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RESPONSIVE CITIES DESIGN WITH NATURE SYMPOSIUM

**NOVEMBER
11th - 12th
2021**

Responsive Cities is a bi-annual international symposium on the future of cities organized by the Advanced Architecture Group of IAAC.

The 2021 edition focuses on “Design with Nature” and takes place within the framework of the Building Urban Intelligent Living Design Solutions (BUILDs) project, co-funded by the Erasmus+ Programme of the European Union and developed by the Institute for Advanced Architecture of Catalonia - IAAC- (Spain), Université de Lorraine -UL- (France), Vienna University of Economics and Business -WU- (Austria), Ersilia Foundation (Spain), ECONICK (France), Plant-e (Netherlands), City Facilitators -CF- (Denmark), and GreenTech Challenge -GTC- (Denmark).

The Symposium is organised by



In corporation with



THE CALL

The Institute for Advanced Architecture of Catalonia (IAAC) with the Advanced Architecture Group and the BUILD Solutions project partners are launching the **Call for Papers** for Responsive Cities 2021, a global platform to experiment and rethink urban environments in response to today's global challenges.

Despite cities having strengthened their economy, efficiency, and liveability over the last decades, they are still facing major issues such as contamination, rising inequities, and unemployment, among others. These already harmful conditions for the environment and society are furthermore aggravated by crisis events such as the current pandemic. New planning paradigms that recognize the importance of ecology to respond to these challenges are being developed, by integrating **living systems** in urban environments aimed at improving cities' socio-economic and environmental conditions.

Living systems integrated in cities are also known as **Nature-Based Solutions (NBS)**, defined as *"living solutions inspired by, continuously supported by, and using nature, which are designed to address various societal challenges in a resource efficient and adaptable manner and to provide simultaneously economic, social, and environmental benefits"* (European Commission, 2015). NBS can help address several challenges

through the provision of multiple ecosystem services such as life support (soil formation and oxygen production); procurement (production of food, drinking water, raw materials or fuel); regulation (climate control and tidal waves, water purification, pollination); and cultural values, including the aesthetic, educational, and recreational values. Intelligent design strategies can help reintegrate nature in cities by transforming urban spaces into liveable, productive, and biodiverse systems.

Advances in digital technologies open new opportunities to facilitate the integration of NBS in the urban environment and to increase the number and the quality of the ecosystem services provided. Digital technologies, for instance, such as simulation tools, open the possibility to test in a virtual environment how the system performs, while digital fabrication allows for the production of non-standardized elements (like green facades, floor tiles, public space furnitures, etc) for a tailored integration of nature in cities. The convergence among biology, ecological sciences and information technology applied to landscape and urban design can create powerful synergies to address the current socio-economic-environmental challenges.



This Call aims to boost the reflection on how the integration of NBS in cities through technologies can generate innovative visions, methodologies, and solutions.

- Can the use of technologies support NBS integration in cities with the final goal to enhance the provision of ecosystem services?
- How can we strengthen social relations through the implementation of innovative NBS?
- Will the technology-mediated implementation of NBS in cities lead to the development of innovative business models targeted at addressing current urban challenges?

The Responsive Cities Symposium: Design with Nature is organized around the following topics:

DESIGN – Bio-design | environmental feedback | collective intelligence

BUILD – reintegrating nature | digital fabrication | new bio-inspired planning paradigms

ADAPT – nature-based solutions | biotechnology | black ecologies

PERFORM – living systems | increased liveability | ecosystem services

SHARE – participatory design | novel virtual environments for co-design | symbiosis

LEARN – new educational models | applied research | making



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THE DETAILS

DEADLINES

- Extended Abstract Submission: **30th September 2021**
- Selection of participants: **8th October 2021**
- Deadline for full paper: **31st October 2021**
- Symposium dates: **11th-12th November 2021**

LANGUAGE

The proposals must without exception be drafted in English.

HOW TO APPLY

Papers

The paper submission will take place in two stages. The first stage will include a submission of an extended abstract that will be subject to a blind peer review process. Those abstracts selected will be invited to submit the final paper as part of the second stage and will receive the submission details.

Extended Abstracts Details

Extended abstracts should have 1000 to 1500 words. They should include the following information: title, abstract, keywords, session that best fits into (design/ perform/build/ adapt/share/learn), main text (introduction, methodology, findings/conclusions) and references. Extended abstracts can also contain figures, tables, and/or images, which are not included in the word count. Author/s and affiliation should not be included in the extended abstract submission, as they will be subject to a blind peer review process.

Please use the template provided on the website: <https://responsivecities2021.iaac.net/>

Please upload your extended abstract as a single Word (.doc or .docx) and .pdf document by 19th September 2021 through the following link: <https://apply.iaac.net/applications/view.php?id=131034>

Copyright: all parts of the submitted material (including text and photographs), must be either authored by the person/people submitting, or must have the rights to use and publish them.

SELECTED ENTRIES

Extended abstracts will undergo blind peer reviews and those accepted will be invited to submit a paper. Submission of extended abstracts implies the author's agreement to publish the extended abstracts and paper in the conference proceedings publication, including the website.

All contributions will be collected in a digital publication with an ISBN code.

FEES

Senior 350,00 € / Junior 200,00 € (VAT included)

Note: over 40 are considered Senior (details on payment method will be given to all selected authors) The fee also includes the participation to the social dinner for one person.

ORGANISATION

General chair: Areti Markopoulou

Program chairs: Chiara Farinea and Mathilde Marengo

Symposium coordination: Fiona Demeur

DETAILED INFORMATION AND CONTACT

Please check our website regularly <https://responsivecities2021.iaac.net/> for all the detailed and updated information on this Call.

If you have any specific question about this Call, do not hesitate to contact us at euprojects@iaac.net

JURY

The jury will be announced shortly on our website.