

Special Issue

Advanced Technologies for Digital Dentistry and Oral and Maxillofacial Reconstruction

Message from the Guest Editors

Digital transformation is reshaping oral healthcare from preventive and restorative dentistry to complex oral and maxillofacial reconstruction using cutting-edge methodologies. Innovations like high-resolution imaging, digital workflow integration, AI, 3D modeling, additive manufacturing, customized biomaterials, surgical navigation, and virtual planning create new possibilities for precision medicine and personalized rehabilitation. This Special Issue seeks high-quality contributions on advanced technologies supporting diagnosis, planning, fabrication, surgery, and outcome assessment in digital dentistry and oral and maxillofacial reconstruction. Relevant themes include CAD/CAM systems, 3D data acquisition, implant planning, customized devices, biomechanical modeling, smart materials, bioprinting, and AI-assisted decision support. Studies evaluating clinical efficacy, workflow optimization, long-term performance, and implementation challenges are encouraged. The goal is to provide a comprehensive platform for interdisciplinary research bridging engineering and clinical science to advance precise, efficient, and individualized oral and maxillofacial care.

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About the Journal

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.

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