CEEC 2015 – Wednesday 23rd September

Time	Event	
09:00 – 13:00	**Tutorial "Computational Intelligence for Games"** Room: CSEE Lab 4 Speakers: Professor Simon Lucas, Dr. Diego Pérez-Liébana	**Tutorial "Brain Signals + Evolutionary Computation = Human Competitive Brain Computer Interfaces"** Room: CSEE Lab 1 Speaker: Professor Riccardo Poli
13:00 – 14:00	**Lunch Break** Room: CSEE Foyer	
14:00 – 18:00	**Tutorial "Text Analytics"** Room: CSEE Lab 1 Speakers: Professor Massimo Poesio, Dr. Udo Kruschwitz	

CEEC 2015 – Thursday 24th September

Time	Event		
08:30 – 09:15	**Registration** Room: Teaching Centre – Upper Level		
09:15 – 09:30	**Opening Remarks** Room: Teaching Centre – TC2.12		
09:30 – 10:30	**Keynote "Applications of interval-valued fuzzy sets to decision making, classification and image processing"** Speaker: Professor Humberto Bustince – Public University of Navarra (Spain) Room: Teaching Centre – TC2.12 Chair: Hani Hagras		
10:30 – 11:00	**Coffee Break** Room: Teaching Centre – Lower Level		
11:00 – 12:15	**Natural Language Processing** Room: Teaching Centre – TC2.14 Chair: Aysenur Bilgin 1. An Experimental Investigation on PCA Based on Cosine Similarity and Correlation for Text Feature Dimensionality Reduction. *Maysa Abdulhussain (University of Essex, UK) et al.* 2. A New Term Weighting Scheme Based on Class Specific Document Frequency for Document Representation and Classification. *Suthira Plansangket, University of Essex, UK.* 3. Producing Domain-Specific Languages From Strategy Patterns. *Ludvig Kihlman (University of Essex, UK).*	**Electronic Engineering and Communications** Room: Teaching Centre – TC2.15 Chair: Laith Al-Jobouri 1. Fair Co-Existence of Licensed Assisted Access LTE (LAA-LTE) and Wi-Fi in Unlicensed Spectrum. *Raymond YC Kwan (Cisco Systems, UK).* 2. A Multi Polynomial CRC Circuit for LTE-Advanced Communication Standard. *Qusay Al-Doori (University of Salford, UK).* 3. Bounds on Accuracy When Estimating the Loss Probability in a Packet Buffer. *Amna Wahid (Queen Mary University of London, UK) et al.*	**Machine Learning and Artificial Intelligence** Room: Teaching Centre – TC2.8 Chair: Aisha Abdulahi 1. Elastic-Net Constrained Multiple Kernel Learning Using a Majorization-Minimization Approach. *Luca Citi (University of Essex, UK).* 2. Block-Matching Disparity Map Estimation Using Controlled Search Range. *Umar Ozgunalp (University of Bristol, UK) et al.* 3. Towards a Wearable Device for Controlling a Smartphone with Eye Winks. *Davide Valeriani (University of Essex, UK) et al.*

