

**PROGRAM SCHEDULE (Tentative)**

**DAY-1: 19-02-2021 (Friday)**

<b>Time (IST)</b>	<b>DAY-1: 19-02-2021 (Friday)</b>			
9-30 to-10-55	<b>Inaugural Program</b>			
10-55 to 11-15	<b>TEA BREAK</b>			
		<b>Speaker</b>	<b>Topic</b>	
11-15 – 12-15	Plenary Lecture-1	<b>Prof.S C Mukhopadhyay</b> , Professor, Macquarie University, Australia	<b>IoT, Smart Homes and Smart City: From Sensors to Computing</b>	
12-15 – 13-15	Plenary Lecture-2	<b>Dr. Suresh Viswakarma</b> , Chairman, Chartered Engineers Pacific, Canada	<b>Role of Engineers and Computational Intelligence in Developing Smart Cities in Indian Scenario.</b>	
13-15-13-45	<b>LUNCH BREAK</b>			
	<b>Technical Session-1 Soft Computing, Image Processing and Artificial Intelligence</b>			
13-45 to 14-45	Keynote Speech-1	<b>Dr. Debabrata Datta</b> , Former Scientific officer and Head, Radiological Physics & Advisory Division of Health, Safety & Environment Group Bhabha Atomic Research Centre	<b>Entropy Based Intelligent Computation for Decision Making Processes.</b>	
14-45 to 15-45	<b>Paper Id</b>	<b>Topic</b>	<b>Authors</b>	<b>Session Chair</b>
	10	User Behaviour Analysis Using Data Analytics And Machine Learning To Predict Malicious User Versus Legitimate User	Rohit Ranjan And S Shekhar	<b>Prof. J.P.Singh</b> Department of CSE, NIT, Patna <b>Rapporteur: Dr. Arindam Sarkar</b> , RKM, Belur Vidyapith
	14	Automated Visual Tracking And Live Data Analysis In Badminton	Mona Teja Kurakula and P Natarajan	
	42	An Intelligent Pattern Recognition Algorithm	Abhijit Bag and D P Goswami	
	75	Autonomous Ground Vehicle for Off-the-Road Applications based on Neural Networks	Alice James, A Seth and S C Mukhopadhyay	
	25	Hexalevel Grayscale Imaging and K-Means Clustering to Identify Cloud Types in Satellite Visible Range Images	Sanjay Goswami, B Goswami and G Bhandari.	

## Technical Session-2: Communication and Networking & Mobile Computing

15-45 to 16-45	Keynote Speech-2	<b>Prof (Dr.) Celia Shahnaz</b> , Dept of EEE, BUET, Dhaka, Bangladesh, Chair, IEEE Bangladesh Section	<i>Signal Processing and Biomedical Applications Based on Deep Learning</i>	
16-45 to 17-15	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	26	DC and Noise Analysis of Si based DDR IMPATTs at Ka Band	Sangeeta Jana Mukhopadhyay, R Dhar and M Mitra	<b>Prof. P.K.Jana</b> , Department of CSE, IIT Dhanbad <b>Rapporteur: Dr. Moutushi Singh</b> , IEM, Kolkata
	27	Highly efficient Microstrip Patch Antenna for the X-band purposes	Md. S Abdullah Chy, Md T Islam, Md. R H Abir, Md. S Mahmud, Al Md Bhuiyan, A A S Chowdhury and Md. H. Islam	
	60	Handoff Analysis in Overlay Based GTP Tunneled 3G-WLAN Integrated Network	A K Mukhopadhyay and S Saha	
17-15 to 17-30		TEA BREAK		

