title	Authors
	NIS-I-52	Mobile Charger Utility Maximization through Preemptive Scheduling for Rechargeable WSNs	Srinivas Madana	DSC-II-36	Analysis of Heart Diseases Using Soft Computing Technique	Subhalaxmi Das
	NIS-I-53	Intelligent Edge Detection of Attacks on IP-Based IoT Deployments	Harsh Kumar	DSC-II-37	Knowledge Extraction From Rainfall Data	Hiren Kumar Deva Sarma
	NIS-I-54	Analysis of Detection and Prevention Mechanism for 6LowPAN Protocol Header in IoT Assisted Cloud Environments	Rajkumar Gaur	DSC-II-38	Extreme Gradient Boosting and Soft Voting Ensemble Classifier for Diabetes Prediction	Dayal Kumar Behera
	NIS-I-55	Blockchain Powered Energy Monitoring System	Soumya Ranjan Samal	DSC-II-39	Automatic Speaker Verification Under Spoofing Attack	Soumya Priyadarsini Panda
	NIS-I-56	Detection of Deep-Morphed Deepfake Images to Make Robust Automatic Facial Recognition Systems	Alakananda Mitra	DSC-II-40	SkinAid: A GAN-Based Automatic Skin Lesion Monitoring Method for IoMT Frameworks	Prathistith Raj Medi
	NIS-I-57	Detection and Mitigation of Blackhole Attack Effect in Opportunistic Networks	Smritikona Barai	DSC-II-41	Convergence of Data Science and Blockchain	Ashish Shugani
	NIS-I-58	A Machine Automated Big Data Modular Framework for Finding Network Security Vulnerabilities	Gyana Ranjana Panigrahi	DSC-II-42	Precise Stock Price Prediction for Optimized Portfolio Design Using an LSTM Model	Jaydip Sen
	NIS-I-59	Clustering Based Efficient MEC Server Placement and Association in 5G Networks	Saumyaranjan Dash	DSC-II-43	Classification of News With Relational Multi Attributes Using Machine Learning Approach	Chetana Thaokar
NIS-I-60	Multiplexed Is-OWC System Design Using Advanced Modulation Techniques	Utpal Das				
1:00PM-2:00PM	LUNCH					
2:00PM-3:00PM	Keynote Talk - 4 : Machine Learning and Data Analytics Applications in Power Engineering					
	Speaker: Dr. R. Nagaraja, Founder and Managing Director of M/s. Power Research & Development Consultants Private Limited, Bengaluru, INDIA					
3:00PM-3:15PM	Tea					

Session – 07			Session – 08		
Artificial Intelligence, Machine Learning, and Deep Learning (AMD)-II			Special Session Track - Cloud and Edge Computing, and Blockchain (CEB)		
P.ID	Title	Authors	P.ID	Title	Authors
AMD-II-10	Identification of Diabetic Foot Ulcer in Images Using Machine Learning	Shalok Mohanty	SS-84	EMRI: A Scalable and Secure Blockchain Based IOMT Framework for Healthcare Data Transaction	Soubhagya Ranjan Mallick
AMD-II-11	Long Context Question Answering With BERT	Siddaraju Raju	SS-85	A Quality of Service(QoS) Aware Fog Computing Model for Intelligent IoT Applications	Hemant Kumar Apat
AMD-II-12	A Machine Learning Approach for Estimating Compressive Strength of Concrete Structures Using an Artificial Electric Field Algorithm-Based Neuro-Fuzzy Predictor	Sarat Chandra Nayak	SS-87	A Systematic Survey on DDoS Attack and Data Confidentiality Issue on Cloud Servers	Sarthak Mishra
AMD-II-13	Automatic Dialect Detection for Low Resource Santali Language	Sunil Kumar Sahoo	SS-88	D3: Detection and Prevention of DDoS Attack Using Cuckoo Filter	Sarthak Mishra
AMD-II-15	A Machine Learning Approach for the Prediction of Fetal Health Using CTG	Astik Kumar Pradha	SS-89	On Exploring the Role of Feature Processing in Gait-Based Gender Identification	Amartya Chakraborty
AMD-II-16	A Deep Learning Approach for COVID-19 Infection Probability Prediction	Saumendra Kumar Mohapatra	SS-90	Assisting Fog-Cloud Computing With an Adaptive Traffic Awareness Resource Provisioning Algorithm for Health Data	Arijit Dutta
AMD-II-17	RBC Classification Using Deep Learning	Vinay Bidari	SS-91	Finite Buffer Queueing System Performance Study With Multi Heterogeneous Fog Architecture	Arijit Dutta
AMD-II-18	A Visual Question Answering System Using YOLO Model	Soumya Priyadarsini Panda	SS-92	LCD Codes as a Counter-Measure for Relevant Security Threats: A Survey	Md Ajaharul Hossain

18th December 2021 (Saturday)

