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## Valeria Croce – Short CV

Engineer and Architect, with a Ph.D. in Civil and Environmental Engineering (Universities of Pisa and Florence) and in Sciences des Métiers de l'Ingénieur (Arts et Métiers ParisTech, Aix-en-Provence), Valeria Croce currently works as Enseignante-Chercheuse (Professor) at the Arts et Métiers Institute of Technology, in Aix-en-Provence. She is a member of the Physical and Digital Systems Engineering Laboratory (LISPEN).

Research activity focuses primarily on the intersection between civil and industrial engineering and digital modeling, implementing innovative approaches applied to design, drafting, historic architectural heritage, and built heritage in general, as well as production systems. Research interests revolve mainly around architectural and urban surveying for analysis and interpretation, with an interdisciplinary and methodological focus on 3D digital surveying and representation.

Her work addresses the issues of interpreting survey data using more automatic tools based on Artificial Intelligence for the supervised recognition of architectural components and deteriorating conditions, as well as for the characterization of visual and geometric aspects of architectural surfaces; the use of H-BIM platforms and the management of Scan-to-BIM processes; the semantic structuring of architectural representations through web-based and collaborative applications; the application of survey tools for pre- and post-disaster investigations, with reference to territories at high seismic risk.

**Valeria CROCE**

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