

IEEE International Conference on Computing, Electronics and Communications Engineering (iCCECE '20) 2020

17th - 18th August, 2020

~~University of Essex, Southend Campus, UK~~

To be held online as a live interactive virtual conference

IEEE iCCECE '20 Conference Programme

Day 1: 17th August 2020, Monday

Time	Session	Session Details		
08:55-09:00	Opening	Welcome address and presentation of conference statistics by Dr. Maaruf Ali (Conference Chair)		
09:00-10:00	Keynote Speech-1: - "Thin Film Photovoltaic (PV) Technology – From Inception to Successful Commercialization and Way Forward" - Professor Nowshad Amin, Institute of Sustainable Energy of Universiti Tenaga Nasional, Malaysia			
10:00- 11:00	Track-1: Energy, Power and Control Systems, Session Chair: Nowshad Amin			
	Time	Paper ID	Presenting Author	Paper Title
	10:00-10:15	13	Will Serrano	Genetic Algorithms in Intelligent Buildings
	10:15-10:30	12	Jinfeng LI	Multi-ring Subgroup Method in Characterising Highly Self-shielded Gadolinia Burnable Poison Pins for the UK EPR Nuclear Fuel Assembly
	10:30-10:45	54	Omar Hanif	Design and analysis of Fractional-order PID Controller and its variants for nonlinear process using Kalman Filter
10:45-11:00	43	Jinfeng LI	Computational Perturbation Methods for Moderator and Doppler Temperature Coefficients in the European Pressurised Reactor Core Analysis	
11:00-11:15	Break: Virtual Networking/Open Discussion			
11:15-12:15	Track-2: Communications Engineering and Vehicular Technology, Session Chair: Mahdi H. Miraz			
	Time	Paper ID	Presenting Author	Paper Title
	11:15-11:30	22	Ahmad Massud Tota Khel	A Slotted MIMO Antenna for 5G C-band Communication Systems
	11:30-11:45	25	Hong-hao Cai	A Low Complexity Decoding Algorithm Design Based on Quasi-Cyclic LDPC Codes
11:45-12:00	33	Maiass Zaher	Class-based Flow Scheduling Framework in SDN-based Data Center Networks	

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	12:00-12:15	36	Jonathan Francis Roscoe	Simulation of Malware Propagation and Effects in Connected and Autonomous Vehicles
12:15-13:00	Break: Lunch/Networking			
13:00-14:00	Keynote Speech-2: - "The data-visualisation iceberg" - Professor Jonathan C. Roberts, Bangor University, UK			
14:00-16:30	Track-3: Electronics, Circuits and Systems, Session Chair: Will Serrano			
	Time	Paper ID	Presenting Author	Paper Title
	14:00-14:15	23	Tao Dong	A CMOS Current Starved VCO for Energy Harvesting applications
	14:15-14:30	24	Uros Hudomalj	FPGA Implementations for Real-Time Processing of High-Frame-Rate and High-Resolution Image Streams
	14:30-14:45	39	Lucas Conde	SoC FPGA-based Beacon Emulator Platform for a Three-Axis Satellite Antenna
	14:45-16:00	53	Matteo Bertolucci	CCSDS 131.2-B-1 Frequency Estimation Trade-Offs and a Novel Multi-Algorithm FPGA Architecture
	16:00-16:15	81	Assim Sagahyoon	On the Use of FPGAs to implement CNNs: A Brief Review
	16:15-16:30	74	Dhaval Girish Shah	Key Value Store using High Level Synthesis Flow for Securities Trading System
16:30-18:00	Track-4: Pervasive Computing and Internet of Things (IoT), Session Chair: Jinfeng LI			
	Time	Paper ID	Presenting Author	Paper Title
	16:30-16:45	10	Will Serrano	Long Short-Term Memory in Intelligent Buildings
	16:45-17:00	49	Soha Gamal	Secure Transmission and Repository Platform for Electronic Medical Images: Case Study of Retinal Fundus in Teleophthalmology
	17:00-17:15	70	Zainab Alansari	Quality of Service in Wireless Sensor Networks using Cellular Learning Automata
	17:15-17:30	75	Muhammad Sajjad	Design of Double-Precision Fully-Programmable Computational Unit for FPGA and ASIC
	17:30-17:45	76	Nawal Khan	A Quantitative Case Study in WSNs: Design and Implementation of Student Smart ID Card

