

Oal Session	Code	Title
S1	P06217	Quantum Sensing Technologies and Smart Cities: Opportunities and Challenges Topic: Integrating Critical Infrastructures in Smart Cities
S1	P06045	Optimizing Smart City Street Lighting: A Hybrid IoT-SAC Approach Topic: Integrating Critical Infrastructures in Smart Cities
S1	P06115	Strategic Planning as Management Tool for the Development of Smarter Cities: The Case of Brazilian Cities Topic: Integrating Critical Infrastructures in Smart Cities
S1	P06152	Automatic Tweet Mention Recommendation in X for Reporting Civic Issues - Case Study based on Mumbai City, India Topic: Integrating Critical Infrastructures in Smart Cities
S1	P05730	Study of Cyber Security Initiatives In Smart City Topic: Integrating Critical Infrastructures in Smart Cities
S2	P05889	Enhancing Student's Interest in Smart Farm Education Using Simulink and MKR 1010 Topic: Smart Education and Multidisciplinary Analysis
S2	P05888	Using MATLAB App for Electromagnetic Field Educational Tool in Smart University Topic: Smart Education and Multidisciplinary Analysis
S2	P05766	Effectiveness of Programming Classes for Elementary School Students Using Drones Topic: Smart Education and Multidisciplinary Analysis
S2	P05757	Evaluation of Artificial Intelligence, as a Smart City Tool, based on an Artificial Intelligence-Generated in-depth literature Review of Smart City Education Topic: Smart Education and Multidisciplinary Analysis
S2	P05750	Conversation Analysis (CA)-informed Algorithmic Approach to Augmenting Closed Captions with Stressed Syllables to Help Thai EFL learners Improve Their English Pronunciation Topic: Smart Education and Multidisciplinary Analysis
S3	P05876	Low-Cost Smart Sensing Pipeline: Assembly, Calibration, and Interpretation of Air Quality Data Topic: Smart Environment
S3	P05798	YOLO-Based Waste Classification and Detection for Smart Recycling Topic: Smart Environment
S3	P05767	Utilizing Gliding Arc Plasma for CO2 Management and Enhanced Agriculture Toward Smart and Sustainable Cities Topic: Smart Environment
S3	P05765	Integrating DBD Plasma-Enhanced Seed Germination for Promoting Sustainable Agriculture in Smart Cities Topic: Smart Environment
S3	P05734	Drone Pollution Tracking in Cities using Recurrent Proximal Policy Optimization Learning Topic: Smart Environment
S4	P06160	DESIGN AND IMPLEMENTATION OF A SOLAR OFF-GRID CONTAINER HOME Topic: Smart Power System
S4	P06159	Dynamic Impact of Cyber-Attacks on Grid-Forming Inverters Topic: Smart Power System
S4	P06035	A Serious Game Connecting the Smart Meters of Residential Users for Demand Side Management: Lessons Learned in the Preparation Stage Topic: Smart Power System
S4	P05847	A Rule-Based, Grey Wolf Optimizer, and Support Vector Machine Approach for Undervoltage Localization in Low-Voltage Distribution Systems Topic: Smart Power System
S4	P05804	Mitigating Electrical Instability in Northern Thailand: Microgrid Approach with Optimized Energy Storage System Topic: Smart Power System

Oal Session	Code	Title
S5	P06043	Development of a High-tech Multi-loop Aquaponics System with Green Internet of Things and Semi-transparent Agrivoltaics Topic: Smart Energy Systems
S5	P06010	Experimental study of a bi-directional thermal and electricity prosumer with simultaneous heating and cooling heat pump system Topic: Smart Energy Systems
S5	P05780	Study on Adaptation of Model-Agnostic Meta-Learning Integrated Deep Q Learning for HVAC Control Topic: Smart Energy Systems
S5	P05778	Data-Driven Insights for Smart Energy Efficiency Management of a Heat Pump Water Heating System Topic: Smart Energy Systems
S5	P05768	A Comprehensive Review of Battery Energy Storage Systems for Grid Stability and Renewable Integration: A Focus on Lithium-Ion's Grid Batteries in Thailand Topic: Smart Energy Systems
S6	P06017	Integrating Urban Operation Center Systems for Enhanced Smart City Management and Emergency Response Topic: General or Related Track
S6	P05785	Testing Routing Strategies by Simulating the Mobile IoT Edge/Cloud Continuum Topic: General or Related Track
S6	P05769	Does the smartening of cities imply a demand for a new leadership model? Topic: General or Related Track
S6	P05760	An Adaptive Momentum Driven Variable Step-Size Filtered-x Weight Accumulated LMS for Improved HNANC Topic: General or Related Track
S6	P05679	Internet of Things in the Advancement of Smart Cities on Brazil Topic: General or Related Track
S7	P05799	Fire Detection Automation in Search Drones using a Modified DeepLabv3+ Approach Topic: Smart Transportation
S7	P05796	SmartMoveChain: A Proposal of a Conceptual Unifying Scalable BMaaS System for Smart Cities Topic: Smart Transportation
S7	P05775	Physical Model Approach for Estimating Energy Consumption of Electric Vehicle Topic: Smart Transportation
S7	P06006	Making pedestrian and micromobility routing inclusive through personalisation and feedback Topic: Smart Transportation
S7	P05673	Full coverage of charging stations: A case study in Japan road network Topic: Smart Transportation
S8	P06142	SITAtlas: An AI-Enhanced Geospatial Navigation System for Smart Campus Environments Topic: Smart Education and Multidisciplinary Analysis
S8	P05991	Rainwater Collection in Rural Communities: Experience of a Capstone Project for Students of Sustainable Development Engineering Topic: Smart Education and Multidisciplinary Analysis
S8	P05911	Bridging Disciplines for Sustainability: Exploring Faculty Perspectives on Key Competencies for Sustainability Topic: Smart Education and Multidisciplinary Analysis
S8	P05781	Embracing Artificial Intelligence in Higher Education: Opportunities and Challenges for a South African University of Technology Topic: Smart Education and Multidisciplinary Analysis
S8	P05752	Comprehensive Security Measures in IT: A Unified Approach to Mitigate Internal and External Threats Topic: Smart Education and Multidisciplinary Analysis

