



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 organised by the International Association of Structures and Architecture, IASA and will be held at the Politecnico di Milano from 5-9 July 2027.

ICSA2027 comprises research and the latest developments in the field, integrating perspectives across research, practice and teaching. The conference enables the gathering of international participants across continents interested in the recent advances in the art, practice and theory of designing and building (infra)structures in which the structural and architectonic values are consciously combined and mutually enhanced.

Hence, each contribution must explore the relation between Structures and Architecture and must address the overall framing of ICSA2027, 'Circular +'. With this framing ICSA2027 stresses the commitment and responsibility of structures and architecture as drivers of a viable development of the urban landscape that address the pressing global social, economic, and environmental challenges facing us.

The Call for Participation is for contributions in two categories: -

A) Call for Research Papers. Papers can address the Special Sessions and Mini-symposia in the programme or the general conference themes.

B) Call for Critical Practices. In this experimental format, we seek research undertaken in the design practice or in between academia and industry through prototypes.

A. Call for Research Papers

The general call for Research Papers is a full paper of eight-pages. Prospective authors are invited to submit 500-words abstracts addressing the Special Sessions and Mini-Symposia in the programme or one of the General Conference Themes listed below.

In alignment with the conference submission requirements, the process comprises two rounds of peer review. The double-blind review process will be conducted by at least two members of the conference scientific committee and will include elements of curation and editorial guidance. The first review round will evaluate the 500-words abstracts as specified below. In the second round the final submission will be a full paper (eight pages), which will likewise undergo double-blind peer review.

Mini-Symposia

- Digital Pathways for Circular and Sustainable Building Design
- From Additive Manufacturing to Advanced Manufacturing: Scaling up Circular + Innovations
- Adaptation of Least Alteration: Design Principles for Long-term Adaptive Buildings of Lowered Material Use
- Recycled Aggregate Concrete Structures: Design and Life Cycle Analysis
- Laminated Wood Structures: Perspectives, Developments, Potentials
- The world of Gridshells

Special Sessions

- The Detail as the Convergence of Structure and Architecture: History, Theory, and Articulation
- Architectures and Structures of Planetary Alliances: Common grounds for Collective Forms of Inhabitation.
- Conceptual Structural Design with Reused Components
- Crafting Circular Futures: Making-Based Design Pedagogies
- Bamboo Futures: Bio-Based Innovation and Circular Strategies for the Built Environment
- Intelligent Construction: Embodied AI for Adaptive & Circular Design
- Material Literacy for Circular Construction: Teaching Resource Pathways, Values, and Agency
- Circular Assemblages: Reframing Circular Reuse as a Cultural and Aesthetic Practice
- New Philosophies of Structures for Material Circularity
- New paradigm in structural Steel Design embracing reuse and circularity
- Waste-Based Additive Manufacturing for Performance Optimization and Architectural Aesthetics
- From Forest to Future: Sustainability in Timber Architecture and Construction Beyond Circularity
- Concrete Reuse+
- Stone structures: investigations on natural stone as a load-bearing material in contemporary design practice
- Designing Curricula
- Adaptive Envelope Systems: Façades as Structural, Environmental, and Circular Interfaces
- Naturally Grown Timber: From Irregular Resource to Construction Expression
- Rethinking Formworks for Material Efficient Concrete Structures
- Closing the Loop: Context-aware robotic agency in robotic material structural systems
- Experimental Functioning and Regenerative Structures
- Rethink Wood: Resources, uses and potentials in a changing world
- Circularity & Caring Sensibilities: Shaping design processes that are both responsible and responsive
- Life-Cycle and Sustainability of Structures and Infrastructure Systems
- Integration of LCA and circularity in the design and construction of buildings
- Combining geometrical modelling with structural analysis for curved masonry structures
- Grounding flows: from the building to the city and back again
- The Circularity+ of Ageing: Buildings and People
- Umbau as Circular Structure: Adaptive Reuse between Typology and Affordance
- Thin Shells: Geometry, Structure, and Architectural Design
- Nature-Inspired Pathways to Circular Architecture and Structures
- Designing in the Open: Knowledge Infrastructures for Sustainable Futures
- Evolving methods for an evolving society: Prospective LCA for decarbonisation strategies
- Circular hybrids for low-carbon buildings. Multi-stream material reuse in the re-design of structures and envelopes
- From Data to Prototype: Environmental Devices for Urban Futures

- Nature-Based Solutions and Materials for the Circular City
- Waste-Based Biocomposites for a Circular Built Environment
- Pop-up Structures for Culture. Contemporary Construction History between Technological Innovation, Architectural Language and Sustainability
- Sustainable Construction: Low-carbon cementitious composites for Structural and retrofitting purposes
- Energy Transition in the Built Environment: From Vision to Urban Practice
- Reclaiming the Unfinished - Architectural Design and Structural Strategies for Circular Reuse

General Conference Themes

- Educating Architects and Structural Engineers
- Urban Structures and Architectures
- Concrete & Masonry Structures
- Systems and components
- Glass structures
- Timber Construction
- Steel & Composite Structures
- Special structures
- Futuristic structures
- Building Envelopes / Facades
- Crossdisciplinary design
- Lightweight and membrane Structures
- Tectonics
- Ecology of structures and architecture
- Tall buildings
- Structures & Landscapes
- Comprehension of complex forms
- Computer and experimental methods
- Natural Materials
- Histories of Structural and Architectural Design
- Adaptability and Life Cycle Design
- Additive Manufacturing

First-Round Submission (Abstracts)

Submission deadline: 30 March 2026

Preliminary Abstract Acceptance: May 2026

For peer review, the following restrictions are in place:

- Text-based submissions are restricted to 500 words including references and could be accompanied by drawings/images.
- The abstract should introduce the challenge and objective of the research, and describe the background/context of the field/topic, the research/design activity and method, and its impact/contribution
- Contributions must be submitted in English
- All submissions are made through ConfTool and an account in ConfTool have to be created before submitting the contribution
- When submitting an abstract, a topic (Mini-Symposium / Special Session / General Conference Theme) has to be chosen. See the full description of all Special Sessions and Mini Symposia at: <https://www.icsa2027.com/programme/mini-symposia-special-sessions/>

Second-Round Submission (Full paper)

Authors of accepted abstracts will be invited to submit

Full Research Paper Submission (eight pages): November 2026

Full Research Paper Acceptance: February 2027

Author instructions for preparation of the full papers, including the copyright transfer form, will be sent to authors in due time. Please consult the conference website for amendments to the deadlines.

Publication

Accepted papers will be collected in the Conference Proceedings that will be published in Open Access.

B. Call for Critical Practices

With this experimental format, we seek research that intersect the theory and practice of structures and architecture undertaken in design practice or in between academia and industry. Critical practices are communicated in a prototype and a video exhibited and presented during the conference. Please check the conference website for the call and the submission procedure. Here only the key dates are indicated:

First-Round Submission (Representational Abstract)

Submission deadline: 15 April 2026

Notification of Acceptance: May 2026

Second-Round Submission (Prototype and Video)

Submission deadline: January 2027

Final Acceptance: March 2027

Exhibition and Publication

Accepted prototypes will be exhibited during the ICSA 2027 conference at the Politecnico di Milano, Campus Leonardo, Trifoglio building. Contributions will be featured in the *Critical Practices* exhibition, and exhibition publication.

Contact:

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