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	17:45-18:00	77	Minami Yoda	Detection of the hardcoded login information from socket symbols
18:00	End of Day 1			

Day 2: 18th August 2020, Tuesday

Time	Session	Session Details		
09:00-10:00	Keynote Speech – 3: Professor Garfield Southall, Executive Dean, Faculty of Science and Engineering, University of Chester, UK.			
10:00-12:15	Track-5.1: Computing and IT, Session Chair: Maaruf Ali and Mahdi H. Miraz			
	Time	Paper ID	Presenting Author	Paper Title
	10:00-10:15	16	Yuping Yan	Attribute-based Encryption in Cloud Computing Environment
	10:15-10:30	20	Sagar Suresh Kumar and Vijayalakshmi K	Coronary Artery Disease Detection from PCG signals using Time Domain based Automutual Information and Spectral Features
	10:30-10:45	26	Gamal Fahmy	Complex Wavelet Transform CWT Based Video Magnification for 3D Facial Video Identification
	10:45-11:00	29	Md Gulzar Hussain	Detection of Bangla Fake News using MNB and SVM Classifier
	11:00-11:15	32	Alexander Marinsek	Towards efficient wind energy monitoring: Learning more from open source data
	11:15-11:30	34	Michael Heidenreich	Implementation of an IT security measurement method for the evaluation of IT security in micro-enterprises
	11:30-11:45	40	Naina Chugh	Bangkok Tours and Activities Data Analysis via User-Generated Content
	11:45-12:00	45	Takuro Hada	Codewords Detection in Microblogs Focusing on Differences in Word Use Between Two Corpora
12:00-12:15	46	Farah Ahmed	Temporal Image Forensic Analysis for Picture Dating with Deep Learning	
12:15-12:50	Break: Lunch/Networking			
12:50-13:30	Keynote Speech – 4: Professor Andrew Ware, Faculty of Computing, Engineering and Science, University of South Wales, UK.			

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Track-5.2: Computing and IT (Continued), Session Chair: Yuping Yan				
13:20-15:20	Time	Paper ID	Presenting Author	Paper Title
	13:30-13:45	47	Assim Sagahyoon	Preliminary Melanoma Detection Mobile Application using Support Vector Machine Classification
	13:45-14:00	48	Fabian Scheidl	Valent-Blocks: Scalable High-Performance Compilation of WebAssembly Bytecode For Embedded Systems
	14:00-14:15	52	Khandaker Foysal Haque	Automatic Detection of COVID-19 from Chest X-ray Images with Convolutional Neural Networks
	14:15-14:30	60	Zeeshan Siddiqui	A Survey on Cybersecurity Challenges and Awareness for Children of all Ages
	14:30-14:45	65	Jing Wang	Image Restoration on Residual Aggregation Network in Poor Weather Condition
	14:45-15:00	78	Ferddie Canlas	Water Control System for AI Nakheel Tree Using Fuzzy Logic with Trend Analysis
	15:00-15:15	79	MANOJ KOLLAM	Earthquake Forecasting by Parallel Support Vector Regression using CUDA
	15:15-15:30	82	Raheel Robson	Heuristic Based Approach for Usability Evaluation of Mobile Games
	15:30-15:45	89	Arban Uka	Effect of Preprocessing on Performance of Neural Networks for Microscopy Image Classification
	15:45-16:00	92	Arnoldo Silva	Sentiment Parser based on X-Bar Theory to Brazilian Portuguese
	16:00-16:15	94	Oktay Koc	Iris Recognition Performance Analysis for Noncooperative Conditions
16:15-16:30	96	Maaruf Ali	Assessment of Delivery Platforms and Online Pedagogy Requirements	
16:30-16:50	Conference Closing Closing Speech Declaration of Best Paper Awards			