Oal Session	Code	Title
S9	P06022	Enhanced Non-Intrusive Load Monitoring using Convolutional Neural Networks and Synthetically Balanced Appliance Consumption Patterns Topic: Advanced Applications and Data Analysis for Smart Cities
S9	P05784	A Machine Learning Application for Smart Government: Dashboards for Effective Taxation of Property Taxes Topic: Advanced Applications and Data Analysis for Smart Cities
S9	P05782	Causal Reinforcement Learning for Optimisation of Robot Dynamics in Unknown Environments Topic: Advanced Applications and Data Analysis for Smart Cities
S9	P05749	Digital Twin Framework For Fault Detection and Diagnosis in Smart Buildings Topic: Advanced Applications and Data Analysis for Smart Cities
S9	P05663	Bridging the Gap: Microcontroller Approaches to Industrial Connectivity Evolution Topic: Advanced Applications and Data Analysis for Smart Cities
S10	P06172	Trends and Variability of Thunderstorm Days in Thailand: Implications for Lightning Protection Topic: Smart Power System
S10	P06162	Hybrid Energy Storage System in DC Microgrids – An Enhanced Distributed Coordinated Control Topic: Smart Power System
S10	P06158	Grid-Forming Inverters using Phase-Locked Loop for Enhancing Frequency Stabilization Topic: Smart Power System
S10	P06137	An improving of MEA distribution system performance with integrated OLTC-transformer and energy storage system Topic: Smart Power System
S10	P06140	Comparison of Insulation Cable Voltage Withstand Testing requirement Using Very Low Frequency Test Methods According to IEC and IEEE Standards Topic: Smart Power System
S11	P06200	Integration of Building Integrated Photovoltaic (BIPV) Façade System to Maximize Self-consumption Energy of High-rise Buildings in Thailand Topic: Smart Energy Systems
S11	P06146	Smart Energy Guardian: A Hybrid Deep Learning Model for Detecting Fraudulent PV Generation Topic: Smart Energy Systems
S11	P06131	Energy self-sufficiency by building and load type in smart village communities: A large-scale long-term experimental evaluation Topic: Smart Energy Systems
S11	P06127	Smart Streetlight by using Smart Meter Network Topic: Smart Energy Systems
S11	P06089	Decision Support Tools for Developing Energy Strategies in Smart Cities Topic: Smart Energy Systems
S11	P05777	Integrated Energy Management System and Optimization in Smart Grids: Case of Smart Campus in Thailand Topic: Smart Energy Systems
S12	P06133	Impacts of Tourism Activities on Housing Affordability: A case study of Malta Island Topic: General or Related Track
S12	P05903	Salve Elas: A Comprehensive Mobile App for Combating Domestic Violence in Smart Cities Topic: General or Related Track
S12	P05894	Enhancing Smart City Solutions: A Study on Communication Protocol Efficiency and Effectiveness Topic: General or Related Track
S12	P05840	Modeling the Impact of Pedestrianization on Urban Air Quality Topic: General or Related Track

