QMUL SUPERVISOR INTRODUCTION 2021-2022

QMUL Supervisors

Dr Atm Alam

https://atmalam.wordpress.com/

Project ID:	QASA
Email:	a.alam@qmul.ac.uk
Application area(s):	Networks and Wireless IoT Systems

JP project titles from previous year:

- Device-to-multicast (D2M) communications for ultra-dense 5G networks
- Performance comparisons of Intelligent Reflecting Surface (IRS) and wireless relays
- Base station sleeping operations for ultra-dense 5G networks
- Edge AI for dynamic spectrum access in 5G and beyond 5G (B5G)
- Energy-efficient cloud radio access networks for 5G – a reinforcement learning approach
- Integration of heterogeneous access technologies for home area networks
- Machine learning based energy scheduling for virtual power plants
- Peer-to-peer ride-sharing system optimization using graph theory
- Machine learning-enabled semi-autonomous framework for assessing digital examination

Dr Yasir Alfadhl

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Project ID:	QYA
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Application area(s):	Antennas and Optical Networks and Wireless

JP project titles from previous year:

- Alternative Smart-Phone Input Using Accelerometers and Motion Sensors
- Research into indoor localisation methods
- Improved RFID Fingerprinting system for location-aware applications
- Research into the variations of dielectric properties due to the change of mass density
- Intelligent House sensing: water leak and smoke detection
- Graphical Surveying system for lecture rooms
- Development of smart gesture prediction software for Multi-Touch monitor screens
- Design and Implementation of a remote alarm and home monitoring system
- Development of Cymatics vibrational plates

Dr Marie-Luce Bourguet

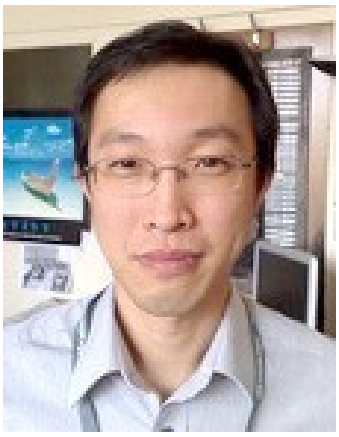
http://www.eecs.qmul.ac.uk/~mlb/

Project ID:	QMLB
Email:	marie-luce.bourguet@qmul.ac.uk
Application area(s):	Multimedia and Vision Software development

JP project titles from previous year:

- Video motion capture for social robot control
- Virtual Reality (VR) application on smart phones
- A guide robot
- A telepresence robot that creates a genuine sense of presence
- Eye tracking experiments for designing better online tests
- Object detection and 3D eye tracking for human-robot collaboration
- An intelligent sensing platform for interview training
- Skilled public speaker virtual character
- Augmented Reality (AR) with Vuforia and Unity to teach Engineering
- Virtual Reality (VR) Laboratory Experiences

Dr Michael Chai



http://www.eecs.qmul.ac.uk/~michaelc/

Project ID:	QMC
Email:	michael.chai@qmul.ac.uk
Application area(s):	Networks and Wireless IoT Systems

JP project titles from previous year:

- Smart Indoor Tracking Application
- Human Activity Recognition on smart phone
- Big data students record system
- Automated Attendance System
- Acoustic based human sensing system
- Supermarket stock control and inventory system
- Voice based remote control multiple vehicles
- Electricity consumption and Carbon Emissions Analyser
- Smart Energy Control Systems for Smart Grid
- AI Chatbot for learning

Dr Xianhui Che

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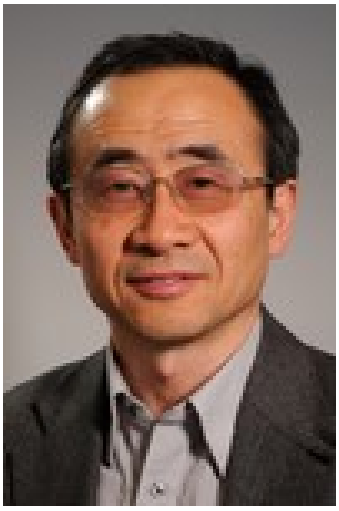
Project ID:	QCC
Email:	x.che@qmul.ac.uk
Application area(s):	Multimedia and Vision IoT Systems

JP project titles from previous year:

