

Special Issue

Digital Twinning: Trends Challenging the Future

Message from the Guest Editors

Digital twinning has matured thanks to its profound proliferation across diverse human activity domains. Therefore, we believe contemporary digital and virtual twinning trends will challenge the future more than the future will challenge them. It is not about how the future will streamline digital twinning but how digital twinning will transform the future. Specific topics of interest include, but are not limited to, the following:

- Machine learning and artificial intelligence empowering;
- Human digital twins;
- Digital twinning-integrated development environments and DevOps;
- Digital twin software;
- Hyper-asset twinning (system-of-systems, cyber-physical systems; socio-technology systems);
- Modeling and simulations, fidelity and synchronization challenges, complexity reduction, network digital twins, digital twin definition language;
- Repository management, smart data protection, security and privacy;
- Standardization, services, and interoperability issues;
- Real-time decision making through edge computing (automotive, robotics, metaverse, agent-based).

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2025)



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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 guestedited by leading experts in selected topics of interest.

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