

CONFERENCE AGENDA

DAY 1 (5th September)

- 8:00 am Delegates Check-in
- 8:30 am - 11:00 am **KEYNOTE TALKS**
Elizabeth Churchill, Google
Grega Milcinski, Sinergise
Iain Brown, SAS UK&I
- 11:00 am - 11:30 am **POSTER PRESENTATIONS/ NETWORKING BREAK**
- 11:30 am - 12:45 pm **PAPER PRESENTATIONS**
Session 1: Smart Healthcare
Session 2: Natural Language Processing
Session 3: Fuzzy Logic
Session 4: Ambient Intelligence
- 12:45 pm - 1:30 pm **LUNCH**
- 1:30 pm - 3:30 pm **PAPER PRESENTATIONS**
Session 5: Smart Healthcare
Session 6: Natural Language Processing
Session 7: Ambient Intelligence
Session 8: Neural Networks
- 3:30 pm - 3:45 pm **NETWORKING BREAK**
- 3:45 pm - 5:15 pm **PAPER PRESENTATIONS**
Session 9: Smart Healthcare
Session 10: Machine Vision
Session 11: Ambient Intelligence
Session 12: Computational Intelligence
- 5:30 pm - 10:00 pm **EVENING LONDON TOUR**

DAY 2 (6th September)

- 8:00 am Delegates Arrive
- 8:30 am - 10:30 am **KEYNOTE TALKS**
Keith Clark, Imperial College
Giulio Sandini, Istituto Italiano di Tecnologia
Detlef D Nauck, BT Technology
- 10:30 am - 11:00 am **POSTER PRESENTATIONS/ NETWORKING BREAK**
- 11:00 am - 12:45 pm **PAPER PRESENTATIONS**
Session 13: Deep Learning
Session 14: Human Computer Interaction
Session 15: Data Science
Session 16: Robotics
- 12:45 pm - 1:30 pm **LUNCH**
- 1:30 pm - 3:30 pm **PAPER PRESENTATIONS**
Session 17: Deep Learning
Session 18: Artificial Intelligence
Session 19: Data Science
Session 20: Robotics
- 3:30 pm - 3:45 pm **NETWORKING BREAK**
- 3:45 pm - 5:45 pm **PAPER PRESENTATIONS**