- Casual Mobile Game Development
- Development of a Location-Aware Social Mobile App
- Home Surveillance on Mobile Phones/Tablets
- Smart Communication between Robotic Cars
- Implementation of Autonomous Robotic Cars
- Informatics in Social Networks
- Collaborative and Mobile Learning
- Web-Based Interactive Game for Children
- 2D/3D Game Modelling with OpenGL
- Animation Production with OpenGL

Prof Xiaodong Chen



http://eecs.qmul.ac.uk/profiles/chenxiaodong.html

Project ID:	QXC
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Application area(s):	Antennas and Optical Networks and Wireless

JP project titles from previous year:

- An Autonomous Vehicle Based on Policy Gradient Reinforcement Learning
- Human Cognitive Network Modelling on Human Brain Project Neuromorphic Computing platform
- Brain controlled home automation
- Deep-Learning-based Inverse Modelling for 5G millimetre wave device
- A maze solving robot using deep learning network
- Banana Ripening Stage detection using Deep learning
- Sign Language Recognition using Deep Learning
- Skin Lesion Image Classification using Deep Learning
- Unsupervised Learning of Digit Recognition using Spike Neural Network

Dr Richard Clegg

http://www.richardclegg.org/

Project ID:	QRGC
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Application area(s):	Networks and Wireless Data Science and Artificial Intelligence

JP project titles from previous year:

- Big data temporal motif detection in cryptocurrency
- Simulating the performance of video streaming traffic
- Modelling disease spreading in networks
- Big data community detection in online social networks
- A model of dynamic network growth using communities
- Tracking rumours in online social networks
- Artificial Intelligence for link prediction in networks
- The structure of Neural networks and Artificial Intelligence studied as complex networks
- Classifying the causes of delay in the Internet
- AI to estimate throughput from network characteristics

Dr Maged Elkashlan

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Project ID:	QME
Email:	maged.elkashlan@qmul.ac.uk
Application area(s):	Antennas and Optical Networks and Wireless

JP project titles from previous year:

- Energy Constrained Two-Way Relays
- Non-Orthogonal Multiple Access in Cognitive Radio
- Non-Orthogonal Multiple Access with Wireless Power Transfer
- Cognitive Radio with Wireless Power Transfer

Dr Ildar Farkhatdinov

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Project ID:	QIF
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Application area(s):	Networks and Wireless IoT Systems

JP project titles from previous year:

- Using IoT Lora communication device for telerobotics
- Using Matlab Simulink to model electronic controllers and motors
- Data analysis of academic publications with Scopus API
- Integrating computer vision for head tracking in virtual reality applications
- Using computer vision for hand tracking in virtual reality applications
- Interactive video displays for virtual reality applications
- Using acoustic signals to analyse arm movements
- Mobile app to motivate wheelchair users to exercise

Dr Paula Fonseca

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Project ID:	QPF
Email:	paula.fonseca@qmul.ac.uk
Application area(s):	Software development Data Science and Artificial Intelligence

JP project titles from previous year:

- A flowchart generator to visualise simple programs
- Childcare placement smart phone app in a COVID-19 world
- Improving restaurant service efficiency with NFC technology
- Improving customer experience in a department store with a smart phone app
- Helping hard of hearing people in open air theatres
- A ”finding shopping center facilities” smart phone app
- A cross-browser bookmark manager
- A tool to generate and solve simple maze games
- A museum visitors’ smart phone app with Bluetooth beacons
- COVID-19 aware resources booking system for a University

Dr Gokop Goteng

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Project ID:	QGG
Email:	g.l.goteng@qmul.ac.uk
Application area(s):	IoT Systems Software development

JP project titles from previous year:

- Implementation of Online Virtual Proctoring Exam System for COVID-19 Pandemic Situations
- Developing a Business Analytics for the Medical Industry in Response to COVID-19 through Collaborative Healthcare System
- Implementing an Autonomous Teacher in a Smart Classroom using AWS Alexa
- Smart Online Remote Virtual Labs for Cloud Computing
- Developing Digital Wallet for Bitcoin Cryptocurrency Transactions using Cloud Technologies
- Developing a Smart Suicide Detection Social Media App for Hospital Use
- Securing Virtual Online Teaching from Malicious Intruders and Data Privacy Compromise
- QM-F1 Virtual Racing using AWS DeepRacer
- Developing a Business Analytics App for COVID-19 Pandemic Forecast for the Entertainment Industry

