

Francesco Livio Rossini

SUMMARY

Ph.D. in “Engineering-based Architecture”, Sapienza - University of Rome;
Post-Doc in “Building Construction Management”, Sapienza - University of Rome
Adjunct Professor in “*Construction Site Organization*”, Sapienza - University of Rome ;
Licensed Architect skilled in BIM, Project Management, Complex Construction, Health & Safety management, Technical Architecture.

PROFESSIONAL EXPERIENCE (SELECTION / SUMMARY)

2021 **Project Construction Manager / H&S management**

Vatican City State, Dicasterium Pro Communicatione

- Feasibility study for construction of a “Master Control Room” in a Heritage context – Pope Leo XIII building.
- H&S manager, construction site manager;

Technical domain: complex technical systems, Heritage, complex construction processes.

from 2015 **Project Construction Manager / Responsible of works**

Rome Cavalieri Waldorf Astoria, 101, Cadlolo street, Rome - Italy

- Strategic consultant for LBM application in an operative HoReCa facility;
- H&S coordinator;
- Project Construction Manager, H&S manager.

Technical domain: HoReCa, complex facilities management.

From 2014 **BIM construction specialist, H&S Manager**

Squared Colosseum - FENDI Headquarters, Quadrato della Concordia, Rome - Italy

- BIM specialist for site management and scientific research on the use case;
- H&S management;
- Structural and Work’s director consultant

Technical domain: HBIM, offices, complex construction sites.

PROFESSIONAL EXPERIENCE (SELECTION / SUMMARY)

From 2018 **Lecturer in Construction Site Management, Post-Doc researcher**

Lecturer in “Technical Architecture” and “Construction Site Management” at DICEA department, Sapienza – University of Rome;

From 2016 to 2018 **Teacher of Construction Management applications: BIM Master courses**

Master course organised by “A-Sapiens” in collaboration with MEMOTEF department, faculty of Economics, Sapienza – University of Rome

from 2017 to 2018 **BIM private courses**

CEFME-CTP of Rome and Province.

- Organisation of teachers’ tem and course scheduling;
- Lectures and practices on BIM projects;
- Organisation of recurring tests;

PERSONAL SKILLS

Mother tongue Italian

COMPREHENISON

English	LISTENING		SPEAKING		WRITING
	Listening	Reading	Interaction	Public Speaking	
	C1	C1	C1	B2	B2
French	LISTENING		SPEAKING		WRITING
	B2	B2	B1	B1	B1

PUBLICATIONS (SELECTION)