8AM-9:30AM	Delegate Arrival, Registration, Breakfast					
9:30AM-10:30AM	Keynote Talk - 5 : Micro-architectural Support to Defend Against Software Attacks					
	Speaker: Prof. Srinivas Katkooi, University of South Florida (USF), Tampa					
10:30AM - 01:00PM	Session – 9		Session – 10			
	Artificial Intelligence, Machine Learning, and Deep Learning (AMD)-III		Networking and Information Security (NIS)-II			
	P.ID	Title	Authors	P.ID	Title	Authors
	AMD-III-19	Crop Recommendation System Using KNN and Random Forest Considering Indian Data Set	Tapas Kumar Mishra	NIS-II-61	Interference Aware Handoff Through Dynamic Channel Switching in High Speed 802.11ac WLAN	Biplab K Mandal
AMD-III-20	Evolutionary Teaching-Learning Based Modified Polynomial Classifier	Debasmita Pradhan	NIS-II-62	IoT Enabled Predictive Maintenance of Diesel Generator in the Context to Industry 4.0	Dipak Ranjan Nayak	
AMD-III-21	Social Distancing Violation Detection Using Pre-Trained Object Detection Models	Vishal Bharti	NIS-II-63	An Image Watermarking Framework Based on Saliency and Phase Congruency Using LSB Matching Technique	Manas Ranjan Nayak	

	AMD-III-22	Comparative Analysis of Weather Prediction Using Ensemble Learning Models and Neural Network	Mohammad Sadman Tahsin	NIS-II-64	A PUF Based Approach for Sustainable Cybersecurity in Smart Agriculture	Venkata K. V. V. Bathalapalli
	AMD-III-23	Sarcasm Detection Using Deep Learning	Deepak Sahoo	NIS-II-65	Data Security Model Using Deep Learning and Edge Computing for Internet of Things (IoT) in Smart City	Mohammad Sadman Tahsin
	AMD-III-24	Assessing Emotional Well-Being of Students Using Machine Learning Techniques	Meka Varsha	NIS-II-66	Review on Authentication Schemes for Device Security in LoRaWAN	Devishree Naidu
	AMD-III-25	Application of 1-Dimensional Convolution Neural Network Based Machine Learning Approach for Prediction of Air Quality Index	Santosh Nanda	NIS-II-67	Minimizing Latency for Controller Placement Problem in SDN	Sagarika Mohanty
	AMD-III-26	DOCR- CAPTCHA: OCR Classifier Based Deep Learning Technique for CAPTCHA Recognition	Amal Mathew	NIS-II-68	Extended Crossed Cube With Cross Connection : A New Interconnection Network for High Performance Computing	Rashmita Padhi
	AMD-III-27	Novel Deep Learning Architecture for Heart Disease Prediction Using Convolutional Neural Network	Santosh Kumar Nanda	NIS-II-69	An Ensemble-Based Outlier Detection Approach on Intrusion Detection	Santosh Kumar Sahu
1:00PM-2:00PM	LUNCH					
2:00PM-3:00PM	Keynote Talk - 6 : AI for Personalized Education					
	Speaker: Mukesh Mohania, Professor (CSE) and Dean (IRD) at IIIT Delhi					
3:00PM-3:15PM	Tea					
3:15PM - 5:15PM	Session -11			Session - 12		
	Power, Smart Grid and Internet of Things (PSI)-I			Power, Smart Grid and Internet of Things (PSI)-II		
	P.ID	Title	Authors	P.ID	Title	Authors
	PSI-I-70	Secure Trust Model Based on Blockchain for Internet of Things Enable Smart Agriculture	Bhabendu Kumar Mohanta	PSI-II-77	Design and Analysis of Step up Regulator using Exact Feedback Linearization by state feedback Approach	Nibedita Swain
	PSI-I-72	A Robust Controller for a Permanent Synchronous Generator Based Wind Energy Conversion System	Raseswari Pradhan	PSI-II-78	Performance Analysis of Voltage-Multiplier Based DC-DC Converters in Wind Power Conversion System	Anita Kumari
	PSI-I-73	Comparative Study of Multi-Stage Boost Converter for High Voltage and High Power Applications	Lopamudra Mitra	PSI-II-79	Error Rate Reduction of Air Quality Parameters in Health Care Industry Using SD-IoT Environment	Samaleswari Nayak
	PSI-I-74	DE Based Reduced-Order Modeling for Interval Modeling Doha Water Treatment Plant	V P Meena	PSI-II-80	QoS Enhancement of Hospital e-Healthcare Management Using IoT	Stitapragyan Lenka
	PSI-I-75	Performance Analysis of Heterojunction Tunnel FET Biosensor	Satish Kumar Das	PSI-II-81	An Adaptive Equilibrium Optimizer Based Technique for Optimal Allocation of D-STATCOM in a Reconfigured Distribution Network	Usharani Raut
	PSI-I-76	TLO-Based Neural Discrete Predictive Approach for DTFC Induction Motor Drive	Rabi Narayan Mishra	PSI-II-82	iTour2.0: A Smart Tourism Application for Independent Mobility of Tourists	Seema G. Aarella
			PSI-II-83	IoT Based Municipality Drinking Water System Through NFC and SCADA	Debabrata Singh	
5:15PM	Awards and Closing Ceremony					