Dr Mona Jaber

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Project ID:	QMJ
Email:	m.jaber@qmul.ac.uk
Application area(s):	IoT Systems Networks and Wireless

JP project titles from previous year:

- Reinforcement Learning for Spectrum sharing in HetNets
- Predicting pedestrians' paths
- Matching game for Intelligent User association in HetNets
- Coalition game for load-aware CoMP
- Artificial Immune System for Malware detection in IoT
- Detecting failures in Industry 4.0 with missing values
- Detecting failures in Industry 4.0 with imbalanced datasets
- Remote detection of stress and affect in people
- Event detection from fibre-based Distributed Acoustic Sensing (DAS)
- Subject identification from walking activity

Dr Kleomenis Katevas

https://minoskt.github.io

Project ID:	QKK
Email:	kleomenis.katevas@qmul.ac.uk
Application area(s):	Data Science and Artificial Intelligence Software development

JP project titles from previous year:

- PPFL: Privacy-preserving Federated Learning with Trusted Execution Environments
- DarkneTZ: Towards Model Privacy on the Edge using Trusted Execution Environments
- Visual attention tracking using mobile sensor data
- Indoor Localisation
- Predicting Group Composition from Mobile Sensor Data
- Can alcohol consumption and its acute effects be detected from smartphone sensor data?
- Identifying correlations between state moods and sensing mobile data
- Capture the Flag (Mobile Sensing game)

Dr James Kelly

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Project ID:	QJK
Email:	j.kelly@qmul.ac.uk
Application area(s):	Antennas and Optical Networks and Wireless

JP project titles from previous year:

- Mm-wave phased array antenna system (PIFA) for 6G mobile networks
- Mm-wave phased array antenna feed network for 6G mobile networks
- “Self-adaptive” antenna, for future wireless devices, that can maintain its beam direction irrespective of the device orientation
- “Self-adaptive” antenna, for wearable applications, that can compensate for stretch induced changes in length
- “Self-adaptive” antenna, for future wireless devices, that can automatically reconfigure its pattern shape based on its orientation
- Antenna, for future wireless devices, that alter the shape of its radiated beam by varying the geometry of the radiator
- Mobile handset antenna, for 6G mobile networks, that can reconfigure its operating frequency bandwidth
- Multiband mobile handset antenna, for 6G mobile networks, that can reconfigure the number of supported bands

Dr Ethan Lau

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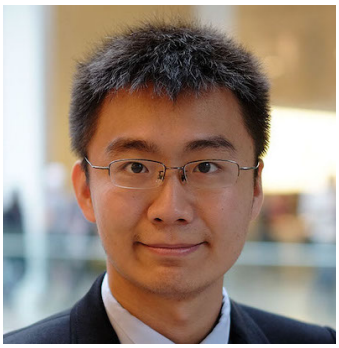
Project ID:	QEL
Email:	e.lau@qmul.ac.uk
Application area(s):	IoT Systems Data Science and Artificial Intelligence

JP project titles from previous year:

- Sustainable low-carbon system initiative for urban tourism
- Assessment of innovative low carbon disruptive technologies in smart grids
- Semantic information model for smart grid applications
- Human activity modelling and profiling for smart electrical grids
- Smart and sustainable urban mobility
- Building energy automation and control modelling
- Interactive and adaptive smart education learning model
- The electrical grid impact of electrical vehicles
- Autonomous cost-efficient HVAC control system
- Optimal autonomous peer-to-peer (P2P) for local energy trading

Dr Yuanwei Liu



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Project ID:	QYL
Email:	yuanwei.liu@qmul.ac.uk
Application area(s):	Networks and Wireless Antennas and Optical

JP project titles from previous year:

- AI Solution for NOMA aided Intelligent Robotic Edges (IREs) networks
- Federated Learning for non-orthogonal multiple access aided mobile edge computing (NOMA-MEC) Networks
- Machine Learning Empowered NOMA-UAV Networks for Cellular Offloading
- Intelligent Resource Management in Multi-cell Non-orthogonal Multiple Access (NOMA) Networks
- Grant-free Non-orthogonal Multiple Access (GF-NOMA) Networks
- Reinforcement learning aided Radio Map-based Cellular-Connected Robotic Path Planning
- Human action recognition based on wireless signals using deep learning
- Deep Spatial–Temporal Model Based Action Recognition using wireless data

Prof Jonathan Loo

https://www.researchgate.net/profile/Jonathan_Loo

Project ID:	QJL
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Application area(s):	IoT Systems Networks and Wireless

