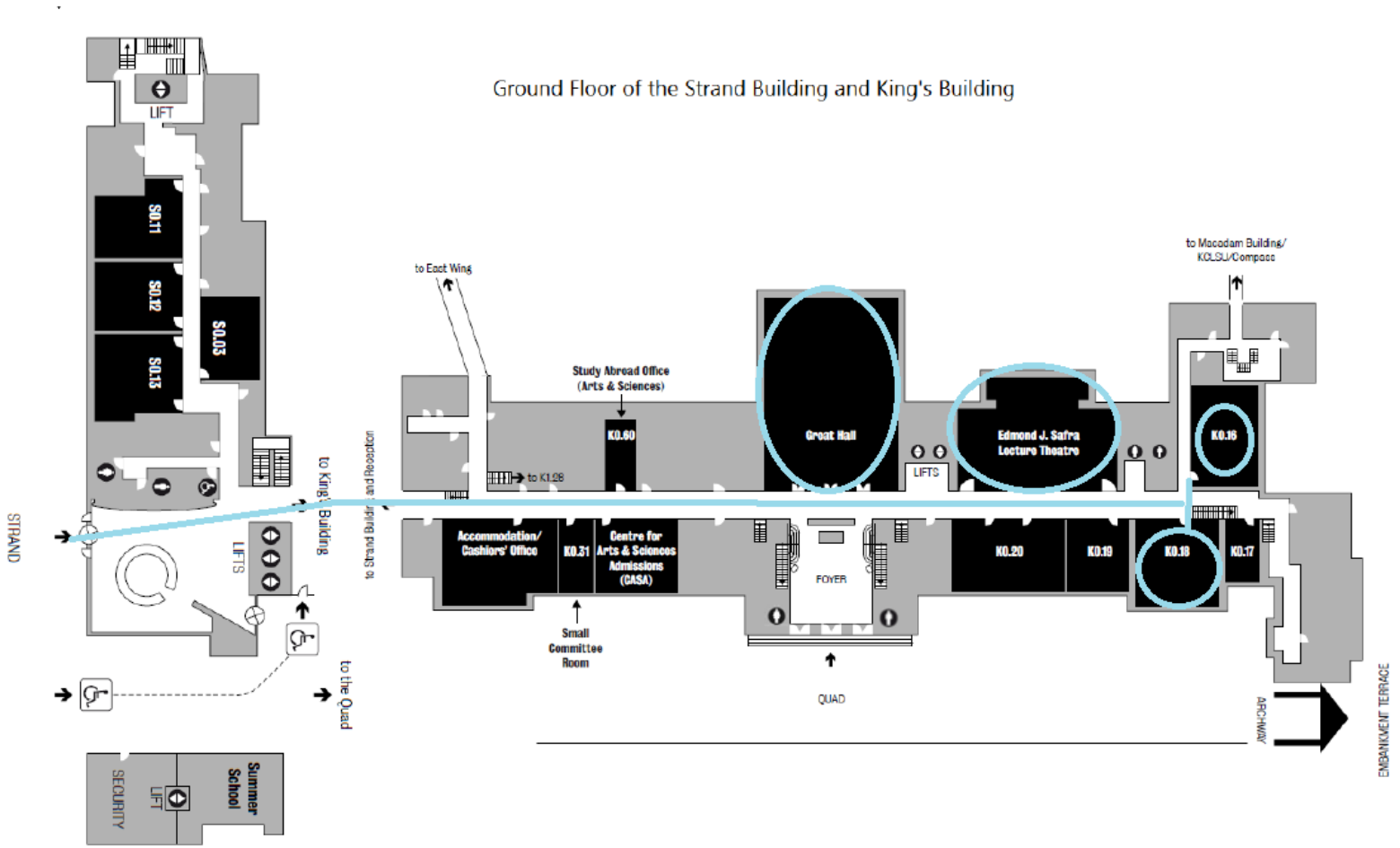
Local UK time		Jul-29				Jul-30				Jul-31			
08:00	08:30	Arrival/Registration											
08:30	09:00	Opening - Dr. Amit Singh				Arrival/Registration				Arrival/Registration			
09:00	10:00	Keynote 1 - Prof. Nikil Dutt				Keynote 2 - Prof. Julie A. McCann				Keynote 3 - Dr. Partha Maji			
10:00	10:30	Tea/Coffee Break				Tea/Coffee Break				Tea/Coffee Break			
10:30	12:00	S1	S2	S3	IP	S11	S12	S13	DnI	S19	S20	T2	SS+I
12:00	12:30	WiP A & Networking				Networking				Networking			
12:30	13:30	Lunch				Lunch				Lunch			
13:30	15:00	S4	S5	S6		S14	S15	S16	WS1	Awards & Closing			
15:00	15:30	Networking & Tea/Coffee				WiP B & Networking & Tea/Coffee							
15:30	17:00	S7	S8	S9	S10	S17	S18	T1	WS2				
17:00	18:00	PhD Forum											
19:00	22:00					**Banquet Dinner (ticket needed)**							