- Novembri, G., Rossini, F.L., Fioravanti, A. (2020) Introduction to Proactive Design. Toward the implementation of BIM methodology for managing complexity in architectural projects, in Sustainability and Automation in Smart Constructions, in Advances in Science, Technology & Innovation, p.11-13, ISSN 2522-8714.
- Novembri, G., Rossini, F.L. (2020) Swarm building information modeling. An hybrid agents-actor framework to improve design support systems capabilities, in Electronic Journal of Information Technology in Construction, ISSN 1403-6835.
- Di Ciaccio, D., Rossini, F.L., Maroder, E. (2020) Dal documento al modello. Approcci innovativi per la gestione digitale della manutenzione, in Dn, p. 117-127, vol. 1 (6) ISSN 2610-8755.
- Ferrante, T., Vettori, M.P., Villani, T., Allegri, D., D'Alessandro, N., Di Donato, S., Ricci, M., Rossini, F.L., Cervini, M., Daprà, F., Trebicka, F., Valencia J. (2020) Vivere alla quota zero, in Progettare in vivo la rigenerazione urbana, Politecnica p. 122-129, Maggioli Editore, ISSN 2240-4392.
- Rossini, F., (2019) Integrazione tra BIM e Agent-Based simulation, in Techné, Vol 9 (18), FU press, p. 282-287, ISSN 2239-0243.
- Di Ciaccio, A., Rossini, F.L., Di Ciaccio, D., Ambrosio, S., (2019) AI applications in the building process, in The human dimension of building energy performance, p. 149-162, ISBN 9788895620633.
- Novembri, G., Rossini, F.L., Fioravanti, A. (2019) Manage the complexity of architectural design through the proactive design paradigm, proceedings of the 2019 EC3
- Novembri, G., Fioravanti, A., Rossini, F. (2018) Improving the integration between BIMs and Agent-Based Simulations. The Swarm Building Modeling – SBM, in eWork and eBusiness in Architecture, Engineering and Construction, proceedings of the 12th European Conference on Product and Process Modelling (ECPPM 2018) p. 123-126, ISBN 9780429506215.
- Fioravanti, A., Novembri, G., Rossini F.L. (2018) A theoretical framework to align lean construction techniques in the 4.0 building industry, in IN BO, p. 184-191, vol. 09 (13) ISSN 2036-1602.
- Rossini, F., (2018) Metodologie progettuali digitali per l’ottimizzazione, il controllo e la gestione dei processi di realizzazione, Tesi per il conferimento del Dottorato di Ricerca in Ingegneria dell’Architettura e dell’Urbanistica, XXX Ciclo, Sapienza – Università di Roma.
- Fioravanti, A., Rossini, F.L., Trento, A., (2018) “Project Rule-Checking for Enhancing Workers Safety in Preserving Heritage Building, in Computational Morphologies. Design Rules Between Organic Models and Responsive Architecture, Rossi, M. and Buratti, G. (Eds.) Springer International Publishing (CH), pp. 71-86, ISBN 978-3-319-60919-5.
- Rossini, F.L., Novembri, G., Fioravanti, A., (2017) “AS&BIM – A Unified Model of Agent Swarm and BIM to Manage the Complexity of the Building Process” in Future Trajectories of Computation in Design, proceedings of the 17th International Conference CAAD Futures, Istanbul, July 12-14, 2017, pp. 321-332, ISBN 978-975-561-482-3.
- Fioravanti, A., Novembri, G., Rossini, F.L., (2017) “Improving Proactive Collaborative Design Through the Integration of BIM and Agent-Based Simulations” in Shock” Sharing of Computable Knowledge! Proceeding of the 35th International Conference on Education and Research in Computer Aided Architectural Design in Europe, 20-22nd September 2017, Rome, pp. 103-108, ISBN 9789491207129.
- Novembri, G., Rossini, F.L., Fioravanti, A., (2017) “Construction time and cost optimization using A.I. and statistical methods, through Bayes point machines” in Re-shaping the construction industry,

Ciribini, A., Alaimo, G., Capone, P., Daniotti, B., Dell'Osso, G., Nicoletta, M. editori, pp. 40-49, ISBN 9788891624864.

- Novembri, G., Rossini, F.L., Fioravanti, A., (2017) "Actor-based modeling design intentions on BIM systems" in Re-shaping the construction industry, Ciribini, A., Alaimo, G., Capone, P., Daniotti, B., Dell'Osso, G., Nicoletta, M. editori, pp. 30- 39, ISBN 9788891624864.
- Novembri, G., Rossini, F.L., Fioravanti, A., (2017) "Ottimizzare i processi edilizi in contesti critici. Valutazioni di fattibilità attraverso l'integrazione di modelli BIM e la simulazione basata su agenti intelligenti" in Colloqui.AT.e 2017. Demolition or Reconstruction? A cura di G. Bernardini, E. Di Giuseppe, EdicomEdizioni, Ancona, p. 1176-1183, ISBN 978-88-96-386-58-3.
- Rossini, F.L., Novembri, G., Fioravanti, (2017) "BIM and Agent-Based model integration for construction management optimization" in 25th Annual Conference of the International Group for Lean Construction (IGLC) in the context of the "Lean & Computing in Construction LC3 2017" 9-12 July, 2017, Heraklion, Crete, Greece.
- Rossini, F.L., Novembri, G., Fioravanti, A., Insola, C., (2016) "Integrating BIM and Agent- Based Modelling for construction operational optimization – A LBS approach" in ECPPM - 16: International Conference in Process and Product Management, Lymassol, Cyprus, September, 9-11, 2016.
- Novembri, G., Rossini, F.L., Fioravanti, A., Insola, C., (2016) "BIM and Multi-Agent Distributed Constraint Optimization" in Back to 4.0. Rethinking the digital construction industry, Ciribini, A., Alaimo, G., Capone, P., Daniotti, B., Dell'Osso, G., Nicoletta, M. editori, pp. 248-258, ISBN 9788891618078.
- Rossini, F.L., Fioravanti, A., Novembri, G., Insola, C. (2016) "Holobuild: process optimization by the introduction of Mixed Reality in construction site" in Back to 4.0. Rethinking the digital construction industry, Ciribini, A., Alaimo, G., Capone, P., Daniotti, B., Dell'Osso, G., Nicoletta, M. editori, pp. 279-288, ISBN 9788891618078.