Session 21: Intelligent Transportation
Session 22: Artificial Intelligence
Session 23: Data Science
Session 24: Smart Cities
- 5:45 pm - 6:00 pm **CLOSING CEREMONY**

5th September 2019 (11:00 am - 11:30 am)

POSTER PRESENTATIONS

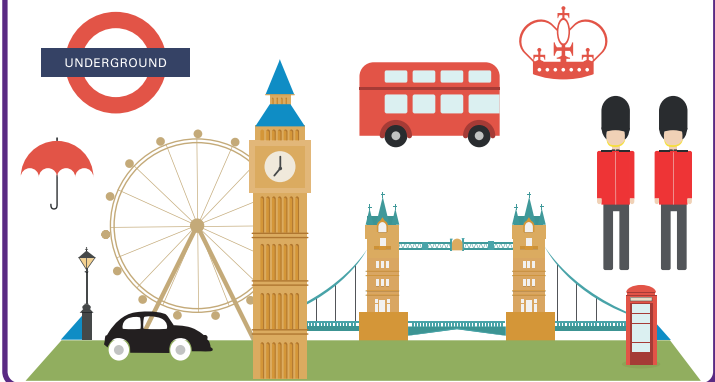
- 86 - Improving Human-machine Interaction for a Powered Wheelchair Driver by using Variable-switches and Sensors that Reduce Wheelchair-veer (Presenter: **Martin Langner**)
- 92 - De-Noising Signals using Wavelet Transform in Internet of Underwater Things (Presenter: **Asiya Khan**)
- 95 - Using Experts' Perceptual Skill for Dermatological Image Segmentation (Presenter: **Qiao Li**)
- 104 - Applications of Gaussian Process Latent Variable Models in Finance (Presenter: **Rajbir-Singh Nirwan, Nils Bertschinger**)
- 117- Channel-wise Reconstruction-based Anomaly Detection Framework for Multi-Channel Sensor Data (Presenter: **Mingu Kwak**)
- 287 - Intelligent Method for 3D Image Display with Semitransparent Object Representations (Presenter: **Kohei Arai**)
- 342 - Estimation of Average Information Content: Comparison of Impact of Contexts (Presenter: **Max Koelbl, Yuki Kyogoku**)
- 366 - Fuzzy Controller for Sun Tracking (Using Image Processing) (Presenter: **Ali Hamouda**)
- 381 - GMC: Grid based Motion Clustering in Dynamic Environment (Presenter: **Handuo Zhang**)
- 429 - Rising from Systemic to Industrial Artificial Intelligence Applications (AIA) for Predictive Decision Making (PDM) - Four Examples (Presenter: **Bernhard Heiden, Bianca Tonino-Heiden**)

