

Nexus Conference 2023 Turin

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Roberta Spallone¹

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Abstract

Nexus Network Journal guest editor Roberta Spallone introduces the conference papers in the special issue dedicated to the Nexus Conference 2023 in Turin.

In this edition of “Nexus: Relationships Between Architecture and Mathematics”, it is my honour to chair the conference alongside Kim Williams, who was the creator and founder of this event. It is therefore with great satisfaction that I introduce this supplementary issue of the *Nexus Network Journal*, containing the proposals selected for presentation and discussion, following the call for proposals that precedes each conference.

The conference takes on special significance that prevented Nexus 2020 from being held in Kaiserlautern and then required it to take place online in July 2021, which allows scholars and younger researchers to engage in exchanges that can fuel scientific research for future research.

This year’s meeting takes place in Torino, hosted by the Dipartimento di Architettura e Design (DAD) of the Politecnico di Torino, located in the Castello del Valentino (Unesco Heritage).

This fourteenth edition continues the research that began with the first ¹Nexus conference.

The conference series entitled “Nexus: Relationships between Architecture and Mathematics” began with the first conference.

¹ For a full history of the Nexus conferences, see Spallone, R. (2017). Nexus: Relationships between Architecture and Mathematics. *The Mathematics of Architecture*, 39(2), (2017): 85–95.

✉ Roberta Spallone
roberta.spallone@polito.it

¹ Torino, Italy

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Many thanks to the members of the Scientific Committee for their valuable time to review and comment on the conference papers, the Coordination Committee for patronizing the event, and the-scenes efforts.

Finally, I would like to warmly thank their research papers; without them, no

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Roberta Spallone architect and Ph.D. in "Drawing and Survey" at the Politecnico di Torino, Department of Architecture and Design (DAD). She is a member of the School of Architecture, and currently teaches in the Laboratory of Drawing and Survey and Digital Techniques of Representation. She is on the Board of the Doctorate of Architectural and Landscape Heritage and has been the director of the excellence Ph.D. course "Complex vaulted systems: geometry, design, construction". Her research focusses on the fields of architectural design, with particular attention to classic treatises on architectural analysis and reconstructive modeling, and, recently, the interweavings between representation, artificial intelligence and augmented reality. Guest editor of *Journal of Architecture*, 22, no. 4 (2020) "Complex Vaulted Systems: Geometry and Design". She is the author of over 220 publications, including both monographs and articles, and has participated as a speaker in many international conferences, including the Nexus Conference 2023.