Conferences

- Rossini, F.L., (2016) "BIM e Realtà Aumentata: tendenze e future applicazioni per interventi sugli edifici esistenti" in 3D modeling & BIM – Applicazioni e possibili futuri sviluppi – a cura di Tommaso Empler, DEI – Tipografia del Genio Civile, Roma, ISBN 978884961931EB
- Fioravanti, A., Novembri, G., Rossini, F.L., (2015) "Geometria qualitativa nel BIMworld. Generazione della Location Breakdown Structure per un processo di costruzione sostenibile" in Sostenibilità ambientale, economia circolare e produzione edilizia. La ricerca scientifica nel Settore delle Costruzioni nell'era delle nuove sfide ambientali e digitali, Alaimo, G., Capone, P., Ciribini, A., Daniotti, B., Dell'Osso, G., Nicoletta, M. editori, pp. 502-521, Maggioli Editore. ISBN 978891612226
- Rossini, F.L., Fioravanti, A., Trento, A., (2015) "Project risk modelling information and management framework: how to enhance risk management framework improving actor mutual understanding using BIM and Augmented Reality Tools", in Real time: extending the reach of computation, XXXIII eCAADe conference, Technische Universität Wien, Vienna (A), 16-18 ottobre, 2015 pp. 577-584. ISBN 9789491207.
- Rossini, F., (2015) "BIM e Realtà aumentata: innovazione di metodi e tecnologie per la gestione dei progetti sull'esistente", in Colloqui.AT.e 2015, Scuola di Ingegneria e Architettura dell'Università di Bologna, Bologna, 26-28 novembre 2015, pp. 226-232.082.
- Trento, A., Fioravanti, A., Rossini, F.L., (2014) "Health and safety design by means of a systemic approach: linking construction entities and activities for hazard prevention", in Fusion, data integration at its best, XXXII eCAADe conference, Northumbria University, Newcastle-upon-Tyne (UK), 10-12 September 2014, pp. 633-642, ISBN 9789491207075.
- Villani, T., Rossini, F., (2014) "Innovazione di processo nell'applicazione del sistema costruttivo X-Lam, La progettazione integrata" in LegnoArchitettura, Vol.16, pp.88-95 ISSN 2039.

Workshops

- *Lux ab Petra*, workshop of the restoration of the "S. Angelo in Asprano, Roccasecca – FR. Organizer and Relator;
- CIAC 2019 International Conference: *relator and chairman*;
- XXXII eCAADe international Conference, Northumbria University, 10-12 September 2018, *participant*;
- Colloqui.A.Te. 2015, 26-28 nov. 2015, *Selected Relator*;
- XXXIII eCAADe international Conference, Wien Technische Un., 16-18 ottobre 2015, *relator*;
- ISTeA international conference, Politecnico di Milano, settembre 2015, *participant*;
- 3D Modeling & BIM workshop, Facoltà di Architettura, Sapienza - Università di Roma, 22 Aprile 2016, *selected relator*;
- ISTeA international conference, Facoltà di Ingegneria, Università "Federico II" di Napoli, luglio 2016, *relator*;

- ECPPM international conference, Lymassol, Cyprus, 9-11 september 2016, *Session Chairman and selected relator*;
- IGLC international conference, Heraklion – GR, 9-12 July 2017. *Selected relator*;
- ISTeA international conference, facoltà di Architettura, Università degli Studi di Firenze, settembre 2017. *Relator*;
- XXXV eCAADe international conference, facoltà di ingegneria civile e industriale, Sapienza – Università di Roma, 20-22 september 2017, *staff manager*;
- Il metodo BIM e le sue potenzialità. Ordine degli Ingegneri di Roma e provincia, 18/05/2017. Argomento: “Il BIM e la gestione del cantiere” *relator*.
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Formia, 28 / May / 2021