Special Issue

Machine Learning for Software Engineering and Applications

Message from the Guest Editors

In recent years, the integration of machine learning (ML) techniques into software engineering (SE) has transformed how we develop, maintain, and optimize software systems. From code generation and bug detection to enhancing software quality and reliability, ML is addressing some of the most persistent challenges in software engineering. This Special Issue aims to showcase the latest research, methodologies, and case studies at the intersection of ML and SE. This collection of papers highlights the potential of ML to revolutionize software engineering processes while also addressing the complexities and limitations inherent in deploying ML models within real-world software systems. One of the critical themes explored in this issue is the application of ML for improving software quality and reliability. Another significant focus of this Special Issue is the operationalization of ML models in software applications—often referred to as MLOps. Furthermore, this issue explores the synergy between ML and SE in emerging areas such as automated software development, where ML algorithms assist in code synthesis, optimization, and refactoring.

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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