



## Medical Devices and Implants, 2nd Edition

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Deadline for manuscript submissions:

**closed (31 October 2025)**

### Message from the Guest Editors

We invite contributions to a Special Issue of Bioengineering focused on the design, prototyping, manufacturing, and experimentation of medical devices and implants. Considering the increased demand for these devices and thus increased healthcare costs, the clinical deployment of these solutions results in many challenges that need to be overcome. Embedded artificial intelligence in diagnostic tools, big-data-driven design processes, wireless communications for real-time monitoring, and finite element modeling for verification and validation are all examples of novel but now well-established technologies that have positively impacted product development. Further, the widespread use of additive manufacturing has boosted patient-specific design and implant development. More recently, bioprinting has been used in medicine to help to study or recreate almost every tissue and organ in the body. Therefore, this Special Issue aims to collect studies performed on medical devices and implants, strictly related to their development, prototyping, efficacy, and safety. Discussions and critical analyses of existing testing methods and standards are welcome.





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## Message from the Editor-in-Chief

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