25.11.2019 • Call for Papers

24.01.2020 Deadline for the
Abstract Submission

24.02.2020 Final Announcement of the Accepted Papers

30.03.2020 Final Full-text Submission

30.04.2020 • Symposium



International Symposium

Architecture, Technology and Innovation 2020

"Smart Buildings, Smart Cities"

*Selected papers will be published in the International Journal of *Digital Innovation in the Built Environment" as a special issue.



Keynote Speaker

PATRICK TEUFFEL

CONCEPTUAL STRUCTURAL DESIGN, LIGHTWEIGHT STRUCTURES, ADAPTIVE STRUCTURES



Patrick Teuffel studied civil engineering at the University of Stuttgart from 1991 to 1996 with a focus in Conceptual Structural Design. From 1999-2003 he carried out his PID, about the application of adaptive systems in architecture and engineering, at the University of Stuttgart. Patrick's vision for the research of ISO focuses on lightweight and adaptive structures, as well as the application of innovative materials, such as smart materials or bio-based materials. In the centext of lightweight and adaptive structures he is using numerical and experimental models to optimize the design and construction processes, in addition, he is conducting research for the development of 'smart skins' using textiles with integrated smart materials, which have variable properties in shape, stiffenses, viscosity and framsmission.

Invited Speakers

KORAY VELIBEYDĞLÜ SAURT CHEL URBAR TROMECÜREL SUSTABARIR



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'Call for Papers'

Technology has always been pivotal in shaping the society. Advances in information technologies and material sciences in the course of the twenty-first century have irreversibly altered not only everyday life of individuals, so that the structural tenets of societies but also the design, construction and management methods in architectural, engineering and urban practices. Beyond these alterations, recent innovations in emergent technologies such as Internet of Things (IoT) and/or Machine Learning have started to define unprecedented needs and requirements for the built environments. Moreover, environmental problems like pollution, source limitations, overcrowded cities, climate change, extreme weather conditions and the social crises that they cause on the doorstep require each and every profession to rethink its role in the ever changing conditions of today's dynamic political and economic agenda, make urgent decisions to adjust itself and take immediate actions. Cutting edge technological developments and innovations have the potential of being both remedy and poison for these environmental, economic and social upbeavals.

In order to give insights into the role of technology and innovation in the practice and critical theory of contemporary architecture, Yaşar University initiates the International Symposium of Architecture, Technology and Innovation (ATI), which is planned to be organized annually from this very first one onwards. The symposium aims to provide scholars a transdisciplinary platform where theoretical, technical and/or practice-based state-of-the-art research findings revolving around a yearly theme in the larger framework of ATI can be discussed reciprocally.

Themes

- Big Data and Data analytics
- ▶ Virtual Reality (VR) Technologies
- Augmented Reality (AR) Technologies
- Finergy Efficient Design
- Smart Energy Grid
- Smart Transportation and Parking
- ▶ IoT Applications
- Artificial Intelligence and Machine Learning
- GIS, Smart Communities and Urban Mobility
- ▶ Transformable / Deployable Structures
- Adaptive Systems
- Responsive Façades
- Origami-Based Structures
- ▶ Computational Design and Fabrication
- Sustainability and Structural Design
- ▶ Smart and Bio-based Materials
- ▶ BIM Technologies
- ▶ Digital Humanities



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