Symbol	**Description**
S	Session
IP	Industrial Panel
WiP	Work-in-Progress Poster
DnI	Diversity and Inclusion
WS	Workshop
SS	Special Session
I	Invited

	Room
	K0.64 Great Hall
	Edmond J. Safra Lecture Theatre
	K0.16
	K0.18
	K2.29
	Science Gallery London

Floorplan: Ground Floor of King's Building at King's College London, Strand, London WC2R 2LS



Session	Title	Style	Mode
Keynote 1	**Omni-Layer Intelligence Requires Cross-Layer Self-Awareness**	Keynote	In-Person
Keynote 2	**Finding Rubies in the Dust**	Keynote	In-Person
Keynote 3	**Speeding Up Generative AI**	Keynote	In-Person
S1 - AI and Machine Intelligence			
	Unsupervised Neural Architecture for Sensorimotor Mapping in Perceptually Aliased Environments	Long	In-Person
	Addressing Non-Stationarity with Relaxed f-Discounted-Sliding-Window Thompson Sampling	Long	Virtual
	Deep Learning models to estimate High Resolution NDVI for multiple augmentation factors	Long	Virtual
	Industrial Pump Condition Monitoring with Audio Samples: a Low-Rank Linear Autoencoder Feature Extraction Approach	Short	In-Person
S2 - IoT: From Edge to Cloud			
	An IoT-based Biodiversity Monitoring System	Long	In-Person
	Correlation And Regression Evaluation of Small PM Sensors in Metro Manila	Long	In-Person
	Stateful-WoT: Capturing the Behavior of Highly Dynamic Cyber-Physical Systems	Long	In-Person
	CARE SENSOR STATION: A Compact Cost-Effective Air Quality Monitoring Station using Small Sensors and Wireless Sensor Networks	Poster	In-Person
S3 - Distributed Ledger Technologies and Blockchain			
	A statistical method for detecting Bitcoin mining resource changes considering difficulty	Long	Virtual
	Governance and Maintenance for a DAO with Physical Assets – An Agent-based Model	Long	In-Person
	Token Composition: A Graph Based on EVM Logs	Long	In-Person
IP - P2P Blockchain: Blockchain scaling with IPv6-based New Internet			

	With panelists: - Latif Ladid, Founder & President, IPv6 FORUM - Giovanni Franzese, Head of IP Commercialization , nChain - Jake Jones, Head of Infrastructure & Business Program Manager, BSV Association - Alessio Pagani, Research Director, nChain - Richard Baker, Founder and Chief Executive Officer, Tokenovate	Panel	
WiP A - Poster Interaction Session A		Poster	In-person
S4 - AI and Machine Intelligence			
	A Hybrid Swarm Intelligence Algorithm for Compute Cluster Selection Using Bee Colony Optimization with Random Sampling	Long	In-Person
	Towards Music Instrument Classification Using Convolutional Neural Networks	Long	Virtual
	FishNet: Deep Neural Networks for Low-Cost Fish Stock Estimation	Long	Virtual
S5 - Smart Agriculture			
	Smart Farming data and IoT in support of agricultural policy monitoring	Long	In-Person
	AI-Driven Precision Farming: A Holistic Approach to Enhance Food and Nutrition Security in Africa	Long	Virtual
	Soil Parameters Estimation Using Airborne Hyperspectral Images	Long	Virtual
S6 - Digital Health and Wellbeing			
	Accuracy and reliability of a novel IMU-based functional calibration tool for clinical 3D wrist joint angle monitoring	Long	In-Person
	Balancing Accuracy and Energy Efficiency on Ultra-Low-Power Platforms for ECG Analysis	Long	In-Person
	An Enhanced Subject-Independent Approach for Hand-Based Micro Activities Recognition	Short	In-Person
	Multimodal Fusion of EEG and EMG Signals Using Self-Attention Multi-Temporal Convolutional Neural Networks for Enhanced Hand Gesture Recognition in Rehabilitation	Short	In-Person
S7 - AI and its Applications			
	Enabling Privacy-Preserving Edge AI: Federated Learning Enhanced with Forward-Forward Algorithm	Long	In-Person
	DETR-SAM: Automated Few-Shot Segmentation with Detection Transformer and Keypoint Matching	Long	Virtual