JP project titles from previous year:

- Joint Optimisation of Downlink Beamforming, Power Control and Interference Coordination for 5G Cellular Networks using DQN
- 3D Lidar Scanner based on Raspberry Pi
- Digital Modulation Recognition based on Deep Learning Model
- Turbo Decoder based on Deep Learning Model
- Neural Network based Channel Coding for Point-to-Point Communication Channel
- Joint channel estimation and detection in OFDM system based on Deep Learning Model
- Smart Traffic Light Control System using Deep Reinforcement Learning and Computer Vision
- A Secure Embedded Linux based IoT system using TPM 2.0
- Image Classifier for Pneumonia Chest X-Ray Images using AutoML
- Building Linux Security Detection and Defence using MITRE ATTACK Framework

Dr Ling Ma

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Project ID:	QLM
Email:	ling.ma@qmul.ac.uk
Application area(s):	Software development Data Science and Artificial Intelligence

JP project titles from previous year:

- Healthcare service analytics and rating system
- A context-aware adaptive and personalised mobile app
- Cybersecurity risk assessment as a service
- Question based search for cases in legal research
- Data analysis of an arbitration service
- Contract analysis in online service
- Automated content tagging for online content providers
- Youth protection software for online content providers
- An e-commerce website migration software tool for small businesses
- Automated FAQs generator

Dr Changjae Oh

http://eecs.qmul.ac.uk/~coh/

Project ID:	QCO
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Application area(s):	Multimedia and Vision Data Science and Artificial Intelligence

JP project titles from previous year:

- Online learning for semi-supervised video object segmentation
- Deep learning-based low-light image enhancement
- Image enhancement with deep learning-based photorealistic style transfer
- Deep learning-based scene text detection
- Adversarial face photo enhancement
- Learning 6D object pose estimation using convolutional neural networks
- Deep reinforcement learning for robot manipulation
- Deep reinforcement learning for active visual exploration
- Underwater image enhancement using generative adversarial network
- Wavelet transform-based low-resolution face image enhancement for face recognition

Dr Nickos Paltalidis

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Project ID:	QNP
Email:	n.paltalidis@qmul.ac.uk
Application area(s):	Software development

JP project titles from previous year:

- A transformation of a traditional small-medium size company to Business to Consumers (B2C) e-business, using the Business Model Architecture Framework (BMAF)
- A development of a Supply Chain Management web-based application, using the Business Model Architecture Framework (BMAF)
- A dashboard software for predicting the impact of entry qualifications on exit results
- An educational game for business oriented modules
- A mobile application for direct communication and collaboration among lecturers and students
- A mobile application for office building social distancing capacity management during COVID-19
- An online system for efficient course registration offered by state educational institutes in Cyprus
- A transformation of a traditional Business to Business company to e-business, using the Business Model Architecture Framework (BMAF)

Dr Cunhua Pan

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Project ID:	QCP
Email:	c.pan@qmul.ac.uk
Application area(s):	Networks and Wireless IoT Systems

JP project titles from previous year:

- Latency Minimization for URLLC-enabled DF-Relay UAV Networks under Free-Space Channel Model
- Fairness-based Trajectory Design for UAV Communications
- Deployment Optimization for URLLC-enabled DF-Relay UAV Networks under 3-D Channel Model
- Joint Resource and Deployment Optimization for URLLC-enabled UAV AF-Relay Systems under Free-space channel Model
- Data Rate Analysis for Ultra-reliable and Low-latency Communications in UAV Communication Systems
- Packet Error Probability Analysis for Ultra-reliable and Low-latency Communications in UAV Systems
- Resource Allocation for URLLC Networks under OMA scheme
- Energy Minimization for URLLC Networks under Relay-assisted and NOMA Transmission Schemes

Dr Stefan Poslad

http://iot.eecs.qmul.ac.uk/people/academic/stefan-poslad/

Project ID:	QSP
Email:	stefan.poslad@qmul.ac.uk
Application area(s):	Software development Data Science and Artificial Intelligence

JP project titles from previous year:

