

International Conference on Smart Living

31 March – 1 April 2022

Hong Kong

CALL FOR PAPERS

The International Conference on Smart Living aims to provide a platform for engineers, researchers, scholars, industrial professionals to carry out extensive exchanges and in-depth discussions on technologies such as Cloud Computing, Internet of Things (IoT), Big Data, Artificial Intelligence (AI), Intelligent Hardware, Augmented Reality (AR), as well as the impacts to the public and the opportunities and challenges for urban development brought about by the emerging applications, business models and management methods.

ORGANISERS

- ◆ The Hong Kong Institution of Engineers (HKIE)
- ◆ The Chartered Institution of Building Services Engineers (CIBSE)
- ◆ Shanghai Association for Science and Technology (SAST)

THEME

Smart Living – Concepts and Practices

SCOPE OF TOPICS

Topics of interest for submission include, but are not limited to:

A. Construction

- CAD (Computer Aided Design)
- VAR + AR (Virtual Reality and Augmented Reality) in construction
- Advanced technology in construction
- Intelligence construction technologies
- Construction equipment analysis
- Construction methods and systems
- Information technology for construction
- New production and business models in construction
- Process simulation
- Productivity improvement
- Others

B. Big Data

- Analysis approaches in Big Data
- Edge computing
- Cloud edge fusion computing
- Hybrid data storage – combining edge computing and cloud storage
- Multi source heterogeneous data analysis
- Distributed sensor data collection and processing
- ICT systems of communication and analysis of Big Data
- Big Data and its applications for smart city
- Blockchain and its applications
- Deep learning and data visualisation
- Distributed AI algorithms
- Others

C. Healthcare

- Population health surveillances and related technologies
- Disease surveillance and related technologies
- Accidence surveillance and related technologies
- Robotic and automatic/AI systems to support aged/disable people
- Intelligent management of health care equipment/vehicles
- Health lifestyle monitoring and recommendation systems
- Environmental monitoring and related technologies for health care
- Intelligent devices and sensors for smart healthcare
- Artificial Intelligence for smart healthcare
- Others

E. Transportation

- High speed rail, hyperloop and related technologies
- Low, medium and high speed maglev traffic
- Public transportation/slow transportation/shared transportation mode
- Holographic sensing technology in complex scenes
- Intelligent parking
- Driver behaviour monitoring and modelling
- Mixed-autonomy road traffic management
- Advanced ICT infrastructure for smart transportation
- Urban logistic, multimodal transportation and Mobility as a Service (MaaS)
- 5G/6G enabled vehicular communications

D. Lighting

- Green lighting systems
- Energy saving devices in lighting
- Lighting energy management systems
- Smart street lighting
- Smart building lighting
- Control and monitoring of outdoor lighting pollution
- Miniaturisation/micro LEDs
- Simulations of lighting for smart design
- Smart lighting for human health, human-centric lighting
- Wi-Fi luminaires
- Others

- Unmanned Aerial Vehicles (UAVs) enabled smart transportation
- Communication technologies for connected and autonomous vehicles in land, water and sky
- Electric vehicles and transportation electrification
- Simulation and modelling for smart transportation
- Smart coordination of traffic lights
- Others

The Conference welcomes papers that fall within the above or related areas.

SUBMISSION OF ABSTRACTS

All abstracts with contact details should be submitted via the Online Abstract Form (which is available on the website: <http://www.hkie.org.hk/smartliving2022>) **on or before Friday, 13 August 2021.**

(Extended to Friday, 3 September 2021)

The abstract, in a maximum of 300 words, should clearly indicate the aims and conclusions of the work to be described in the final paper. The abstract/paper to be submitted should be of an original nature and has not been published in whole or part by any journal or publication.

For submission,
please visit
the event webpage:



KEY DATES

Deadline for Submission of Abstracts

Notification of Acceptance of Abstracts

Submission of Full Papers

Notification of Acceptance of Full Papers

(Extended to Friday, 3 September 2021)

~~Friday, 13 August 2021~~

Friday, 17 September 2021

Friday, 12 November 2021

Friday, 10 December 2021

CONFERENCE SECRETARIATS

HKIE

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