



A Must-Attend Conference!

Call for Participation

The International Conference on Structures and Architecture is the world's leading and largest global conference bridging the gap between Structures and Architecture. The conference is organized by the International Association of Structures and Architecture, IASA and will be held at The Department of Architecture, Design & Media Technology, CREATE at Aalborg University, Aalborg Denmark, 6-8 July 2022.

The aim of ICSA2022 is to gather research and practical developments on the synergetic potential of architecture and structural engineering in an international, serious, and open environment bringing together researchers, practitioners and students. Each contribution must explore the relation between Structures and Architecture in the areas of Education, Research, and Cooperation or a combination of these and must address the overall framing of ICSA 2022 '**Structures & Architecture – in a viable urban perspective**'. With this framing ICSA2022 stresses the commitment and responsibility of structures and architecture as drivers of a viable urban development that address the pressing global social, economic, and environmental challenges facing us.

The conference facilitates the meeting of participants across academia and practice interested in the recent advances in the art, practice and theory of designing and building infrastructures signified by a conscious synthesis of structural and architectonic values. Hence, each presentation must explore the critical relation between Structures and Architecture.

The Call for Participation is for contributions in three categories: A Call for Research Papers including calls for contributions to special sessions and mini-symposia, a Call for Critical Practices, which is a new experimental contribution format, intended to bridge research in academia and research in practice, and finally, a Call for Associated Events.

Proceedings

The Conference Proceedings will be published at the conference by CRC Press / Balkema (Taylor & Francis Group), including a book of extended two-page abstracts of all Research Papers, Critical Practice Reflections, and a USB flash card containing the full eight-page Research Papers. These documents are reviewed by at least two members of the conference scientific committee. Proceedings will be sent for indexation by both Thomson Reuters and Elsevier. All the papers published in the proceedings of the four previous ICSA conferences have been indexed by Elsevier's SCOPUS. ICSA2022 proceedings will also be sent to Elsevier's SCOPUS.

Special Journal Issue

A special issue of the new journal '*Architecture, Structures and Construction*' will be published at ICSA2022 together with the proceedings. The special journal issue will contain selected papers submitted for the conference. These papers will be selected prior to the conference and will undergo the journal's peer-review process, hence, authors of selected papers will be asked to revise their papers according to the journal's submission criteria. Papers selected for this special journal issue will not be published in the proceedings, but they will be added to the conference program for oral presentation.

Awards

We are grateful that Springer is sponsoring a series of awards at ICSA2022:

- *Best Paper Award of the ICSA2022 conference*. The winner would get a certificate, a year free online access to both supporting journals and a book voucher for springer.com for the amount of 150 euros.
- *Best Paper Award for each mini-symposium*. The winner would get a certificate, a year free online access to both supporting journals and a book voucher for springer.com for the amount of 100 euros.
- *Young Researcher Award*. The winner would get a certificate, a year free online access to both supporting journals and a book voucher for springer.com for the amount of 100 euros.
- *Best Critical Practice Award*. The winner would get a certificate, a year free online access to both supporting journals and a book voucher for springer.com for the amount of 100 euros.

1. Call for Research Papers

The general call for Research Papers is for two-page extended abstracts + eight-page full papers. The presentation format at the conference will be 10-minute presentations followed by 10 minutes of questions from the audience.

Prospective authors are invited to submit abstracts of no more than 500 words before 28 February 2021. The abstracts are subject to a review process by at least two members of the conference scientific committee. The preliminary acceptance of abstracts will be sent to the corresponding authors by 15 May 2021. Proceedings will be published by CRC Press / Balkema (Taylor & Francis Group), including a book of extended two-page abstracts and a USB flash card containing the full eight-page papers. These documents are due on 15 November 2021 and are reviewed by at least two members of the conference scientific committee. Acceptance notifications will be sent to authors no later than 15 February 2022. Author instructions for preparation of extended abstracts and the full papers including copyright transfer form will be sent to authors in due time.