	Transparent Plastic Bottle Detection and Depth Decision Method using YOLOv8 in Recyclable Waste Segregation Systems	Short	Virtual
	Efficient Deep Learning Approach for Breast Cancer Detection	Short	Virtual
S8 - IoT and Networking			
	Efficient Hardware Acceleration of Mean Squared Error Calculation Through In-Memory Computing	Long	In-Person
	Evaluating Routing Protocols for Intermittent Energy Harvesting IoT Networks	Long	In-Person
	A Wireless Sensor Network-based Testbed for Characterizing the Dispersion of Total Volatile Organic Compounds in an Enclosed Space	Short	In-Person
	Intelligent Task Offloading in IoT Devices Using Deep Reinforcement Learning Approaches	Short	In-Person
S9 - Intelligent Robots & Systems			
	Path Tracking Control for Differential Drive Robots Using Lane Recognition	Long	In-Person
	Towards Nano-drones Agile Flight Using Deep Reinforcement Learning	Long	In-Person
	Noise Analysis and Modeling of the PMD Flexx2 Depth Camera for Robotic Applications	Long	Virtual
	*Navigating the 6G-Robotics Intersection: The Role of Standards-Setting	Short	In-person
S10 - AI and Machine Intelligence			
	Exploring 8-bit Arithmetic for Training Spiking Neural Networks	Long	In-Person
	Data Extraction, Visualization, and Prediction through Natural Language Processing	Short	Virtual
	Large Language Models as a Service: optimisation strategies via Knowledge Space reduction	Short	Virtual
	Enhancing Software Engineering Education through an Authentic Web-Based Simulation of Companies Workflows	Short	Virtual
	Contextual Deep Learning Approaches for Time Series Reconstruction	Short	Virtual
S11 - IoT for Smart Societies			
	RoadSafe: A Machine Learning based-Road Accident Prevention System	Long	In-Person

	Implementation and Testing of V2X-Applications for Near Future Urban Traffic in Berlin	Short	In-Person
	Internet of Things for Digital Transformation and Sustainable Growth of SME's	Short	In-Person
S12 - Security and Distributed Ledgers			
	Cost-Effective Integration of Blockchain Technologies into P2P Energy Trading Systems	Short	In-Person
	Robust Softmax Aggregation on Blockchain based Federated Learning with Convergence Guarantee	Short	Virtual
	RoboStake: Pioneering Cooperative Navigation with a Novel Blockchain-Powered Proof-of-Stake in Robotic Teams	Short	Virtual
	Comparing Deep Neural Networks and Machine Learning for Detecting Malicious Domain Name Registrations	Short	Virtual
	Enabling Power Side-Channel Attack Simulation on Mixed-Signal Neural Network Accelerators	Short	Virtual
S13 - AI and Machine Intelligence			
	Exploiting Multimodal Features and Deep Learning for Predicting Crowdfunding Successes	Long	In-Person
	Investigating Vulnerabilities and Potential Security Threats in Current Synthetic Data Generation and Usage in the Automotive Domain	Long	Virtual
DnI - Diversity and Inclusion Panels			
	Panel 1: Navigating the Tech. Industry as a Woman: Insights, Experience, and Lessons Learned from Leading Women in Tech	Panel	In-Person
	Panel 2: Designing for Diversity and Inclusion.	Panel	In-Person
S14 - Energy and Smart Grids			
	Integration and Optimization of EV Charging Processes in a Decentralized Local Energy Trading Market	Long	In-Person
	Design and Optimization of Hybrid Renewable Energy Microgrid in the UK	Long	Virtual
	Strategies for Resilience and Battery Life Extension in the Face of Communication Losses for Isolated Microgrids	Short	In-Person
S15 - Circuits, Systems and Design Automation			
	Simopt - Simulation pass for Speculative Optimisation of FPGA-CAD flow	Long	In-Person
	Computationally Sampling Surface and Volume Current Densities of Liquid Crystal Non-planar Phase Shifters for Low-loss 5G IoT and 6G AIoT	Long	In-Person