EVENING LONDON TOUR ON 5th September!

5:30 pm - 8:00 pm: Panoramic coach tour seeing St Paul's Cathedral, the City of London, Hyde Park Corner, Big Ben and the Houses of Parliament, Whitehall, Trafalgar Sq, The Strand and more.

8:00 pm - 10:00 pm: Stopover at Covent Garden (has great dining options - delegates to pay on their own)

10 pm: Disembark and Transfer back to the conference venue



5th September (11:30 am - 12:45 pm)

PAPER PRESENTATIONS

Session 1: Smart Healthcare Session Chair: Asiya Khan (Primrose Hill 1)	Session 2: Natural Language Processing Session Chair: Raheleh Jafari (Primrose Hill 2)	Session 3: Fuzzy Logic Session Chair: Amin Hajizadeh (Primrose Hill 3)	Session 4: Assistive Technology Session Chair: Mo Adda (Camden 1)
<p>274 - Using Local Binary Patterns and Convolutional Neural Networks for Melanoma Detection (Presenter: Mukti Akter)</p> <p>360 - Escaping Diagnosability and Entering Uncertainty in Temporal Diagnosis of Discrete-Event Systems (Presenter: Nicola Bertoglio)</p> <p>11 - Blood Glucose Level Prediction using Optimized Neural Network for Virtual Patients (Presenter: Usman Qamar)</p> <p>407 - On Applying Ambient Intelligence to Assist People with Profound Intellectual and Multiple Disabilities (Presenter: Michal Kosiedowski)</p> <p>168 - Artificial Intelligent (AI) Clinical Edge for Voice Disorder Detection (Presenter: Chandrasekar Vuppalapati)</p>	<p>128 - Reflective Writing Analysis Approach based on Semantic Concepts: An Evaluation of WordNet Affect Efficiency (Presenter: Huda Alrashidi)</p> <p>131 - Semantic-based Feedback Recommendation for Automatic Essay Evaluation (Presenter: Tsegaye Misikir Tashu)</p> <p>235 - LIT: Rule based Italian Lemmatizer (Presenter: Antonio Guerrieri)</p> <p>41 - Word Similarity Computing based on HowNet and Synonymy Thesaurus (Presenter: Hongmei Nie)</p>	<p>152 - Effect of the Delay in Fuzzy Attitude Control for Nanosatellites (Presenter: Álvaro Bello)</p> <p>158 - User-friendly Interface for Introducing Fuzzy Criteria into Expressive Searches (Presenter: Susana Muñoz Hernández)</p> <p>361 - Fuzzy Optimal State Observers for Takagi-Sugeno Fuzzy State Feedback Control (Presenter: Basil Mohammed Al-Hadithi)</p> <p>64 - Fuzzy Control Techniques for Energy Conversion Systems (Presenter: Silvio Simani)</p> <p>70 - Fuzzy Sliding Mode Control of Onboard Power Electronics for Fuel Cell Electric Vehicles (Presenter: Amin Hajizadeh)</p>	<p>84 - Initial Results from using Preference Ranking Organization Methods for Enrichment of Evaluations to Help Steer a Powered Wheelchair (Presenter: Malik Jamal Musa Haddad)</p> <p>85 - Using a Simple Expert System to Assist a Powered Wheelchair User (Presenter: David Sanders)</p> <p>87 - Combining Multiple Criteria Decision Making with Vector Manipulation to Decide on the Direction for a Powered Wheelchair (Presenter: Malik Jamal Musa Haddad)</p> <p>88 - Intelligent Approach to Minimizing Power Consumption in a Cloud-based System collecting Sensor Data and Monitoring the Status of Powered Wheelchairs (Presenter: Ogechukwu Okonor)</p> <p>89 - Task Programming Methodology for Powered Wheelchairs (Presenter: Giles E Tewkesbury)</p> <p>90 - Indoor Location and Collision Feedback for a Powered Wheelchair System using Machine Learning (Presenter: Nils Bausch)</p>

