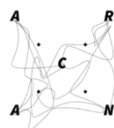# SCAN'18

8th Digital Architectural Design Seminar

Immersion | Emersion

SCAN brings together researchers around questions related to the implications of digital in architectural design. After having tackled the themes of digital sketching (2005), digital imagery (2007), environmental approaches (2009), collaborative space (2010), complexities of digital architecture models (2012), digital model interactions (2014), and the link between morphological modeling parameters and constructive specification parameters (2016), this 8th edition, organized by the AAU UMR at the *Ecole Nationale Supérieure d'Architecture* of Nantes (France), extends the debate to the dynamics of immersion-emersion and its contributions to the design of architectural and urban projects.

In line with the conclusions of previous editions of the seminar, we agree that digital architectural design fundamentally transforms the project process, and cannot be reduced to the mere use of a set of software tools. The introduction of systematic measures in the parametric sense, in the continuous process, from the model to the materialization, interacts with all the other dimensions of the project, in particular historical, cultural, societal, aesthetic and economic aspects. The design process then benefits from potentially very diversified inputs, both in terms of responsiveness and conversational capacity, replicability and transposability, but also from taking into account the contextual elements (in terms of environmental impacts: microclimate, energy behavior, mechanical and thermal structures, life cycle analysis components, modes of living, etc.

This design assistance, a real ubiquitous, multifaceted lever with multiplier effects, gives us ability to see features and elements of context that were previously inaccessible. It also immerses us - at the risk of submersion - in the site, in the model, in the data, in the project... an overabundance of enveloping flows in perpetual need of attention.

SCAN'18 proposes to question the tension between multiple immersions and emersions (and the implied notion of attention), with reference for example to pervasive numerical devices that allow the subject to make joint use of both an in-situ immersed point of view and as an ex-situ and synthetic vantage point. This question, as well as all those that it implies, has many implications for the research and pedagogy conducted in our institutions, and more generally for architectural and urban production.

Call for Papers

The authors are invited to explore the immersion-emersion theme with regard to the following topics:

⇒ Immersion/emersion in virtual, augmented and mixed environments for architectural conception and design
Interactive digital environments | Representation and visualization of spaces | Augmented, diminished and mixed reality | interaction

⇒ Immersion/emersion in/by geometric and parametric models for architecture
Parametric design | Direct/inverse approaches | Morphogenesis | Digital mockups | Bio-mimicry | Manufacturing processes

⇒ Immersion/emersion − pedagogical and methodological aspects
Experiences in education | Teaching devices | Processes and methodologies | Low-cost apparatus

⇒ Immersion/emersion of atmospheres in the digital world
Representation of sensorial phenomena | virtual atmospheres | Multi-sensorialities | Corporeal experiences

⇒ Immersion/emersion epistemology, references, writing process
Characterization-evolution of devices | Narrations and new forms of writing | Prospective

⇒ Immersion/emersion in the design and manufacturing processes of architecture / *BIM*
Design project management | Communication and cooperation | Epistemology of design | Knowledge representation

Important dates

- Submission deadline: ~~15~~ **31 Jan** 2018, 1:00 PM (CET)
- Notification of paper acceptance: 19 Mar 2018
- Camera-ready deadline: 2 May 2018, 1:00 PM (CET)
- Conference: 25-26 Oct 2018

Guidelines

Four types of communications are expected:
- Scientific article, 6-10 pages
- Pedagogical article, 6-10 pages
- Applied article, 2-4 pages
- Demo or poster

All article proposals and posters will be reviewed by at least two members of the scientific committee. The program committee will evaluate the expertise of all applicants and proceed to the selection. Authors of selected articles will then submit their final manuscript. Selected articles will be subjects of an oral presentation and published in the conference proceedings.

More information and stylesheets on the SCAN'18 website.

http://scan2018.sciencesconf.org