Special Issue

AI-Augmented Software Engineering

Message from the Guest Editor

Significant improvements in many areas of the software development lifecycle have been made based on advancements in machine learning (ML) research for software engineering (SE). Automated code generation is notable where ML models are trained on sizable code repositories to generate code snippets, assisting developers in producing software quickly. The use of ML techniques for bug detection and prediction allows the early detection of potential software flaws. As developers choose the best libraries, frameworks, and design patterns for a project, ML-powered recommendation systems have gained popularity. These recent developments hold the promise of accelerating software development, enhancing code quality, and encouraging innovation in the area of SE as the symbiotic relationship between machine learning and software engineering continues to develop.

Guest Editor

Prof. Dr. Hongji Yang

School of Computing and Mathematic Sciences, University of Leicester, Leicester, UK

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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