5th September (1:30 pm - 3:30 pm)

PAPER PRESENTATIONS

Session 5: Smart Healthcare Session Chair: Asiya Khan (Primrose Hill 1)	Session 6: Natural Language Processing Session Chair: Rafet Sifa (Primrose Hill 2)	Session 7: Ambient Intelligence Session Chair: Michael Farmer (Primrose Hill 3)	Session 8: Neural Networks Session Chair: Amin Hajizadeh (Camden 1)
<p>163 - Development of High Rate Wearable MIMU Tracking System Robust to Magnetic Disturbances and Body Acceleration (Presenter: Hammad Tanveer Butt)</p> <p>93 - Color Signal Processing Methods for Webcam-based Heart Rate Evaluation (Presenter: Mikhail Kopeliovich)</p> <p>430 - Style Transfer for Dermatological Data Augmentation (Presenter: Tamás Nyíri)</p> <p>278 - A Hybrid Model to Predict Glucose Oscillation for Patients with Type 1 Diabetes and Suggest Customized Recommendations (Presenter: Joao Paulo Aragao Pereira)</p> <p>96 - Genetic Algorithm based Selection of Appropriate Biomarkers for Improved Breast Cancer Prediction (Presenter: Arnab Mishra, Pinki Roy)</p> <p>405 - A Machine Learning Approach for Classification of Tremor- a Neurological Movement Disorder (Presenter: Rajesh Ranjan)</p> <p>77 - A Review of Continuous Blood Glucose Monitoring and Prediction of Blood Glucose Level for Diabetes Type 1 Patient in Different Prediction Horizons (PH) using Artificial Neural Network (ANN) (Presenter: Usman Qamar)</p>	<p>353 - Advanced Similarity Measures using Word Embeddings and Siamese Networks in CBR (Presenter: Kareem Amin)</p> <p>203 - Figurative Language Grounding in Humanoid Robots (Presenter: Maja Gwozdz)</p> <p>214 - Nomen Meum Earl: Yet Another Route to Intelligent Machine Behavior (Presenter: Chris Lanz)</p> <p>99- A Comparison of fast Text Implementations using Arabic Text Classification (Presenter: Nuha Alghamdi)</p> <p>205 - Masdar: A Novel Sequence-to-Sequence Deep Learning Model for Arabic Stemming (Presenter: Mohamed Fouad)</p> <p>313 - Predicting Sentiment in Yoruba Written Texts: A Comparison of Machine Learning Models (Presenter: Abimbola Rhoda Iyanda)</p>	<p>44 - Efficient Heuristics for Solving Precedence Constrained Scheduling Problems (Presenter: Amy Khalfay)</p> <p>45 - Solving the Service Technician Routing and Scheduling Problem with Time Windows (Presenter: Amy Khalfay)</p> <p>332 - Network Modeling of the Structure of Conceptual Experience in the Context of Intellectual Competence in Older Adolescence (Presenter: Yana Sipovskaya)</p> <p>374 - Using Low-level Sensory Data to Recognize Events in a Smart Home (Presenter: Thomas Reichherzer)</p> <p>438 - A Novel AI based Optimization of Node Selection and Information Fusion in Cooperative Wireless Networks (Presenter: Yuan Gao)</p> <p>368 - Mixed Reality for Industry? An Empirical User Experience Study (Presenter: Olli I. Heimo)</p> <p>236 - A Path towards Understanding Factors Affecting Crash Severity in Autonomous Vehicles using Current Naturalistic Driving Data (Presenter: Anahita Khojandi, Neda Masoud)</p>	<p>303 - Symmetry Constrained Machine Learning (Presenter: Doron Bergman)</p> <p>359 - An Integrated SEM-Neural Network for Predicting and Understanding the Determining Factor for Institutional Repositories Adoption (Presenter: Rusli Abdullah)</p> <p>365 - Load Balancing using Neural Networks Approach for Assisted Content Delivery in Heterogeneous Network (Presenter: Raid Sakat)</p> <p>178 - Development of an Interactive Virtual Reality for Medical Skills Training Supervised by Artificial Neural Network (Presenter: Shabnam Sadeghi Esfahlani)</p> <p>194 - Toward Robust Image Classification (Presenter: Alta Graham)</p> <p>66 - Intelligent Flower Detection System using Machine Learning (Presenter: Amna Safar)</p> <p>387 - Combining Diffusion Processes for Semi-Supervised Learning on Graph Structured Data (Presenter: Muhammad Moinuddin)</p> <p>268 - Determining the Number of Hidden Layers in Neural Network by using Principal Component Analysis (Presenter: Muh. Ibnu Choldun R.)</p>

