#### Session title: Digital transformation for the construction and building

#### management - BIMM

**Organisers:**

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**Short presentation:**

The sector of Architecture Engineering & Construction (AEC) is currently evolving towards the digital age: Building Information Modelling and Management (BIM) are spreading fast in building companies, thus reducing the building design cost and time. While BIM mainly focuses on the design phase, the Internet of Things and the new paradigm of Industry 4.0 are additional opportunities for actors of the building sector to improve their products, processes and services in various phases of the building lifecycle (construction, usage, renovation and dismantlement). The obvious linkage between the real world and the virtual world provided by the Internet of Things allows designing new data management architectures and innovative management strategies.

This session will focus on applications of digitization strategies applied to the AEC sector. In this context, authors are invited to submit unpublished contributions in the following areas:

• Multi-Agent Systems for building energy management

• Multi-Agent Systems for construction site management

• Intelligent Asset Management for the AEC

• Distributed data management in the AEC

• Intelligent and decentralized control in the AEC

• Digital twin for the AEC

• Interoperability in the AEC

• Case studies and Returns on Experiences

**Keywords**:

Multi-agent system, decentralized control, digital twin, data management, construction sector

**Important dates**:

* Full paper submission: **March 19, 2018**
* Notification of acceptance: **March 26, 2018**
* Final, camera-ready paper submission: **April 16, 2018**
* Early registration and fee payment: **May 7, 2018**