	Exploring RISC-V Based DNN Accelerators	Short	Virtual
	FPGA Acceleration of Dynamic Neural Networks: Challenges and Advancements	Short	In-Person
S16 - Smart Cities			
	Devising a Responsible Framework for Air Quality Sensor Placement	Long	In-Person
	Reliable Fill-Level Monitoring of Recycling Glass Containers	Long	Virtual
	Citizen Movement Control System (CMCS) for Handling the Evacuation Process of an Earthquake	Long	In-Person
WS1 - Workshop on Unleashing the Intelligent Edge			
	NIRVANA: Non-Invasive Real-time VulnerAbility ANAlysis for RISC-V Processor	Long	In-Person
	An Efficient 3D Data Annotation and Object Detection Pipeline for Production Line	Long	Virtual
	Acceleration of EEG signal processing on FPGA: A Step Towards Embedded BCI	Long	In-Person
	Leveraging Multimodal Social Media Features and Deep Learning to Enhance Credit Risk Prediction	Poster	In-Person
WiP B - Poster Interaction Session B			
S17 - IoT: From Edge to Cloud			
	CARE HIVE: A Scalable IoT Platform for Collaborative Air Quality Monitoring and Research	Long	In-Person
	Triple-S: Security Scoring System for IoT Devices	Long	Virtual
	Review of Kalman Filters in Multiple Object Tracking Algorithms	Short	In-Person
S18 - AI and IoT			
	Navigating the Freeze: A Machine Learning Approach to Detect Freezing of Gait in Parkinson's Patients	Short	In-Person
	Preliminary Unknown Appliance Detection using Convolutional Variational Auto-Encoders for AAL	Short	In-Person
	Edge Device Selection For Industrial IoT Task Offloading In Mobile Edge Computing	Short	In-Person
	*Cloud-Edge Patterns for Privacy Preserving AI and Analytics Computations	Long	In-Person
T1 - Tutorial 1			

	Device Aging and Security: Friends or Foes?	Tutorial	Virtual
WS2 - Workshop on Unleashing the Intelligent Edge			
	REALITY: RL-PowEred AnomaLy Detection with Imprecise Computing in MulTi-core sYstems	Long	In-Person
	Pupil Diameter Classification using Machine Learning During Human-Computer Interaction	Long	In-Person
S19 - Smart Agriculture			
	Open-source Tools and Supports to Advance Data Interoperability in the Agriculture Domain	Long	In-Person
	New datasets on artificial intelligence for weed identification	Long	Virtual
	Architecture of the framework supporting data monetisation - building blocks to foster data sharing in agriculture domain	Long	In-Person
	Apple Trees Leaves Pathologies Detection using Deep Learning Convolutional Neural Network	Short	Virtual
S20 - Embedded AI			
	A User-Friendly Ecosystem for AI FPGA-based Accelerators	Long	In-Person
	Novel Grad-CAM based Mask-Guided Attention for Plant Disease Classification on Edge	Long	In-person
	MuDSE: GA-ILP-based Framework for Automated Deployment of Multiple DNNs on Heterogeneous Mixed-Criticality Systems	Long	In-Person
T2 - Tutorial 2			
	From Marine Internet to Best-effort Networking Systems: An Evolution toward Smart Pervasive Networks	Tutorial	In-Person
SS+I - Microelectronics and Hardware Security			
	Optimization of a Nanowire-Based Biosensor and Its Performance Analysis	Long	In-Person
	Analysis of Source-and-Drain Doping for the Underlapped FinFET	Short	In-Person
	Handling Packet Blocking Attack in NoC using Traffic Snooping	Long	Virtual

Please note arrangements are in place for Virtual attendees to hear talks of In-person attendees and vice-versa

*** Paper-free Oral Presentation**

Best Paper Candidates