5th September (3:45 pm - 5:15 pm)

PAPER PRESENTATIONS

Session 9: Smart Healthcare Session Chair: Asiya Khan (Primrose Hill 1)	Session 10: Machine Vision Session Chair: Shabnam Sadeghi Esfahlani (Primrose Hill 2)	Session 11: Ambient Intelligence Session Chair: Thomas Reichherzer (Primrose Hill 3)	Session 12: Computational Intelligence Session Chair: Rafet Sifa (Camden 1)
<p>281 - Modeling a Vulnerability Index for Leprosy using Spatial Analysis and Artificial Intelligence Techniques in a Hyperendemic Municipality in the Amazon (Presenter: Guilherme Conde, Valney Conde)</p> <p>212 - Novel Synchronous Brain Computer Interface based on 2-D EEG Local Binary Patterning (Presenter: Giovanni Mezzina)</p> <p>320 - Ensemble Approach for Left Ventricle Segmentation (Presenter: Chen Avni)</p> <p>6- Dynamic Scaling of EEG Fluctuations of Patients with Learning Disorders based on Artificial Intelligence (Presenter: Jesus Escobar)</p> <p>389- Can Machine Learning be used to Discriminate between Burns and Pressure Ulcer? (Presenter: Aliyu Abubakar)</p> <p>263 - Design and Implementation of the IMU Human Body Motion Tracking System (Presenter: Qi Jin)</p>	<p>338 - LSTM-based Facial Performance Capture using Embedding between Expressions (Presenter: Hsien-Yu Meng)</p> <p>341 - Automatic Curation System using Multimodal Analysis Approach (MAA) (Presenter: Mei Song)</p> <p>91 - Voice Recognition based System to Adapt Automatically the Readability Parameters of a User Interface (Presenter: Helene Soubaras van den Broek)</p> <p>108 - A Machine-Synesthetic Approach To DDoS Network Attack Detection (Presenter: Anna Kuznetsova)</p> <p>370 - Person Detection in Thermal Videos using YOLO (Presenter: Marina Ivacic-Kos)</p> <p>378 - Implementation of a Hybridized Machine Learning Framework for Flood Risk Management (Presenter: Charles Akinyokun)</p>	<p>179 - Demo : Using Automated State Space Planning for Effective Management of Visual Information and Learner's Attention in Virtual Reality (Presenter: Opeoluwa Ladeinde)</p> <p>237 - Measuring and Reducing the Cognitive Load for the End Users of Complex Systems (Presenter: James Oakes)</p> <p>323 - Statistical Model Checking of Cyber-Physical Systems using Hybrid Theatre (Presenter: Libero Nigro)</p> <p>423 - The Role of Corporate Ontology in the IT Support of Processes Management (Presenter: Leszek Ziora)</p> <p>28 - Agent-based Simulation of Cultural Events Impact on Social Capital Dynamics (Presenter: Darius Plikynas)</p> <p>350 - Asymmetric Information and e-Tourism: Literature Review (Presenter: Hicham Sattar)</p>	<p>113 - Genetic Algorithm Modeling for Photocatalytic Elimination of Impurity in Wastewater (Presenter: Raheleh Jafari)</p> <p>410 - Turbines Allocation Optimization in Hydro Plants via Computational Intelligence (Presenter: Ramon Abritta)</p> <p>295 - A Sensitivity Analysis for Harmony Search with Multi-parent Crossover Algorithm (Presenter: Iyad Abu Doush)</p> <p>259 - A High Resolution and Low Jitter 5-bit Flash TDC Architecture for High Speed Intelligent Systems (Presenter: Jagdeep Sahani, Alpana Agarwal)</p> <p>300 - Decentralized Autonomous Corporations (Presenter: Craig Wright)</p> <p>302 - A Proof of Turing Completeness in Bitcoin Script (Presenter: Craig Wright)</p>