## Technical Session-3: Industrial Automation & Applications

17-30 to 18-30	Keynote Lecture 3	<b>Prof Ajoy K Ray, Padmashri</b> Ex- Director, IISER, Shibpur , Ex- Professor, IIT Kharagpur	<i>Evolution of Machine Intelligence</i>	
18-30 to 19-30	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	09	Design of Portable Integrated Sensor System for Local Monitoring of Climate Change	Bansari Deb Majumder and J K Roy	<b>Prof. Debabrata Datta</b> , Ex-Scientist, BARC <b>Rapporteur: Dr. Krishna Daripa</b> , Sarsuna College, Kolkata
	71	Virtual Instrumentation System Design for a Secured Chemical Process Industry Automation	Rahul S G, Chitra R, M Madabhushi, Kavya M and Sraya Sri	
	74	Virtual Instrumentation based Graphical User Interface for Fermentation Bioprocess Monitoring using LabVIEW	Rahul S G, Chitra R, V P Kumar, P Hima S Abhishek and B O Reddy	
	81	Monitoring of automotive response based on starter motor fault	Poulomi Ganguly, S Chattopadhyay and B.N Biswas	
	85	Design, fabrication and Implementation of a Novel MWCNTs/PDMS Phosphate Sensor for agricultural applications	Fowzia Akhtar, H.R. Siddiquei, Md E E. Alahi and S C Muhopadhyay	
	IP1	Speed Control of 3-Phase Induction Motor: A Fuzzy Logic Based Novel Technique	Divya Rai & Jeetendra Rai	

## DAY-2: 20-02-2021 (Saturday)

### Technical Session-4: Devices & Systems

10-00 to 11-00	Keynote Speech 4	<b>Prof (Dr.) Mike Hinchey</b> , President, International Federation for Information Processing (IFIP)	<b><i>Building Resilient Autonomous Space Exploration Missions</i></b>	
11-00 to 12-10	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	18	Optimized FPGA implementation of 64-point pipelined FFT using folding transformation	Nafzia and L Lijesh	<b>Prof. S.K.Sanyal</b> Former Professor of ECE, Jadavpur University, Kolkata <b>Rapporteur: Dr. Anirban Das</b> , UEM, Kolkata
	35	J/K Flip-flop design using Layered T Logic: A Quantum-dot Cellular Automata-based Approach	Chiradeep Mukherjee, S Panda, A K Mukhopadhyay and B Maji.	
	44	A Smart Flow Transmitter using Ultrasonic Sensors	Praveen Maurya, S F Ali & N Mandal.	
	45	Design and development of Bending Sensor-based Pressure transducer	Anamika Lata and N Mandal	
	46	Adaptive Time Duration Computation for Parallel Arc Fault in Wind-Solar Hybrid System	Debopoma Kar Ray, T Roy and S Chattopadhyay	
	49	Development of Interactive Smart mirror for Implementation in College Environment	Bansari Deb Majumder, R Pratihar, R Saha and S Ghosh.	
	68	Synthesis of Standard Functions and Generic Ex-OR Module using Layered T Gate	Chiradeep Mukherjee, S Panda, A K Mukhopadhyay and B Maji	

### Technical Session-5: Healthcare & Environment

12-10 to 13-10	Keynote Speech 5	<b>Dr. Amit Banerjee</b> , Technocrat, Scientific Adviser, Former Scientist, ECE, NUS, Singapore, Research Institute of Electronics, Japan	<b><i>Terahertz Biomedical and Healthcare Technologies</i></b>	
13-10 to 13-40	LUNCH BREAK			
13-40 to 15-00	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	47	A Study of PCG Signal Analysis by K-Mean Clustering	Tanmay Sinha Roy, J K Roy and N Mandal.	<b>Prof. Dr. Analava Mitra</b> , Former faculty, School of Medical Technology, IIT Kharagpur <b>Rapporteur: Dr. Abhishek Das</b> , Aliah University
	50	Review of Segmentation and Classification Techniques in Computer Aided Detection of Brain Tumor from MRI	Sucharita Jena, M Panigrahy and J K Das.	
	48	An Improved Decision Support System for Automated Sleep Stages Classification based on Dual-Channels of EEG signals	Santosh Satapathy, H Kondaveeti and R Rath	
	53	Estimation of Sundarban Reserve Forest Using Self-Organizing Maps and Remote Sensing Data	Krishan Kundu, P Halder and J K Mandal	
	58	A Survey on Elderly Fall, its Impact and Technological Solutions for Fall Avoidance	Shriram K Vasudevan, S R Pulari and P R Nair	
	72	Regulation of Blood Glucose using Auto-Tuned PID Controller in Healthcare systems	Rahul S G, Chitra R, A Amruthavalli and S S Sudheer	
	73	Microwaves in Health Care Systems for Cancer Detection	Rahul S G, Chitra R, S S Sudheer and A A Valli	

