



## Software Verification and Validation for Embedded Systems

Guest Editor:

**Prof. Dr. Byoungju Choi**

Department of Computer Science  
and Engineering, EWHA Womans  
University, Seoul 03760, Korea

Deadline for manuscript  
submissions:

**closed (10 January 2021)**

### Message from the Guest Editor

Dear Colleagues,

Verification evaluates intermediary products, such as requirement specification, architectural design, models, or software code, thus ensuring that they comply with previously established requirements for correctness, completeness, and consistency.

Embedded systems are electronically controlled devices where software and hardware are tightly coupled. Embedded systems often have unique characteristics that should be reflected in the verification and validation (V&V) plan. In this Special Issue, we are particularly interested in V&V at the software level for embedded systems.

- Methodologies for verification and validation of embedded software
- Techniques for testing of embedded software
- Tools and environment for automated and semi-automated embedded software testing
- Model-based testing
- Software test requirements and architecture
- Static vs. dynamic testing
- Performance, robustness, usability and security testing
- Software fault injection
- Embedded real time software testing and runtime error handling
- Fault localization and debugging
- Empirical studies and experience reports





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)