Advances in Artificial Intelligence Engineering

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Message from the Guest Editors

Dear Colleagues,

This special issue is aimed at addressing issues the opportunities and challenges derived by integration of AI and SE (Software Engineering) for both AI-guided SE and SE for AI. This includes (but not limited to):

- AI planning applied to SE development process;
- Self-adapting code generators;
- AI-based code analyzers for detecting code smells and anti-patterns;
- Using ML of models, meta-models, and model transformation through search-based approaches in model-based software engineering (MBSE);
- AI-based assistants such as bots for SE tools;
- AI assistants for human-in-the loop modeling such as conversational virtual assistants for dialog-based optimization of SE tasks;
- AI support for various stages of SE development process;
- AI-based and automated natural language processing (NLP)
- Application of AI in semantic reasoning platforms;
- Code recommendation engines;
- ML-based automated code review and assessing the risk of a code change;
- AI techniques for data, process and model mining and categorization;
- Case studies of applications of AI/ML in SE and vice versa.

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Special Issue

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Message from the Editor-in-Chief

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