<b>Technical Session-6: Statistics, Modelling, Simulation And Management</b>				
15-00 to 15-20	Keynote Speech 6	<b>Dr. Eng. Zdzislaw Polkowski</b> , The Karkonosze State University of Applied Sciences in Jelenia Góra, Poland	<i>IoT in Business and Education Technology</i>	
15-20 to 16-15	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	28	Computation of Integral Equation using Laplace Transform	Priyank Jain and Archana Lala	<b>Prof. Siddhartha</b>
	29	ENTROPY BASED INTELLIGENT COMPUTATION FOR DECISION MAKING MODELS OF PANDEMIC ANALYTICS	Debabrata Datta and J K Roy	<b>Bhattacharyya,</b>
	30	Forecasting of Summer Monsoon Rainfall over Assam and Meghalaya: An approach Intrinsic Mode Function, Linear and Neural Regression	Pijush Basak and J K Roy	Christ University, Bangalore
	43	A new path to solve fractional logistic growth model using conformable fractional derivative	Arnab Gupta	<b>Rapporteur: Dr. Nilanjana</b>
	54	Reducing Bullwhip Effect in Distributed Supply Chain Management by Virtual Data Warehouse and Modified-PROPHET	Partha Ghosh, L Jana Ghosh, N C. Debnath and S Sen	<b>Duttaroy, IEM,</b> Kolkata
16-15 to 16-30	TEA BREAK			
<b>Technical Session-7: Internet of Things and Applications</b>				
16-30 to 17-30	Keynote Speech 7	<b>Prof (Dr.) Octavian Adrian Postolache</b> Professor & Vice-Director of Instituto de Telecomunicações/ISCTE-IUL delegation, Portugal	<i>Smart Sensing and AI for Physical Therapy in IoT Era</i>	
17-30 to 18-30	<b>Paper Id</b>	<b>Topic</b>	<b>Author(s)</b>	<b>Session Chair</b>
	32	Electrical Load Clustering Using Kmeans Algorithm For Identification Of Village Clusters To Draw Optimal Power From Distributed Solar Generating Plants	Sanjay Goswami, D Sarkar and P Majumder.	<b>Prof. Debashis</b>
	33	IoT-based Laser-inscribed sensors for Electrochemical Detection of Phosphate Ions	Anindya Nag, Md. E E Alahi, N Afsarimanesh and S C Mukhopadhyay	De, Professor, CSE, Dean (Research), MAKAUT
	34	Internet of Things (IoT)- enabled Pedestrian Counting in a Smart City	Md. Eshrat E Alahi, F Akhter, A Nag, N Afsarimanesh and S C Mukhopadhyay.	<b>Rapporteur: Dr. Pranotosh Paul,</b>
	55	Development of an IoT-based Aqueous Sulfide Sensor with a rGO/AgNp Composite	Brady Shearan, F Ahkter and S C Mukhopadhyay.	Raiganj University
	57	Extracting Operational Insights from Everyday IoT Data, Generated by IoT sensors over LoRaWAN	Ollencio D'Souza, S C Mukhopadhyay, F Akhter, S Khadivizand and E Memar	
	86	An IoT based architecture for Edge Computing to reduce the latency and bandwidth for streaming data application.	Chinmoy Bharadwaj, S Saha, K K Kalita.,and A K Mukhopadhyay	
18-30 to 19-00	<b>VALEDICTORY FUNCTION</b>			