Oal Session	Code	Title
S12	P05763	Contrast Enhancement of Image Using Dynamic Range between Histogram Valley and Gamma Transformation Topic: General or Related Track
S13	P05733	Automating Emergency Landing in Cities with Cognitive Stress Reducing Explanations to Pilot-in-the-Loop Topic: Smart Transportation
S13	P06032	Enhanced ETA Predictions with T-GCN on Optimized Road Segments Topic: Smart Transportation
S13	P06028	Securing Smart Transportation: Blockchain and IoT for Sustainable Cities Topic: Smart Transportation
S7	P06006	Making pedestrian and micromobility routing inclusive through personalisation and feedback Topic: Smart Transportation
S13	P05963	Bidirectional Charging Use Cases: Innovations in E-Mobility and Power-Grid Flexibility Topic: Smart Transportation
S13	P06023	SCOUT-PARK: Smart Camera Optimization for Unified Tracking and Advanced Vehicle Recognition in Indoor Parking Systems Topic: Smart Transportation
S14	P06034	A Methodology for School Accessibility: Integrating Student Commutes and School Capacity Topic: Advanced Applications and Data Analysis for Smart Cities
S14	P06026	Smart Cities apply deep learning and blockchain for Human identification in illegal graves through dental tartar analysis and its relation to soil territory Topic: Advanced Applications and Data Analysis for Smart Cities
S14	P06025	Filling in the Blanks: Applying Data Imputation in incomplete Water Metering Data Topic: Advanced Applications and Data Analysis for Smart Cities
S14	P05786	An Artificial Intelligence Tool for Identifying Tax Evasion Rates in Smart Government Topic: Advanced Applications and Data Analysis for Smart Cities
S14	P06029	DVB-S Based Passive Radar as Single Node of Low-Cost Sensor Network for Smart City Protection Topic: Advanced Applications and Data Analysis for Smart Cities
S14	P05770	Continuous Lot-by-Lot Sampling plan incorporating Single Sampling Methodology for Zero-Inflated Poisson Scenarios Topic: Advanced Applications and Data Analysis for Smart Cities
S15	P06136	Reconstruction of 3D Point Cloud of Entire Greenhouse using RGB-D Camera Topic: Smart Environment
S15	P06135	Indoor Air Quality Assesement Monitoring and Control: Planning the TwinAIR project Swedish Pilot Topic: Smart Environment
S15	P06120	Photovoltaic Surface Environmental Contaminant Detection Based on Saliency Prediction Topic: Smart Environment
S15	P06021	AquaMOM: Adaptive IoT System for Water Monitoring in Challenging Environments Topic: Smart Environment
S15	P05756	IoT-Enabled Environmental Monitoring and Forecasting with GSM-Based Alerts Topic: Smart Environment
S15	P05754	Value of Coupled Flood Modelling in Urban Areas for Decision-Making on Mitigation Measures Topic: Smart Environment
S16	P06199	A Simple TimeGPT-Enhanced Load Forecast Method for Optimal Power Flow in Islanded Microgrid Control Topic: Smart Power System
S16	P06183	Battery Degradation Assessment for Electric Vehicles Participating in Frequency Containment Reserve Topic: Smart Power System

Oal Session	Code	Title
S16	P06170	Health Index of Old Category Gas Insulated Switchgear Topic: Smart Power System
S16	P06216	Dynamic Optimization for Smart EV Charging: Insights from the DymoBat Project Topic: Smart Power System
S16	P06126	Voltage Issue Alleviation in Low Voltage System with High PV and EV Penetration Using Distribution Transformer with On-Load Tap Changer (OLTC) Topic: Smart Power System
S16	P06195	Mitigation of Equipment Overload and Undervoltage for Electric Vehicle Charging in Low-Voltage Distribution System Topic: Smart Power System
S17	P06111	FEDAR: Federated Association Rules based on DAG for Distributed Knowledge Environments Topic: Data Center and Cloud Technologies
S17	P06091	Design and Implementation of Green Internet of Things in Container-Based Multi-Loop Aquaponics System Topic: Data Center and Cloud Technologies
S17	P06031	Enhancing Security of Smart Cities with "Signal for Help" Recognition System Topic: New Habitats in Smart Cities
S17	P05783	Urban rehabilitation model: A blueprint for efficient, livable, smart and sustainable urban environments. Topic: New Habitats in Smart Cities
S17	P05678	Stray Dogs: Unsung Heroes of Our Streets and Neighborhoods Topic: New Habitats in Smart Cities
S18	P06143	Community Biochar Kiln for Efficient Agricultural Waste and Biomass Disposal Topic: General or Related Track
S18	P06114	The Montreal Model for Integrating Ethics and Legal Compliance to Data Governance Frameworks for Smart City Projects Topic: General or Related Track
S18	P06024	When Circular Economy Meets the Smart City Ecosystem: Defining the Smart and Circular City Topic: General or Related Track
S18	P06102	Opportunities and Challenges in Landfill Mining Business in Thailand in the Government Agencies' View Point Topic: General or Related Track
S18	P05902	A Novel Volumetric Vehicle Counting Using Artificial Intelligence in Smart Cities Topic: General or Related Track
S18	P06218	Evaluating Spatial Centrality Dynamics in Tourist Hubs: An In-Depth Analysis of Phuket, Thailand Topic: General or Related Track
S19	P06132	Enabling Sustainable Urban Mobility: The Role of 5G Communication in the Mobilities for EU Project Topic: Smart Transportation
S19	P06129	Tracing the Evolution of Artificial Intelligence Patent Trends in Green Transportation Topic: Smart Transportation
S19	P06112	Adaptive Cluster-Based Synthetic Minority Oversampling Technique for Transportation Mode Choice Prediction with Imbalanced Data Topic: Smart Transportation
S19	P06110	Ultimate Ride: Minimizing Costs for Travel Bus Operator Topic: Smart Transportation
S19	P06033	Synthetic Population Generation for Autonomous Vehicle Demand Forecasting Topic: Smart Transportation
S20	P06154	Requirements Engineering for Smart Cities: Emerging Trends and Techniques Topic: General or Related Track
S20	P06151	BlockEdge-based Private Virtual Storage for Personal Data Privacy Protection Topic: General or Related Track