6th September (11:00 am - 12:45 pm)

PAPER PRESENTATIONS

Session 13: Deep Learning Session Chair: Thomas Reichherzer (Primrose Hill 1)	Session 14: Human Computer Interaction Session Chair: Rafet Sifa (Primrose Hill 2)	Session 15: Data Science Session Chair: Stephen Adams (Primrose Hill 3)	Session 16: Robotics Session Chair: Malik Haddad (Camden 1)
<p>209 - Propositional Deductive Inference by Semantic Vectors (Presenter: Douglas Summer-Stay)</p> <p>76 - Development of Real-time ADAS Object Detector for Deployment on CPU (Presenter: Daniil Osokin, Alexander Kozlov)</p> <p>124 - Opponent Modeling under Partial Observability in StarCraft with Deep Convolutional Encoder-Decoders (Presenter: Seoung Bum Kim, Hyungu Kahng)</p> <p>394 - Predicting Emerging and Frontier Stock Markets using Deep Neural Networks (Presenter: Hima Bindu Vadapalli)</p> <p>431 - Application of Transfer Learning for Object Detection on Manually Collected Data (Presenter: Elhassan Nazir Riad Mohamed)</p> <p>447 - An Optimized Deep Convolutional Neural Network Architecture for Concept Drifted Image Classification (Presenter: Manzoor Ahmed Hashmani)</p> <p>325 - Characterizing High Level LIGO Gravitational Wave Data using Deep Learning (Presenter: Lavika Goel)</p>	<p>310 - Artificial Swarm Intelligence (Presenter: Louis Rosenberg)</p> <p>388 - A Pilot Study on Estimating Players Dispositional Profiles from Game Traces Analysis (Presenter: Abir Karami)</p> <p>297 - Artificial Intelligence Teaching Methods in Higher Education (Presenter: Yi Yang, Jiasong Sun)</p> <p>348 - Conversational user Interface Integration in Controlling IoT Devices Applied to Smart Agriculture: Analysis of a Chatbot System Design (Presenter: Michail Papoutsidakis)</p> <p>382 - Automation of Teaching Processes on e-Learning Platforms using Recommender Systems (Presenter: Marcin Albinia)</p> <p>231 - Exploring the Uncanny Valley Theory in the Constructs of a Virtual Assistant Personality (Presenter: Sarita Saffon)</p> <p>160 - Designing an Artefact for Sharing and Reusing Teaching Practices in Higher Education Institutions: An Exploratory Study (Presenter: Nouf Almujaally)</p>	<p>150 - A Machine Learning Approach to Shipping Box Design (Presenter: Guang Yang)</p> <p>155 - Utilizing Local Outlier Factor for Open-Set Classification in High-Dimensional Data - Case Study Applied for Text Documents (Presenter: Szymon Datko)</p> <p>217 - Semantic Topic Discovery for Lecture Video (Presenter: Mao Lin Huang)</p> <p>225 - Who has Better Driving Style: Let Data Tell Us (Presenter: Huan Li)</p> <p>228 - A Hierarchical Missing Value Imputation Method by Correlation-based K-Nearest Neighbors (Presenter: Xiaochen Lai)</p> <p>294 - Predicting the Success of Kickstarter Projects in the US at Launch Time (Presenter: Weifeng Hu)</p> <p>362 - Patterns and Outliers in Temporal Point Processes (Presenter: Kostadin Cvejovski)</p> <p>13 - A Dynamic Ensemble Selection Framework using Dynamic Weighting Approach (Presenter: Usman Qamar)</p>	<p>424 - Robot Navigation with PolyMap, a Polygon-based Map Format (Presenter: LE Xuan Sang)</p> <p>363 - Towards Partner-Aware Humanoid Robot Control under Physical Interactions (Presenter: Yeshasvi Tirupachuri)</p> <p>197 - Human Digital Twin: Enabling Human-Multi Smart Machines Collaboration (Presenter: Wael Hafez)</p> <p>229 - Using Local Objects to Improve Estimation of Mobile Object Coordinates and Smoothing Trajectory of Movement by Autoregression with Multiple Roots (Presenter: Nikita Andriyanov)</p> <p>269 - An Empirical Review of Calibration Techniques for the Pepper Humanoid Robot's RGB and Depth Camera (Presenter: Avinash Kumar Singh)</p> <p>275 - Convolutional Neural Network Applied to the Gesticulation Control of an Interactive Social Robot with Humanoid Aspect (Presenter: César Augusto Granizo López)</p> <p>351 - Automation of Synthesized Optimal Control Problem Solution for Mobile Robot by Genetic Programming (Presenter: Askhat Diveev)</p>

6th September (1:30 pm - 3:30 pm)