Prospective authors are invited to submit abstracts (max. 500 words) for any of the General Conference Themes or for any of the programmed Special Sessions or Mini-Symposia listed below:

General Conference Themes

- *Building envelopes / Facades*
- *Comprehension of complex forms*
- *Computer and experimental methods*
- *Concept architectural buildings / Futuristic structures*
- *Concrete and masonry structures*
- *Ecology of structures and architecture*
- *Educating architects and structural engineers*
- *Emerging technologies*
- *Glass structures*
- *Innovative architectural and structural design*
- *Innovations in the use of natural materials*
- *Lightweight and membrane structures*
- *Special structures*
- *Steel and composite structures*
- *Structural design challenges*
- *Tall buildings*
- *The borderline between architecture and structural engineering*
- *The history of the relationship between architects and structural engineers*
- *The tectonic of architectural solutions*
- *The use of new materials*
- *Timber structures*
- *Urban Structures & Architecture*

Special Sessions

- *The Architecture and Structure of Human Wellbeing*
- *Infrastructure Design and Socio-Ecological Agency*
- *Materiality in Architecture and Building Design*
- *Low-carbon Low-waste Structures*
- *Integrated Informed Design Processes*
- *Bio Design*
- *Cellulose-Based Materials in Structures and Architecture*
- *The Future of Bridges*
- *Towards a Robotic Structuralism*
- *Reimagining Bureaucracy*
- *Resilient Built Environment and Communities, Pre- and Post Disaster*

For the full description of the Special Session themes see; <https://www.icsa2022.create.aau.dk/special-sessions/>

Mini-Symposia

- *1:1, Tools and Programs*
- *Advances in Wood Construction*
- *BE-AM on Tour*
- *Radical Tectonics*
- *Adaptive Building Envelopes*
- *Structures and Architecture of Refurbishment*

For the full description of the Mini-Symposia themes see; <https://www.icsa2022.create.aau.dk/mini-symposia/>

2. Call for Critical Practices

The call for Critical Practices is a new experimental contribution format intended for demonstration of progress into the practice of the synergy of structures and architecture across the architectural scales ranging from details in façade systems, over innovations in spatial gestures and structural configurations of building typologies, to explorations of novel principles for viable urban infrastructures etc. Contributions within the Critical Practices category will be included in a demarcated section of the proceedings and will be subject to the same review process and to the same deadlines as the ordinary call for Research Papers. Contributions within the category of Critical Practices are to be submitted in two parts; a three-page written Critical Practice Reflection and a physical Critical Practice Prototype to be exhibited during the conference:

Critical Practice Reflection: The Critical Practice Reflection is a three-page written reflection positioning the Critical Practice within the state of the art of '*Structures and Architecture in a Viable Urban Perspective*' including references, drawings, photos and/or other forms of illustrations.

Critical Practice Prototype: The Critical Practice Prototype should fit on a designated podium (specifications and measurements will be provided in due time). The prototype can be of any scale, hence, a prototype can be for example a 1:1 section of a façade system, a 1:200 section of a housing complex or a 1:500 section of an urban environment etc. The authors are responsible for installing their prototype in the prototype exhibition at the conference venue no later than 5 July 2022 on the assigned podium. More information will follow in due time.

The presentation format at the conference will be a chaired session in the prototype-exhibition where authors present their prototypes followed by a panel discussion and award ceremony. During the panel discussion, a 'Best Critical Practice' award will be presented and further perspectives for bridging research in academia and research in practice will be discussed.

Prospective authors are invited to submit abstracts (max. 500 words) + illustrations describing their prototype before 1 May 2021. For Critical Practices, the full three-page Critical Practice Reflection paper with illustrations will be included in the proceedings published by CRC Press / Balkema (Taylor & Francis Group). Author instructions for preparation of the full Critical Practice Reflection including copyright transfer form will be sent to authors in due time.

3. Call for Associated Events

The conference invites associated events such as workshops, debates, and exhibitions. Each proposal should have a focused topic related to '*Structures & Architecture – in a viable urban perspective*'. Please contact us to discuss your ideas! secretariat@icsa2022.com

4. Key Dates

Research Papers

Abstract Submission: 28 February 2021 (23:59 CET)

Preliminary Abstract Acceptance: 15 May 2021

Full Research Paper Submission: 30 October 2021

Full Research Paper Acceptance: 15 February 2022

Critical Practices

Abstract Submission: 1 May 2021 (23:59 CET)

Preliminary Abstract Acceptance: 1 June 2021

Critical Practice Reflection Submission: 30 October 2021

Critical Practice Reflection Acceptance: 15 February 2022

Critical Practice Prototype installed on assigned podium: 5 July 2022 (information will follow)

If you have any questions or ideas regarding the conference, please contact us at chairman@icsa2022.com

Marie Frier Hvejsel and Paulo J.S. Cruz
Chairs of ICOSA2022