Oal Session	Code	Title
S20	P06018	The Role of Smart Solutions Deployment: Insights from a Smart City Initiative Topic: General or Related Track
S20	P06153	Opportunities and challenges in elections through e-voting: an analysis on voters participation Topic: General or Related Track
S20	P05758	Enhancing Soft Target Protection in Smart Cities: Comparing Stakeholder and Citizen Perspectives Topic: General or Related Track
S21	P06150	Eggplant Detection and Counting Across the Entire Greenhouse Using Deep Learning and Motion Parallax Topic: Advanced Applications and Data Analysis for Smart Cities
S21	P06147	Blockchain-based Built Environment Data Management for Modular Construction Topic: Advanced Applications and Data Analysis for Smart Cities
S21	P06138	Novel Application Creation Paradigm using Natural Language Compiler based on LLM Topic: Advanced Applications and Data Analysis for Smart Cities
S21	P06134	VR Pedestrian Simulation to Promote Understanding of Different Perspective for Implementing Walkable City Topic: Advanced Applications and Data Analysis for Smart Cities
S21	P06125	Data Driven Solid Waste Management Optimization with Vehicle Routing and Redistribution Strategy Topic: Advanced Applications and Data Analysis for Smart Cities
S21	P06109	Enhanced Dandelion Optimizer for global optimization and engineering problem Topic: Advanced Applications and Data Analysis for Smart Cities
S22	P06207	Optimal Placement and Sizing of Energy Storage Systems in Low Voltage Distribution Network Topic: Smart Power System
S22	P06165	Design of Rooftop PV System and EV Supply Equipment for Home According to Electrical Installation Standards in Thailand Topic: Smart Power System
S22	P06157	Implications of Decoupling VFID State-State Models for Enhanced Simulation CPU-Time Topic: Smart Power System
S22	P06108	Design and Development of a Leakage Current Monitoring System for Suspension Insulators on a HV Transmission Tower Topic: Smart Power System
S22	P06221	Solid-State Transformer Using Dual Active Bridge for Power Distribution Systems Topic: Smart grid and applications
S23	P06186	Supervised EV charging Scheduling Algorithms with AMI System Coordination Topic: Smart Transportation
S23	P06149	Advanced Machine Learning for Predicting Parking Availability in Urban Areas Topic: Smart Transportation
S23	P06144	Agent-Based Decentralized Energy Management of EV Charging Station with Solar Photovoltaics via Multi-Agent Reinforcement Learning Topic: Smart Transportation
S23	P06148	Torque Ripple Mitigation Using Field Oriented Control Methods for Electric Motorcycle Topic: Smart Transportation
S24	P06161	Standalone Microgrids: A Sustainable Solution for Remote Dwellings in South Africa Topic: General or Related Track
S24	P06141	ScaleCity: Toolset for Constructing Urban Data Visualization Using 3D Printed Transparent City Topic: General or Related Track
S24	P06030	Government Approaches to Requirements Gathering in Smart Cities: Lessons Learned for Southeast Asia Topic: General or Related Track

Oal Session	Code	Title
S24	P06155	Mapping Bangkok's Informal Transit: Geospatial Insights for Smart Mobility Topic: General or Related Track
S24	P05885	A Multi-Criteria, Multi-Expert Sports Technology Maturity Model for the Evaluation of Smart Cities Topic: General or Related Track
S24	P06219	Spatial Estimation of Carbon Emissions in a Tourist City: A Geostatistical Approach for Phuket, Thailand Topic: Sustainable urban and regional planning for Smart Cities
S24	P05877	Provision of a smart medical and wellness travel program for hemodialysis patients Topic: General or Related Track