

2018 International Conference on Smart City and Intelligent Building (ICSCIB 2018)  
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**Special Session on:**

**“Smart Underground Space”**

*Session Organisers:*

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**Description:**

Due to effectively improving ground conditions and environments such as traffic jams and pollution, the development and utilization of underground space is an emerging trend in modern cities around the world. Subways, utility tunnels, underground commercial streets, civil air-defence engineering, and so on are typical underground space facilities.

Nowadays, an era of smart underground space is coming. It involves integrating and applying the intelligent techniques into planning, design, construction and maintenance to realize the efficient operation and energy saving of the underground space. The smart underground space research is one of the hot topics in the area of smart city and intelligent building.

This special session focuses on research and application of intelligence and information technology in underground architectures as subway, urban utility tunnels, civil air-defence engineering, etc.

**Objectives:**

The aim of this special session is intended to seek the chance of exchanging recent achievements in Smart Underground Space technology.

Original papers are welcome in planning and design of smart city underground space, Building Information Modelling (BIM) of underground space, optimal control and management of underground facilities, intelligent security supervising of underground architecture, etc.

**🔍 Subject Coverage** (not limited to)

- Digital investigation and modelling techniques for the underground space
- Planning, design, construction and maintenance of the underground space based on BIM
- Applications of AI, IoT, BigData, Cloud-Computing and Robotics in the underground space
- The intelligent security techniques for the underground space
- The intelligent evacuation and rescue techniques for the underground space
- Smart underground transportation

- Smart utility tunnel
- Smart underground parking
- Smart civil air-defence engineering
- Smart underground logistics systems