PAPER PRESENTATIONS

Session 17: Deep Learning Session Chair: Kohei Arai (Primrose Hill 1)	Session 18: Artificial Intelligence Session Chair: Stephen Adams (Primrose Hill 2)	Session 19: Data Science Session Chair: Nils Bertschinger (Primrose Hill 3)	Session 20: Robotics Session Chair: Nils Bausch (Camden 1)
<p>162 - Application of Deep Learning for the Diagnosis of Cardiovascular Diseases (Presenter: Giovannah Gogf)</p> <p>166 - Anticipating next goal for robot plan prediction (Presenter: Fiora Pirri)</p> <p>333 - Hyper-spectral Image Classification by Multi-layer Deep Convolutional Neural Networks (Presenter: Tao Chi)</p> <p>285 - Deep Learning: A Brazilian Case (Presenter: Dora Kaufman)</p> <p>344 - ROM-based Deep Learning Inference for Sleep Stage Classification (Presenter: Mohamed H. Al-Meer)</p> <p>127 - Object Localization and Detection for Real-Time Automatic License Plate Detection (ALPR) System using RetinaNet Algorithm (Presenter: Rubiyah Yusuf)</p> <p>240 - Shape Reconstruction from a Monocular Defocus Image using CNN (Presenter: Alex Noel Joseph Raj)</p>	<p>12 - Can Human Evidence Accumulation be Modeled using the Set-Theoretic Nature of Dempster-Shafer Theory? (Presenter: Michael Farmer, Samantha Lang)</p> <p>22 - A Switching Approach that Improves Prediction Accuracy for Long Tail Recommendations (Presenter: Gharbi Alshammari)</p> <p>25 - A Novel Algorithm for Dynamic Student Profile Adaptation based on Learning Styles (Presenter: Shaimaa Nafea)</p> <p>262 - Location Tracking and Location Prediction Techniques for Smart Traveler Apps (Presenter: Abdullah Zawawi Talib)</p> <p>343 - Cloud Capacity Planning based on Simulation and Genetic Algorithms (Presenter: Riyadh AL-Khalidi)</p> <p>369 - Simulation of Artificially Generated Intelligence from an Object Oriented Perspective (Presenter: Balint Fazekas)</p> <p>200 - Bitcoin: A Total Turing Machine (Presenter: Craig Wright)</p> <p>284 - Frustrated Equilibrium of Asymmetric Coordinating Dynamics in a Marketing Game (Presenter: Matthew Reyes)</p>	<p>401 - Firemen Prediction by using Neural Networks: A Real Case Study (Presenter: Nourredine Zerhouny)</p> <p>408 - A Community Detection Based Approach for Exploring Patterns in Player Reviews (Presenter: Maren Pielka, Rafet Sifa)</p> <p>21 - Immune Inspired Dendritic Cell Algorithm for Stock Price Manipulation Detection (Presenter: Baqar Rizvi)</p> <p>440 - An Effective and Efficient Constrained Ward's Hierarchical Agglomerative Clustering Method (Presenter: Abeer Aljohani)</p> <p>443 - High Dimensional Restrictive Federated Model Selection with Multi-objective Bayesian Optimization over Shifted Distributions (Presenter: Xudong Sun)</p> <p>441 - Embedding Intelligence within Data Points for a Machine Learning Framework: "Hex-Elementization" (Presenter: Bhuvan Unhelkar)</p> <p>115 - High Quality Dataset for Machine Learning in the Business Intelligence Domain (Presenter: Federico Sergiani)</p>	<p>422 - Terrain Classification using W-K Filter and 3D Navigation with static collision avoidance (Presenter: João Pedro Carvalho)</p> <p>428 - Identification of Motor Parameters on Coupled Joints (Presenter: Nuno Guedelha)</p> <p>403 - Teleexistence and Teleoperation for Walking Humanoid Robots (Presenter: Giulio Romualdi)</p> <p>395 - Momentum-Based Topology Estimation of Articulated Objects (Presenter: Yeshasvi Tirupachuri)</p> <p>157 - Intrusion Detection in Robotic Swarms (Presenter: Allan Tomlinson, Ian Sargeant)</p> <p>202 - 'If You Agree With Me, Do I Trust You?': An Examination of Human-Agent Trust from a Psychological Perspective (Presenter: Masooda Bashir)</p> <p>30 - Analysis of the Stability, Control and Implementation of Real Parameters of the Robot Walking (Presenter: Arbnor Pajaziti)</p>

6th September (3:45 pm - 5:45 pm)

