



## Materials and Modelling of Implantable Biomedical Devices

Guest Editors:

**Dr. José António Simões**

ESAD – College of Art and Design,  
Avenida Calouste Gulbenkian,  
4460-268 Senhora da Hora,  
Matosinhos, Porto, Portugal

**Dr. António Ramos**

Department of Mechanical  
Engineering, University of Aveiro,  
3810-193 Aveiro, Portugal

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### Message from the Guest Editors

The study and modeling of implantable devices imply more complex analysis considerations than others referring to other types of conventional engineering systems. In fact, placing an implant in contact with living tissue through an interface introduces some unpredictability in its biomechanical and biological behavior. Although there have been significant scientific advances in the study of implantable systems, several problems continue to be recorded, especially those related to fixation, which is important in load transfer mechanisms because they precede their early failure. Thus, the design, materials and new emerging technologies that can be applied in the development of implantable biosystems must be modeled and studied, aiming for better and more adequate surgical procedures. There is potential in the development of new concepts, including artificial intelligence, which will allow, in the near future, to have intelligent implantable systems.

As guest editors, we propose that you submit your research concerning the analysis of biomaterials and numerical and experimental modeling of implantable biomedical systems.





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### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

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Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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