

Introduction

Design means to analyze, compare, manage and connect a large amount of data in order to develop, expand and materialize the starting idea, which was born to solve the initial problem. In this process, the engineer is the bridge of connection between the creative moment and its real implementation. The evolutionary characteristic of the design procedure often requires an iterative approach. It improves the solution step by step by means of different professional figures who act together to obtain the best result. Indeed, it is never an individual task but a team job in which collaboration is the most powerful key of success.

In this complex reality, the potential of modern technology highlights the needs of a strong background knowledge capable of supporting and developing the engineering sensibility to control the whole design procedure. Actually, its dynamic evolution, constantly pushed by the new science innovations, represents a current challenge for engineering schools. They have to find the most effective way to transmit the necessary skills to nowadays students to let them become the future bridge of connection for new engineering solutions. The Design in Civil and Environmental Engineering (DCEE) series of workshops explore what it would mean for design to be a discipline within Civil and Environmental Engineering and the implication for interdisciplinary design in corporation with other fields such as Architecture, Urban Planning, Topography and more.

We are pleased to invite you in Cagliari (Italy – Sardinia) to the 6th International Workshop on Design for Civil and Environmental Engineering where we will explore the nature of design in civil and environmental engineering and establish the foundation for civil design research.

Call for Papers

You are cordially invited to submit a paper for the 6th International Workshop on Design in Civil and Environmental Engineering. Original research papers, educational and professional case studies, and editorial essays are all welcome. Papers must be original, unpublished, and written in English. Abstracts and papers will be reviewed by the International Advisory Committee. Authors will be notified of the results via e-mail.

The abstracts should be written in English and must not exceed 250 words.

Abstracts should be submitted by e-mail as PDF files to: secretariat@dcee2017.org

Peer-review accepted papers will be published in the DCEE 2017 Proceedings and will also be available in electronic form, with a proper DOI.

The most valuable articles will be selected and recommended for publication, in the extended form, in Special Issues of highly reputable journals, such as *Engineering, Construction and Architectural Management* and *International Journal of Structural Glass and Advanced Materials Research*.

At least one author of each accepted paper is expected to register and present the paper.

Topics include but are not limited to:

Design methodology

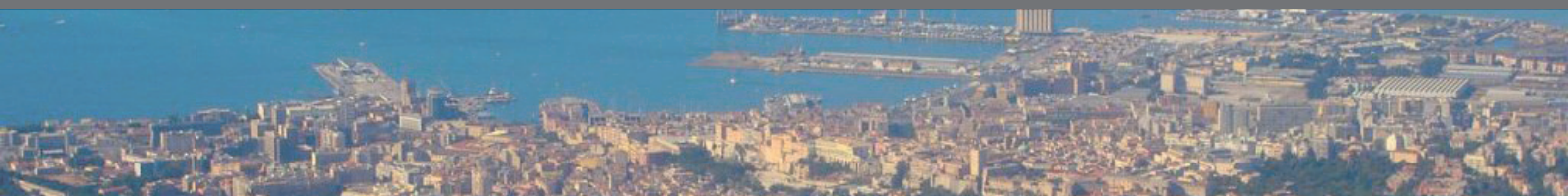
- Need of Integration and interdisciplinarity
- Philosophy & Aesthetics
- Form finding/Parametric Design, Optimization
- Influence from other sciences (e.g. biology, neuroscience)

Interdisciplinary challenges in engineering design

- Structure (Heritage structures, Civil/structural, new materials)
- Systems (Indoor climate/energy, District and urban scale, Resilience, Energy Harvesting)
- Surveying (Drones, metrology, photogrammetry)
- Life Cycle Assessment in engineering design
- Environmental Engineering (Flood risk and climate change design challenges)
- Construction Management and Building Information Modelling

Design education in engineering design

- Computer aided design (numerical models for analysis)
- Balance between general and specific competence
- Education to integrated design
- On line vs offline teaching
- Modern technologies for teaching



Workshop Chairs

Prof. Fausto Mistretta, University of Cagliari
 Prof. Mauro Sassu, University of Cagliari

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 Prof. N. Yabuki, Osaka University

Important Dates

July 30, 2017	>	Abstracts Due
August 15, 2017	>	Abstract peer review
September 15, 2017	>	Paper submission
September 30, 2017	>	Paper peer review
November 9-11, 2017	>	Workshop

Venue and Contact

DCEE 2017 will be held in the city of Cagliari, Sardinia, Italy.

The Department of Civil, Environmental Engineering of University of Cagliari will be the location for workshops and conferences.

During the event is also scheduled a visit to *Su Nuraxi*, in the small town of Barumini. *Su Nuraxi* is considered the most important archaeological site in Sardinia and it's also a UNESCO World Heritage site.

For more information and submissions please visit and contact

www.dcee2017.org – secretariat@dcee2017.org

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