- A Liveable City Suggestion System based on Personal Health Considerations
- Monitoring Hand or Racket Movement during Sports
- Augmented Reality Support for Image and Sensor based Localization and Navigation
- A Digital Service to Raise Awareness Concerning the Use of Microplastics
- A Geographical Information System to Promote Greater Local, Community based, Recycling
- Use of Pedestrian Dead Reckoning (PDR) for Indoor Simultaneous Localization and Mapping (SLAM)
- An Investigation of Edge Computing / Data Analytics for the Internet of Things
- Comparison of the Prediction of PM2.5 in Different Spatial and Temporal Resolutions Based on a Convolutional Long Short-term Memory Model
- The Ups and Downs of Air Quality Monitoring

Dr Zhijin Qin

http://www.eecs.qmul.ac.uk/~zqin/

Project ID:	QZQ
Email:	z.qin@qmul.ac.uk
Application area(s):	Networks and Wireless Data Science and Artificial Intelligence

JP project titles from previous year:

- Interpretable neural network for NOMA multi-user detection and signal recovery
- Reconfigurable intelligent surface assisted wireless communications
- Neural Networks for MIMO CSI Feedback
- Non-coherent massive MIMO system design
- Joint semantic-channel coding design in intelligent communications
- Data rate maximization for non-orthogonal multiple access system
- Compressive sensing for user activity detection
- Deep learning based speech signal transmission
- Deep learning for Channel estimation in OFDM communication systems
- Resource allocation and power optimization in D2D communications

Dr Luca Rossi

https://blextar.github.io/luca-rossi/

Project ID:	QLR
Email:	luca.rossi@qmul.ac.uk
Application area(s):	Data Science and Artificial Intelligence Networks and Wireless

JP project titles from previous year:

- Escape to the country: a mapping tool for real estate investors
- Walls are meant for climbing: analysing the ”27 Crags” platform
- Every road leads to Rome: collection and analysis of street network data
- Mind your language: a network analysis of applied linguists
- Networks of resistance: analysing protest movements in 2019-2020 through the lens of Twitter
- ”Wolf Warrior” diplomacy: a linguistic analysis of PRC diplomats speeches
- Data augmentation for graph neural networks
- Over the moon: collection and analysis of MoonBoard users data
- V for ”V grade”: learning to automatically rate MoonBoard problems
- Find me a crag: a recommendation system for climbing crags

Dr Hasan Sagor

http://eecs.qmul.ac.uk/profiles/sagormdhasanuzzaman.html

Project ID:	QHS
Email:	m.h.sagor@qmul.ac.uk
Application area(s):	Antennas and Optical Networks and Wireless

JP project titles from previous year:

- Design and Analysis of Antenna Arrays for Wireless Communication using Defected Ground Structures
- Inkjet-printed Conformal Antenna on Low-cost Photo Paper Substrate for Wireless Applications
- Design of Reconfigurable Antenna using Germanium Telluride for mmWave Application
- Transparent Directional Antenna Design for 77 GHz Automotive Radar Applications
- Pattern Reconfigurable Antenna using Microwave Switching Components for 5G Applications
- Design of a Multiband Antenna for Wrist-worn Wireless Communication Devices

Dr Karen Shoop

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Project ID:	QKVS
Email:	karen.shoop@qmul.ac.uk
Application area(s):	Data Science and Artificial Intelligence Software development

JP project titles from previous year:

- Multimodal alert system
- Visualising USA MSc Courses
- Supporting Yourself: rethinking encouragement apps
- Turning everyday activity into basic fitness
- Using Semantic Data to Explore the Chinese National Museum
- Evaluating the social-media timeline

Dr Yan Sun (Cindy)

http://www.eecs.qmul.ac.uk/profiles/sunyancindy.html

Project ID:	QYS
Email:	yan.sun@qmul.ac.uk
Application area(s):	Networks and Wireless Data Science and Artificial Intelligence

JP project titles from previous year:

- Design and development of a digital twins for wastewater treatment plants
- Dimension Reduction Methods Applied to Sleep Stage Analysis
- Graphical Interface for digital control of 5G and beyond chips
- Development of electronics for a portable insulin delivery system for diabetic patients
- Analyzing Hyperledger Fabric logs using Elasticsearch
- Permittivity reconstruction of samples in rectangular waveguide
- Dielectric Measurement of Tissues
- Proof of concept appliction of Augmented Reality Unity AR Foundation Software
- Design, implementation and testing of applications based on touch and gesture technology to stimulate creativity and learning in people with disabilities
- Synthetic data methods applied to sleep stage analysis

