# Day 1 – Oct, 15, 2022

**9:00 – 9:30**      <u>**Opening session**</u>

**9:30 – 10:20**      **Keynote Speech I**
Prof. Kun Yang, School of Computer Science and Electronic Engineering, University of Essex, UK
Title:

| ROOM A<br>ID：456-5586-2672<br>Password：202210 | ROOM B<br>ID：632-7591-7002<br>Password：202210 |
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| **Session1 (Federated Learning and application)**<br>**10:30 – 12:10**<br><br>**FedFR:Evaluation and Selection of Loss Functions for Federated Face Recognition**<br><br>**FedCL: An Efficient Federated Unsupervised Learning for Model Sharing in IoT**<br><br>**Edge Federated Learning for Social Profit Optimality: A Cooperative Game Approach**<br><br>**MetaEM: Meta Embedding Mapping for Federated Cross-Domain Recommendation to Cold-Start Users**<br><br>**A Reliable Service Function Chain Orchestration Method Based on Federated Reinforcement Learning** | **Session2 （Edge Computing & Collaborative working）**<br>**10:40 – 12:10**<br><br>**A Context-aware Approach to Scheduling of Multi-Data-Source Tasks in Mobile Edge Computing**<br><br>**Secure and Private Coding for Edge Computing against Cooperative Attack with Low Communication Cost and Computational Load**<br><br>**Availability-Constrained Application Deployment in Hybrid Cloud-Edge Collaborative Environment**<br><br>**EBA: An Adaptive Large Neighborhood Search-based Approach for Edge Bandwidth Allocation**<br><br>**System Completion Time Minimization with Edge Server Onboard Unmanned Vehicle** |
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| **Session3(Edge Computing & Collaborative working)**<br>**13:30 – 15:10**<br><br>**An approach to the** | **Session4(Recommendation System)**<br>**13:30 – 15:10**<br><br>**A Negative Sampling-based Service** |

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| **Synchronization of Dynamic Complex Network Combining Degree Distribution and Eigenvector Criteria**<br><br>**An Energy-Saving Strategy for 5G Base Stations in Vehicular Edge Computing**<br><br>**An efficient scheduling strategy for containers based on Kubernetes**<br><br>**NOMA-Based Task Offloading and Allocation in Vehicular Edge Computing Networks**<br><br>**A Collaborative Graph Convolutional Networks and Learning Styles Model For Courses Recommendation** | **Recommendation Method**<br><br>**A flow prediction model of bike-sharing based on cycling context**<br><br>**Knowledge Graph Enhanced Web API Recommendation via Neighbor Information Propagation for Multi-service Application Development**<br><br>**Expertise-oriented Explainable Question Routing**<br><br>**An API Recommendation Method based on Beneficial Interaction** |
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| **Session5(Blockchain applications)**<br>**15:30 – 17:10**<br><br>**FAV-BFT:An Efficient File Authenticity Verification Protocol for Blockchain-based File-Sharing System**<br><br>**Incentive Mechanism Design for Uncertain Tasks in Mobile Crowd Sensing Systems Utilizing Smart Contract in Blockchain**<br><br>**Research on the Update Method of CP-ABE Access Control Strategy based on Smart Contract**<br><br>**Effective Blockchain-based Asynchronous Federated** | **Session6(Security and Privacy Protection)**<br>**15:30 – 17:10**<br><br>**A Novel Risk Assessment Method Based on Hybrid Algorithm for SCADA**<br><br>**A Visual Tool for Interactively Privacy Analysis and Preservation on Order-Dynamic Tabular Data**<br><br>**Prevention of GAN-based Privacy Inferring Attacks towards Federated Learning**<br><br>**ACS: An Efficient Messaging System With Strong Tracking-resistance** |

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| Learning for Edge-computing<br><br>One-Time Anonymous Certificateless Signcryption Scheme Based on Blockchain | A Privacy-Preserving Lightweight Energy Data Sharing Scheme based on Blockchain for Smart Grid |
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# Day 2– Oct, 16, 2022

| ROOM A<br>ID：456-5586-2672<br>Password：202210 | ROOM B<br>ID：632-7591-7002<br>Password：202210 |
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| Session7（Security and Privacy Protection）<br>8:30 – 10:10<br><br>Anti-Clone: A Lightweight Approach for RFID Cloning Attacks Detection<br><br>Dynamic Trust-Based Resource Allocation Mechanism for Secure Edge Computing<br><br>A Stochastic Gradient Descent Algorithm Based on Adaptive Differential Privacy<br><br>Evading Encrypted Traffic Classifiers by Transferable Adversarial Traffic<br><br>A Secure Auction Mechanism for Task Allocation in Mobile Crowdsensing | Session8（Edge Computing & Collaborative working）<br>8:30 – 10:10<br><br>Analysis of the Impact of Structural Holes on the Value Creation in Service Ecosystems<br><br>AtNet: A Novel Anti-tracking Network with Multi-party Judgement Capability based on Cross-domain Small-world Topology<br><br>Learning Dialogue Policy Efficiently Through Dyna Proximal Policy Optimization<br><br>Self-Gated FM: Revisiting the Weight of Feature Interactions for CTR Prediction<br><br>Heterogeneous Graph Neural Network-based Software Developer Recommendation |
| Session9（Deep Learning and application）<br>10:30 – 12:10<br><br>A Pareto-Efficient Task-Allocation Framework based on Deep | Session10（Collaborative working）<br>10:30 – 12:10<br><br>Semantic SLAM for mobile robot with Human-In-the-Loop |

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| **Reinforcement Learning Algorithm in MEC**<br><br>**An Adaptive Ensembled Neural Network-based Approach to IoT Device Identification**<br><br>**Fine-grained Head Pose Estimation Based on 6D Rotation Representation with Multi-regression Loss**<br><br>**Purpose Driven Biological Lawsuit Modeling and Analysis Based on DIKW**<br><br>**Research on Depth-adaptive Dual-arm Collaborative Grasping Method** | **Incorporating Feature Labeling into Crowdsourcing for More Accurate Aggregation Labels**<br><br>**Cost Performance Driven Multi-Request Allocation in D2D Service Provision Systems**<br><br>**Collaborative Mobile Edge Computing through UPF Selection**<br><br>**Deep Reinforcement Learning for Multi-UAV Exploration under Energy Constraints** |
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| **ROOM A** | **ROOM B** |
| **Session11(Collaborative working) 13:30 – 15:10**<br><br>**Optimization of Large-Scale Knowledge Forward Reasoning Based on OWL 2 DL Ontology**<br><br>**ITAR: A Method for Indoor RFID Trajectory Automatic Recovery**<br><br>**A Longitudinal Measurement and Analysis of Pink, a Hybrid P2P IoT Botnet**<br><br>**VT-GAT: A Novel VPN Encrypted Traffic Classification Model Based on Graph Attention Neural Network** | **Session12(Images processing and recognition) 13:30 – 15:10**<br><br><br>**Landmark Detection Based on Human Activity Recognition for Automatic Floor Plan Construction**<br><br>**Facial Action Unit Detection by exploring the weak relationships between AU labels**<br><br>**An improved dual-subnet lane line detection model with a channel attention mechanism for complex environments**<br><br>**Facial Expression Recognition Based on Deep Spatio-temporal** |

| | Attention Network |
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