

## Special Issue

# Development of Novel Techniques in Information Systems Architecture

### Message from the Guest Editor

This Special Issue explores cutting-edge methodologies and intelligent tools driving innovation in Information Systems, Enterprise, and Software Architecture. As digital ecosystems evolve, emerging technologies such as Artificial Intelligence (AI), blockchain, and formal modeling offer new paradigms for designing, verifying, and optimizing architectural frameworks. Key themes include the application of AI to generate adaptive enterprise and software architectures, enhancing scalability, interoperability, and decision support. Large Language Models (LLMs) are investigated as enablers for the automated creation and refinement of Business Process Model and Notation (BPMN) diagrams, facilitating intelligent process modeling. The integration of Robotic Process Automation (RPA) into architectural design is also examined, with a focus on automation in development, governance, and maintenance. Furthermore, the Special Issue invites studies on embedding blockchain technologies and design patterns within enterprise and software architectures to strengthen transparency, trust, and data integrity.

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### Guest Editor

Dr. Bálint Molnár

Information Systems Department, Faculty of Informatics, Eötvös Loránd University, Budapest, Hungary

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### Deadline for manuscript submissions

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## Applied Sciences

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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

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