Dr Matthew Tang

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Project ID:	QMT
Email:	matthew.tang@qmul.ac.uk
Application area(s):	Software development IoT Systems

JP project titles from previous year:

- A study on the minimum requirement of integer precisions for scientific calculations
- Fast LEGO brick recognition and counting using YOLO
- A comparison study on different floating point formats for computer graphics applications
- Futuristic Cafe - Software controls for robots in a cafe environment
- Software controls for robots in elderly care homes
- Digital canvas for collaborative art
- Online menu builder for restaurants
- Scheduling software for smart garbage collection in modern cities
- Digital queuing system for retail shops on mobile phones
- Automatic library label recognition and sorting assistant on mobile phone

Mr Andy Watson

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Project ID:	QARW
Email:	andy.watson@qmul.ac.uk
Application area(s):	Multimedia and Vision Software development

JP project titles from previous year:

- Optimal filtering of arbitrary non-stationary signals
- Automatic Cursoring for Retinal Signals
- Simulation of aerodynamically unstable aircraft
- Investigate and simulate Drive-by-Wire in automobiles
- Separation processes in oil/gas extraction
- Enhancement and evaluation of online SSLC system
- Real-time Text Independent Speaker Recognition System
- Music Genre Identification
- Next stroke predictor for writing Chinese characters
- Sensor Fusion in Autonomous Vehicles

Dr Vindya Wijeratne

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Project ID:	QVW
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Application area(s):	Networks and Wireless Software development

JP project titles from previous year:

- Covid Risk Assessment App
- Student Feedback Analysis Tool
- Online Party App
- Team Carpool App
- Online Exam System
- Smart Queueing System
- Smart Entry System Prototype
- Animated Mathematics App
- JP Staff Visa Processing System
- JP Teaching Assistants System

Dr Alan Wong

https://www.southampton.ac.uk/engineering/about/staff/ahkw105.page

Project ID:	QAW
Email:	alan.wong@qmul.ac.uk
Application area(s):	Software development IoT Systems

JP project titles from previous year:

- An app that gamifies school work, and encourages school children to learn
- Statistical and machine learning models for estimating/predicting cycling usage
- Simple treasure hunt app for improving the experience of people visiting city centres and to improve footfall
- Software tool for teachers and parents to determine when a pupil or student is studying on their laptop
- Tool for determining how many people are in a public space, for capacity management and social-distancing purposes
- Device for determining how often a car is used, and therefore its economic value to the owner
- Development of an electronic device for capturing and monitoring the engine performance of motorised vehicles
- Have the lockdowns due to Covid-19 lead to a reduction in car traffic levels and improvements to local ambient air quality?

Dr John Woodward

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Project ID:	QJW
Email:	j.woodward@qmul.ac.uk
Application area(s):	Software development Data Science and Artificial Intelligence

JP project titles from previous year:

- FIVE IN A LINE
- Using permutations to solve the knapsack problem
- Configurable alarm clock
- 5 fruit and veg a day
- 5 a day mental well-being
- Advanced google search features
- Using a mobile phone's accelerometer to analyse usage
- Array list and array data structure
- App for learning English phonemes and syllables
- Using hasse diagrams to visualise solutions to the knapsack problem

Dr Na Yao

http://www.eecs.qmul.ac.uk/profiles/yaona.html

Project ID:	QNY
Email:	na.yao@qmul.ac.uk
Application area(s):	Software development Data Science and Artificial Intelligence

JP project titles from previous year:

- Android app usage monitor
- Android Bubble breaker game
- Online teamworking tool for JP students
- Lecture Interaction App
- Web app for exam results visualisation and analysis
- Android Pac-man game
- Android Canteen Ordering App
- Android battleship game
- Android word search game
- Fun Android math game

Dr Qianni Zhang

http://www.eecs.qmul.ac.uk/~qianniz/

Project ID:	QQZ
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Application area(s):	Multimedia and Vision Software development

JP project titles from previous year:

- Smartphone application for LEGO Minifigure recognition based on deep learning
- Smartphone application for food image classification based on deep learning
- Smartphone application for gemstone recognition in images based on deep learning
- One shot Pokemon recognition
- Skin lesion image classification and melanoma detection based on deep learning
- Liver cancer segmentation in histopathology images based on deep learning
- COVID-19 classification in CT images based on deep learning
- Quantification of uncertainties in biomedical image segmentation based on deep learning
- Histopathologic cancer detection in WSI patches based on deep learning