

Special Issue

Three-Dimensional (3D) Techniques in Dentistry

Message from the Guest Editor

The introduction of three-dimensional (3D) technologies has completely transformed the field of dentistry, providing enhanced accuracy, productivity, and patient outcomes. These advancements involve a range of technologies, such as 3D imaging, 3D printing, and computer-aided design/computer-aided manufacturing (CAD/CAM), each of which plays a distinct role in different areas of dental care. Three-dimensional imaging, including cone-beam computed tomography (CBCT), outperforms conventional two-dimensional radiography in providing reliable assistance in implantology and orthodontics for evaluating bone density, detecting pathologies, and predicting treatment outcomes. The capability to print surgical guides for implantology guarantees accurate positioning, decreasing surgery duration and enhancing results. The CAD/CAM system integrates with 3D imaging and printing, offering a seamless workflow from diagnosis to treatment. This Special Issue aims to explore the revolutionary influence of 3D techniques, providing insights into the current state and potential future of dentistry.

Guest Editor

Dr. Fabiana Nicita

Department of Biomedical and Dental Sciences and Morphofunctional Imaging, Division of Medical Biotechnologies and Preventive Medicine, University of Messina, 98125 Messina, Italy

Deadline for manuscript submissions

closed (20 September 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/211916

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/

[applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)