			4. Information Gain Measure for Structural Discrimination of Cellular Automata Configurations. *Mohammad A J Javid (Goldsmiths, University of London, UK) et al.*
12:15 – 13:30	**Lunch Break** Room: Teaching Centre – Lower Level		
13:30 – 14:30	**Keynote "Current and Future Perspectives on Communications"** Speaker: Dr Ahmed Aldabbagh – Ofcom (UK) Room: Teaching Centre – TC2.12 Chair: Laith Al-Jobouri		
14:30 – 16:00	**Special Session: Immersive Technologies and Learning – Part 1** Room: Teaching Centre – TC2.14 Chair: Michael Gardner 1. Participatory Design of Wearable Augmented Reality Display Elements for Children At Play. *Brendan Cassidy (University of Central Lancashire, UK) et al.* 2. Student Modelling and Classification Rules Learning for Educational Resource Prediction in a Multiagent System. *Kennedy E Ehimwenma (Sheffield Hallam University, UK) et al.* 3. Fuzzy Learning Performance Assessment Based on Decision Making Under Internal Uncertainty. *Sergej Prokhorov (Samara State Aerospace University, Russia) et al.* 4. Usability and Presence Evaluation of a 3D Virtual World Learning	**Special Session: Brain-Computer Interfaces – Part 1** Room: Teaching Centre – TC2.15 Chair: Ana Matran-Fernandez 1. Towards Cognitive Brain-Computer Interfaces for Patients with Amyotrophic Lateral Sclerosis. *Tatiana Fomina (Max Planck Institute for Intelligent Systems, Germany) et al.* 2. Efficient Recognition of Event-Related Potentials in High-Density MEG Recordings. *Christoph Reichert (Otto-von-Guericke University Magdeburg, Germany) et al.* 3. Towards Human-Computer Music Interaction: Evaluation of an Affectively-Driven Music Generator Via Galvanic Skin Response Measures. *Ian Daly (University of Reading, UK) et al.* 4. Quantification of SSVEP Responses Using Multi-Chromatic LED Stimuli:	**Robotics and Intelligent Systems** Room: Teaching Centre – TC2.8 Chair: Davide Valeriani 1. Resource Allocation in LTE-Advanced Network: A Collaborative Market Game Approach. *Onu Egena (University of Salford, UK) et al.* 2. Development of Magnetic Adhesion Based Climbing Robot for Non-Destructive Testing. *MD Omar Howlader (London South Bank University, UK) et al.* 3. On Association Rules Mining in Context of Wireless Networks. *Raymond YC Kwan (Cisco Systems, UK) et al.* 4. Virtual Commissioning and Symbolic Planning of Micro-Optical Assembly Processes. *Nils Wantia (RWTH Aachen University, Germany) et al.*

	Environment Simulating Information Security Threats. *Ioannis Ntokas (Hellenic Open University, Greece) et al.*	Analysis on Colour, Orientation and Frequency. *Surej Mouli (University of Kent, UK) et al.*	
16:00 – 16:15	**Coffee Break** Room: Teaching Centre – Lower Level		
16:15 – 17:30	**Special Session: Immersive Technologies and Learning – Part 2** Room: Teaching Centre – TC2.14 Chair: Anasol Peña-Rios 1. Adaptive Virtual Environments - A Physiological Feedback HCI System Concept. *Mohammadhossein Moghimi (University of Birmingham, UK) et al.* 2. Development of a Universal Design for Learning-Based Teaching Collaborative System (UDL-BTCS) to Support Accessible Learning. *Ahmed Al-Azawei (University of Reading, UK) et al.* 3. An Empirical Study Inspecting the Benefits of Gamification Applied to University Classes. *Wojciech Frącz (AGH University of Science and Technology, Poland).* 4. Reconceiving Digital Textures with Customizable Haptic Rendering. *Sunil Nair (Cognizant Technology Solutions, India) et al.*	**Special Session: Brain-Computer Interfaces – Part 2** Room: Teaching Centre – TC2.15 Chair: Ana Matran-Fernandez 1. An Enhanced Treatment and Evaluation System for Myofascial Pain Syndrome. *Cheng-Huei Yang (National Kaohsiung Marine University, Taiwan).* 2. Fractal Dimension Based Neurofeedback Training to Improve Cognitive Abilities. *Yisi Liu (Fraunhofer IDM@NTU, Singapore) et al.* 3. Detecting and Comparing the Onset of Self-Paced and Cue-Based Finger Movements From EEG Signals. *Jovana Belic (KTH Royal Institute of Technology, Sweden) et al.*	
19:30	**Conference Dinner** Greyfriars, Colchester (UK)		

