

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

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