Special Issue

Artificial Intelligence Technologies for Software Safety

Message from the Guest Editor

New applications of Artificial Intelligence (AI) across many safety-critical industrial and societal domains bring safety concerns. In order to achieve the safety and therefore trustworthiness of these AI applications, we need to identify safety risks and develop novel techniques for mitigating these risks. AI can be a powerful tool to that end. The purpose of this Special Issue is to present advancements in the area of AI for improving software safety. Topics of interest include, but are not limited to, the following:

- AI techniques for identifying safety hazards along the software engineering development cycle.
- AI techniques for mitigating safety hazards along the software engineering development cycle.
- AI techniques for software verification and validation targeting safety concerns.
- Empirically validated studies of applying AI for improving software safety.
- Systematic reviews of the state-of-the-art and state of practice in applying AI for improving software safety.

Guest Editor

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Message from the Editor-in-Chief

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

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