

CEEC 2016 – Wednesday 28th September

Time	Event
09:00 – 10:45	Tutorial “Computational Intelligence for Games” PART 1 Room: CSEE Lab 4 Speakers: Dr. Diego Pérez-Liébana
	Tutorial “Optoelectronic Devices” PART 1 Room: CSEE Lab 1 Speaker: Dr. Anthony Vickers
10:45 – 11:15	Coffee Break Room: CSEE Foyer
11:14 – 13:00	Tutorial “Computational Intelligence for Games” PART 2 Room: CSEE Lab 4 Speakers: Dr. Diego Pérez-Liébana
	Tutorial “Optoelectronic Devices” PART 2 Room: CSEE Lab 1 Speaker: Dr. Anthony Vickers
13:00 – 14:00	Lunch Break Room: CSEE Foyer
14:00 – 15:45	Tutorial “Brain Signals + Evolutionary Computation = Human Competitive Brain Computer Interfaces” PART 1 Room: CSEE Lab 1 Speaker: Professor Riccardo Poli
15:45 – 16:15	Coffee Break Room: CSEE Foyer
16:15 – 18:00	Tutorial “Brain Signals + Evolutionary Computation = Human Competitive Brain Computer Interfaces” PART 2 Room: CSEE Lab 1 Speaker: Professor Riccardo Poli

CEEC 2016 – Thursday 29th September

Time	Event		
08:30 – 09:15	Registration Room: EBS Foyer		
09:15 – 09:30	Opening Remarks Room: EBS2.2		
09:30 – 10:30	Keynote “Bridging Granular Computing and Situational Awareness : Perspective, Opportunities, Problems” Speaker: Professor Vincenzo Loia – University of Salerno (Italy) Room: EBS2.2 Chair: Hani Hagras		
10:30 – 11:00	Coffee Break Room: EBS Foyer		
11:00 – 12:00	Special Session: Special Session on Multimedia Tools and Applications I Room: EBS2.68 Chair: Laith Al-Jobouri <ul style="list-style-type: none"> 1. Refined Data Partitioning for Improved Video Prioritization. <i>Martin Fleury (University of Essex, UK) et al.</i> 2. Human Activity Recognition From Automatically Labeled Data in RGB-D Videos <i>David Jardim (Instituto Universitário de Lisboa ISCTE-IUL, Portugal) et al.</i> 3. Quaternion Linear Colour Sharpen Edges Filter Using Genetic Algorithm <i>Shagufta Yasmin (University of Essex & Sir Syed University, UK)</i> 	Networking I Room: EBS1.1 Chair: Martin Reed <ul style="list-style-type: none"> 1. Routing in Hexagonal Computer Networks: How to Present Paths by Bloom Filters Without False Positives. <i>Gokce Caylak Kayaturan (University of Essex, UK) et al.</i> 2. Hybrid Routing Scheme for Vehicular Delay Tolerant Networks <i>Sayed Fawad Ali Shah (University of Engineering & Technology, Peshawar, Pakistan);</i> 3. Utilisation of Multipath Phenomenon to Improve the Performance of BCH and RS Codes. <i>Alyaa AL-Barak (University of Northampton, United Kingdom et al.</i> 	Robotics, Vision and Control Systems I Room: EBS2.1 Chair: Andrew Starkey <ul style="list-style-type: none"> 1. Auto-tuning Sliding Mode Control for Induction Motor Drives <i>Fizatul Aini Patakor (Politeknik Merlimau Melaka, Malaysia) et al.</i> 2. Optimization of Fuzzy Logic Based for Vector Control Induction Motor Drives <i>Zulhisyam Salleh (Universiti Teknikal Malaysia Melaka, Malaysia) et al.</i> 3. Interpolation of Low Resolution Digital Elevation Models: A Comparison <i>Hemalatha Kalimuthu (Multimedia University, Malaysia) et al.</i>
12:00 – 13:00	Lunch Break Room: EBS Foyer		
13:00 – 14:00	Keynote “Worth my reading time? Computational methods for analyzing the writing style and quality of documents” Speaker: Dr Annie Louis – University of Essex		