CEEC 2015 – Friday 25th September

Time	Event	
09:00 – 09:30	**Registration** Room: Teaching Centre – Upper Level	
09:30 – 10:30	**Keynote "Swarm Intelligence: from theory to application in technical systems"** Speaker: Professor Sanaz Mostaghim – University of Magdeburg (Germany) Room: Teaching Centre – TC2.12 Chair: Simon Lucas	
10:30 – 11:00	**Coffee Break** Room: Teaching Centre – Lower Level	
11:00 – 12:15	**Special Session: Multimedia Tools and Applications** Room: Teaching Centre – TC2.14 Chair: Laith Al-Jobouri 1. Video Over DSL with LDGM Codes for Interactive Applications. *Filippo Casu (Universidad Politécnica de Madrid, Spain) et al.* 2. Quality Test for 3D Video Streaming System Over WLAN. *Zainab Sultani (University of Technology, Iraq) et al.* 3. A Jitter-Tolerant Scheduling Algorithm to Improve Continuity in Scalable Video Streaming. *Atinat Palawan (University of Essex, UK) et al.* 4. Objective Quality Assessment of 3D Stereoscopic Video Based on Motion Vectors and Depth Map Features. *Sawsen Mahmood (University of Technology, Iraq) et al.*	**Computational Intelligence and Robotics** Room: Teaching Centre – TC2.15 Chair: Humberto Bustince 1. Computational Intelligence Technique in Optimization of Nano-process Deposition Parameters. *Norlina Mohd Sabri (Universiti Teknologi Mara, Malaysia).* 2. Determining Positions and Distances Using Collaborative Robots. *Louis G Clift (University of Essex, UK) et al.* 3. Robotic Aid in Crowd Evacuation Simulation. *Ibraheem Sakour (University of Essex, UK) et al.*
12:15 – 13:30	**Lunch Break** Room: Teaching Centre – Lower Level	
13:30 – 14:30	**Keynote "Intelligent Health Monitoring for Wind Turbine Asset Management"** Speaker: Professor Simon Watson – Loughborough University (UK) Room: Teaching Centre – TC2.12 Chair: Davide Valeriani	

14:30 – 16:15	**Special Session: Computational Intelligence and Games** Room: Teaching Centre – TC2.14 Chair: Diego Perez-Liebana 1. High Performance Encapsulation in Casanova 2. *Mohamed Abbadi (Ca'Foscari University, Italy) et al.* 2. Procedural Level Generation with Answer Set Programming for General Video Game Playing. *Xenija Neufeld (Otto-von-Guericke-University, Germany) et al.* 3. A Procedural Generation Framework for a Robot Construction Game. *Michele Vinciguerra (University of Derby, UK) et al.* 4. Monte Carlo Tree Search Applied to Co-operative Problems. *Piers Williams (University of Essex, UK) et al.*	**Electronic and Communications Systems** Room: Teaching Centre – TC2.15 Chair: John Woods 1. Low-Cost Programmable Battery Dischargers and Application in Battery Model Identification. *Karsten Propp (Cranfield University, UK) et al.* 2. On the Detection of Grey Hole and Rushing Attacks in Self-Driving Vehicular Networks. *Khattab M. Ali (University of Essex, UK) et al.* 3. On Autonomous Energy-Saving Mechanism for Self-Organizing LTE Networks. *Raymond YC Kwan (Cisco Systems, UK) et al.* 4. Electric Vehicle Battery Model Identification and State of Charge Estimation in Real World Driving Cycles. *Abbas Fotouhi (Cranfield University, UK) et al.* 5. Wireless Synchronization and Interference Alignment with Limited Interferer for Distributed Large Scale Multiuser MIMO. *Savitri Galih (Duisburg Essen University, Germany).*
16:15 – 16:30	**Coffee Break** Room: Teaching Centre – Lower Level	
16:30 – 17.15	**Competition Session** Room: Teaching Centre – TC2.12 Chair: Spyridon Samotrakis	
17:15 – 17:45	**Awards and Closing Remarks** Room: Teaching Centre – TC2.12	