

Special Issue

Challenges in Using Machine Learning to Support Software Engineering

Message from the Guest Editors

The next decade will be full of technological advances that will present numerous challenges and opportunities for the software engineering (SE) discipline. The application of artificial-intelligence and machine-learning (AI/ML) techniques to SE has been extensively studied, but many issues and areas of application remain open for investigation. The growing ability of machines to learn and act intelligently will continue to guide the transformation process of the world in which we live. Forbes identifies AI/ML as the leading strategic technology trend for the next decade, and the IDC indicates that, even with the effects of the pandemic being felt globally, growth in this area is expected to continue accelerating during the next quinquennium. There is an urgent need to explore the opportunities created by AI/ML to leverage research in the area of SE, as software and application vendors should continue incorporating AI/ML as a differentiating aspect to increase adoption and deliver benefits to their customers and users, as well as improve return on investment and achieve cost savings.

Guest Editors

Dr. José Carlos Bregieiro Ribeiro

Computer Science and Communications Research Centre, School of Technology and Management, Polytechnic of Leiria, Morro do Lena—Alto do Vieiro, Apartado 4163, 2411-901 Leiria, Portugal

Dr. Rolando Miragaia

Computer Science and Communications Research Centre, School of Technology and Management, Polytechnic of Leiria, Morro do Lena—Alto do Vieiro, Apartado 4163, 2411-901 Leiria, Portugal

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

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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