	<p>Room: EBS2.2 Chair: Hani Hagras</p>		
14:00 – 15:00	<p>Smart Environments Room: EBS2.68 Chair: Kostas</p> <ol style="list-style-type: none"> Robot Assisted Evacuation Simulation. <i>Ibraheem Sakour (University of Essex, UK) et al.</i> An Income-Based Real-Time Pricing Algorithm Under Uncertainties in Smart Grid <i>Sahar Ahmadzadeh (University of Essex, UK) et al.</i> Towards Unobtrusive Ambient Sound Monitoring for Smart and Assisted Environments <i>Naomi Griffiths (Anglia Ruskin University, UK) et al.</i> 	<p>Networking II Room: EBS1.1 Chair: Stuart Walker</p> <ol style="list-style-type: none"> Energy- Efficient M2M Routing Protocol Based on SDCN-WISE with 6LoWPAN. <i>Wasan Twayej (Brunel University, UK) et al.</i> Change-Point Cloud DDoS Detection Using Packet Inter-Arrival Time. <i>Opeyemi Osanaiye (University of Cape Town, South Africa) et al.</i> Forward Error Correction with Physical Layer Network Coding in Two-way Relay Free Space Optical Links. <i>Zina Abu-almaalie, (Northumbria University, United Kingdom) et al.</i> 	<p>Computational Intelligence I Room: EBS2.1 Chair: Andrew Starkey</p> <ol style="list-style-type: none"> Adaptive Beamforming Algorithm Based on Simulated Kalman Filter <i>Kelvin Lazarus (Universiti Malaysia Pahang, Malaysia) et al.</i> Reversible Decision Support System: Minimising Cognitive Dissonance in Multi-Criteria Based Complex System Using Fuzzy Analytic Hierarchy Process <i>Md Mahmudul Hasan (Anglia Ruskin University, UK) et al.</i> Spectral Clustering Using the kNNMST Similarity Graph. <i>Patrick Veenstra (King's College London, United Kingdom) et al.</i>
15:00 – 15:20	Coffee Break / Room: EBS Foyer		
15:20 – 16:00	Robotics Demo Room: Robot Lab		
16:00 – 17:00	<p>Special Session: Special Session on Multimedia Tools and Applications II Room: EBS2.68 Chair: Martin Fleury</p> <ol style="list-style-type: none"> FPGA Optimization of Convolution-based 2D Filtering Processor for Image Processing <i>Gian-Domenico Licciardo (University of Salerno, Italy) et al.</i> Design and FPGA Implementation of a Real-time Processor for the HDR Conversion of Images and Videos. <i>Gian-Domenico Licciardo (University of Salerno, Italy) et al.</i> 	<p>Artificial Intelligence Room: EBS1.1 Chair: Ragini Gokhale</p> <ol style="list-style-type: none"> Class-Specific Pre-trained Sparse Autoencoders for Learning Effective Features for Document Classification. <i>Maysa Abdulhussain (University of Essex, UK) et al.</i> A Blind Source Separation Approach Based on IVA for Convulsive Speech Mixtures <i>Tariqullah Jan (University of Engineering and Technology Peshawar, Pakistan).</i> 	<p>Computational Intelligence II Room: EBS2.1 Chair: Amilia Ahmed Khozim</p> <ol style="list-style-type: none"> Clonal Selection Algorithm Parallelization with MPJExpress <i>Ayi Purbasari (Bandung Institute of Technology, Indonesia)</i> Swarm Optimization of Unmanned Aerial Vehicles for Object Localization <i>Akshar Prasanna (Visvesvaraya Technological University & BMS Institute of Technology, India) et al.</i>

	3. Video Frame Extraction for 3D Reconstruction. <i>Louis G Clift (University of Essex, UK) et al.</i>	3. Recognizing Arabic Sign Language Gestures Using Depth Sensors and a KSVM Classifier. <i>Miada A. Almasre (King AbdulAziz University, Saudi Arabia) et al.</i>	3. Network Performance Optimization Using Odd and Even Routing Algorithm <i>Siva Kumar Subramaniam (Brunel University London, UK) et al.</i>
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19:30