PAPER PRESENTATIONS

Session 21: Intelligent Transportation Session Chair: Giles Tewkesbury (Primrose Hill 1)	Session 22: Artificial Intelligence Session Chair: Michael Farmer (Primrose Hill 2)	Session 23: Data Science Session Chair: Nils Bertschinger (Primrose Hill 3)	Session 24: Smart Cities Session Chair: Kohei Arai (Camden 1)
<p>159 - Improving Urban Air Quality through Long-Term Optimisation of Vehicle Fleets (Presenter: Darren Chitty)</p> <p>79 - Pedestrian Recognition and Obstacle Avoidance for Autonomous Vehicles using Raspberry Pi (Presenter: Asiya Khan)</p> <p>204 - Analysing Data Set of the Bike-sharing System Demand with R Scripts: Mexico City Case (Presenter: Luis A. Moncayo-Martínez)</p> <p>27 - Real-time Lane Detection and Extreme Learning Machine based Tracking Control for Intelligent Self-driving Vehicle (Presenter: Oualid Doukhi, Deok-Jin Lee)</p> <p>393 - Automobile Automation and Lifecycle: How Digitalisation and Security Issues Affect the Car as a Product and Service? (Presenter: Antti Hakkala)</p> <p>402 - Less-than-truckload Shipper Collaboration in the Physical Internet (Presenter: Xiaoqiang Cai)</p> <p>417 - Smartphone-based Intelligent Driver Assistant: Context Model and Dangerous State Recognition Scheme (Presenter: Igor Lashkov)</p>	<p>201 - Agent-based Turing-Complete Transactions Integrating Feedback within a Blockchain System (Presenter: Craig Wright)</p> <p>380 - Robustness of Keystroke Dynamics Identification Algorithms against Brain-wave Variations Associated with Emotional Variations (Presenter: Enrique P. Calot, Jorge Ierache)</p> <p>267 - HORUS: An Emotion Recognition Tool (Presenter: Paulo Novais)</p> <p>196 - Feature Selection for Hidden Markov Models with Discrete Features (Presenter: Stephen Adams)</p> <p>265 - Timing Attacks on Machine Learning: State of the Art (Presenter: Mazaher Kianpour)</p> <p>426 - Explanatory AI for Pertinent Communication in Autonomic Systems (Presenter: Marius Pol)</p> <p>264 - Implementation Aspects of Tensor Product Variable Binding in Connectionist Systems (Presenter: Alexander Demidovskij)</p>	<p>69 - An Analysis on the Weibo Topic "US-China Trade War" based on K-Means Algorithm (Presenter: Shaochi Cheng)</p> <p>427 - Visual Ontology Sketching for Preliminary Knowledge Base Design (Presenter: Tatiana Gavrilova)</p> <p>71 - Exploring Transfer Learning for Low Resource Emotional TTS (Presenter: Noé Tits)</p> <p>109 - Emotional Speech Datasets for English Speech Synthesis Purpose : A Review (Presenter: Noé Tits)</p> <p>439 - Impact of the Structure of Data Pre-processing Pipelines on the Performance of Classifiers when Applied to Imbalanced Network Intrusion Detection System Dataset (Presenter: Intisar Al-Mandhari)</p> <p>16 - Applying Feature Selection and Weight Optimization Techniques to Enhance Artificial Neural Network for Heart Disease Diagnosis (Presenter: Usman Qamar)</p> <p>199 - Big Data Modelling for Predicting Side-Effects of Anticancer Drugs: A Comprehensive Approach (Presenter: Jyothi Singaraju)</p>	<p>106 - Deep Learning based Pedestrian Detection at Distance in Smart Cities (Presenter: Philip Easom)</p> <p>101 - The Functional Design Method for Public Buildings together with Gamification of Information Models Enables Smart Planning by Crowdsourcing and Simulation and Learning of Rescue Environments (Presenter: Markku Rossi)</p> <p>173 - D2C-DM: Distributed-to-Centralized Data Management for Smart Cities based on Two Ongoing Case Studies (Presenter: Amir Sinaeepourfard)</p> <p>68 - Smart Energy Usage and Visualization based on Micro-Moments (Presenter: Faycal Bensaali)</p> <p>137 - "Smart City" Governance Technologies Development in the Era of the 4th Industrial Revolution (Presenter: Mikhail Kuznetsov)</p> <p>239 - Information and Thermic Control System for Water Contaminant Charge Removal of the City of Villavicencio, Colombia (Presenter: Obeth Hernán Romero Ocampo)</p> <p>273 - Improving Traffic Safety through Video Analysis in Jakarta (Presenter: Raesetja Sefala)</p> <p>107 - Infrastructural Models of Intermediary Service Providers in Digital Economy (Presenter: Anton Ivaschenko)</p>