



Call for papers– Research Workshop EDUBIM – 15 may 2018

EDUBIM is the meeting of teachers and trainers of BIM, proposed and supported by MINND Project. After the first edition in 2015 to ESITC (Caen), the second edition in 2016 at ESTP (Cachan), the third edition in 2017 at CESI (Nanterre), EDUBIM 2018 organized by the University of Clermont Auvergne will host the meeting on the 15th and 16th of May 2018. The network of teachers and trainers that form EDUBIM includes all levels of training. Maturity and richness of exchanges and the desire to capitalize on this knowledge production led to create in this context a research workshop, this 2018 edition will be the second version of the Research Workshop and enrolling in an international context. Save the date for the workshop : **15 may 2018**.

The arrival of BIM in the field of construction profoundly modifies the design process, implementation, operation and maintenance of buildings and infrastructures. It works on all construction processes modifying the activity, the management, sector companies, their partnerships and also contracts. We ask as a postulate that this arrival of BIM is not simply important development as it changes with versions of complicated software channels but it involves a profound change in process. Therefore, the arrival of BIM in the construction industry challenges and involves several scientific disciplines and revolutionizes, first of all, civil engineering disciplines, urban engineering, urban planning and architecture.

This testing of several disciplines in a new context, requires the construction of a scientific community that addresses these problems facing these situations and be able to query but also contribute to changing disciplines. This is the objective of this research workshop. This is a testing in a new context that requires a true conceptual work, helping to advance these disciplines. Contributing works are expected in several areas.

These conceptual works will be at the heart of disciplines but will increasingly be mostly discussed multidisciplinary and systemic way. Indeed the multidisciplinary approach will take into account a complex professional environment and will construct theoretical proposals likely to intervene in the discussion of each of the scientific disciplines. Processes such as those of cooperation and innovation, especially of disruptive innovation, such are hardly treated appropriately by a single discipline. Similarly, business processes, and modeling of new business processes are relevant both for architectural, civil and urban engineering, information systems and management science.

The social and legal sciences cannot be absent from this multidisciplinary approach. Primarily, science organizations and management can largely be put to use through the issues of the management of project teams, sites. Through concepts like that one of PLM for very specific products BTP, changing business models including the changing roles from design to construction and operation of the works and their dismantling. Finally, the HR aspects may be examined through the development of new skills and new nomenclatures to implement. Economic and legal conditions, such as the conditions of design and built and developments legal tools and coaching sector economic conditions tools, like the MOP law deserves to be studied. The sociology of organizations can also help with situated studies.

Expected papers will cover all areas mentioned including:

- The modes of cooperation between software (Interoperability, standardization and standards) [IFC, CoBIE, ...]

- The integration of sustainable development objectives: social and managerial terms of phases of destruction and recycling of buildings, roads and structures.
- The development of the businesses from the perspective of sociology of trades
- Developing ontology on the domain.
- Teaching new tools and their usage contexts
- Teaching methods for BIM collaboration
- Creativity and BIM : From first ideas to model
- GIS links / BIM tools and all the issues of spatial situations
- The conditions and processes of innovation in the context defined by BIM
- Lean management
- Modeling BIM objects
- Modeling of new business processes
- Processes and BIM technologies
- openBIM
- Big Data
- The development of skills
- Project driving including a BIM approach

Expected papers shall be from 9 to 12 pages, references included. They can be written in French **or** English, abstract in English **and** French. Digital proceedings will be published and deposited on the MINND project website. Papers will be reviewed, following academic way, by two scientists in the field.

Deadline for full papers: 3 January 2018 – Repository : <https://edubim2018.sciencesconf.org>

Accepted papers with or without revision will be announced: 15 February 2018

Last year the proceedings has been published at Eyrolles Editions under the title “Le BIM éclairé par la recherche : Modélisation, collaboration & ingénierie” - ISBN 978-2-212-67471-2. This year, we are working to renew the exercise.

Scientific committee:

Chair: Nader Boutros (EVCAU, ENSA Paris Val de Seine / PASS Technologie)

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Miguel AZENHA (U Minho)	Arto KIVINIEMI (S of Arch., Liverpool U)
Geoffrey ARTHAUD (MEER)	Samir LAMOURI (ENSAM)
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Organizing Committee: Aurélie Talon and Gaëlle Baudouin (UCA Polytech)