Conference Dinner
Greyfriars, Colchester

CEEC 2016 – Friday 30th September

Time	Event		
09:00 – 09:30	Registration Room: EBS Foyer		
09:30 – 10:30	Keynote “Augmented Reality: the Emerging Trend in Education” Speaker: Professor Minjuan Wang – Shanghai International Studies University (Oriental Scholar), China & San Diego State University, (USA) Room: EBS2.2 Chair: Anasol Peña-Rios		
10:30 – 11:00	Coffee Break Room: EBS Foyer		
11:00 – 12:00	Special Session: Special Session on Computational Finance and Big Data Room: EBS2.68 Chair: Emmanuel Ferreyra <ul style="list-style-type: none"> 1. The Use of Biweight Mid Correlation to Improve Graph Based Portfolio Construction <i>Patrick Veenstra (King's College London, UK) et al.</i> 2. Resistance -Support Pattern in Stock Markets <i>Chen Chen (University of Essex, UK).</i> 3. Quantitative Comparison Between Market Profiles Using Directional Changes <i>Ran Tao (University of Essex, UK) et al.</i> 	Human Computer Interface Room: EBS1.1 Chair: Florian Kolbl <ul style="list-style-type: none"> 1. Focus-Sensitive Dwell Time in EyeBCI: Pilot Study. <i>Giacinto Barresi (Istituto Italiano di Tecnologia, Italy) et al.</i> 2. Optimisation of the Spatial Discretisation of Myelinated Axon Models <i>Miguel Capllonch Juan (University of Essex, UK) et al.</i> 	Special Session: on Computational Intelligence and Games Room: EBS2.1 Chair: Joseph Walton-Rivers <ul style="list-style-type: none"> 1. Towards Neuroimaging Real-Time Driving Using Convolutional Neural Networks. <i>Carlos Fernandez Musoles (DeMontfort University, United Kingdom)</i> 2. Rolling Horizon Coevolutionary Planning for Two-Player Video Games <i>Jialin Liu (University of Essex, UK) et al.</i> 3. General Video Game for 2 Players: Framework and Competition <i>Raluca Gaina (University of Essex, UK) et al.</i>
12:00 – 13:00	Special Session: Immersive Technologies and Learning I Room: EBS2.68 Chair: Anasol Peña-Rios <ul style="list-style-type: none"> 1. An Event Detection Approach for Identifying Learning Evidence in Collaborative Virtual Environments <i>Samah Felemban (University of Essex, UK) et al.</i> 		Wireless Networking Room: EBS2.1 Chair: John Woods <ul style="list-style-type: none"> 1. Enabling Wireless Software Defined Networking in Cloud Based Machine-to-Machine Gateway <i>Bilal Rasheed Al-Kaseem (Brunel University London, UK) et al.</i>

	<p>2. Web-based Visualisation of Head Pose and Facial Expressions Changes: Monitoring Human Activity Using Depth Data. <i>Grigoris Kalliatakis (University of Essex & TEI Crete, UK) et al.</i></p>		<p>2. Scalable M2M Routing Protocol for Energy Efficient IoT Wireless Applications <i>Bilal Rasheed Al-Kaseem (Brunel University London, UK) et al.</i></p> <p>3. Standard Deviation Based Weighted Clustering Algorithm for Wireless Sensor Networks <i>Faris AL-Baadani (Anglia Ruskin University, UK) et al.</i></p>
13:00 – 14:00	Lunch Break Room: EBS Foyer		
14:00 – 15:00	Keynote “Modelling Variation in Reasoning to Improve Decision Making” Speaker: Professor Jonathan Garibaldi – University of Nottingham (UK) Room: EBS2.2 Chair: Simon Lucas		
15:00 – 16:00	Special Session: Immersive Technologies and Learning II Room: EBS2.68 Chair: Anasol Peña-Rios <ul style="list-style-type: none"> 1. Generation and VR Visualization of 3D Point Clouds for Drone Target Validation Assisted by an Operator <i>Louis-Pierre Bergé (Telecom Bretagne - Cranfield University, UK) et al.</i> 2. Serious Games for Fire and Rescue Training. <i>Warren Viant (University of Hull, UK) et al.</i> 		Robotics, Vision and Control Systems II Room: EBS2.1 Chair: Andrew Starkey <ul style="list-style-type: none"> 1. Building Semantic Maps for Blind People to Navigate At Home <i>Qiang Liu (University of Essex, UK) et al.</i> 2. Quadrotor Transporting with Cable-Suspended Load Using Iterative Linear Quadratic Regulator (iLQR) Optimal Control <i>Yaser Alothman (University of Essex, UK) et al.</i>
16:00- 17:00	Closing Remarks & Traditional English Tea Wivenhoe House Hotel		