

Special Issue

Digital Dental Technology in Orthodontics

Message from the Guest Editor

Dentistry is entering a new era driven by artificial intelligence (AI) and machine learning (ML), transforming diagnostics, decision-making, personalized care, and workflow efficiency. This Special Issue welcomes original research and reviews on innovative AI/ML applications across dental disciplines, focusing on real-world integration, clinical impact, and ethical or technical challenges in advancing intelligent oral healthcare. **Topics are not limited to:**

- Deep learning and computer vision in dental imaging
- Predictive models for disease progression and outcomes
- Automated cephalometric analysis and landmark detection
- AI decision support in orthodontics, implantology, etc.
- AI in digital workflows: intraoral scanning to CAD-CAM
- NLP applications in dental practice
- Clinical validation and interpretability of AI models
- Ethical, legal, and regulatory issues in dental AI
- AI in tele-dentistry and remote monitoring

Join us in shaping the future of intelligent oral healthcare!

Guest Editor

Prof. Dr. Rosalia Maria Leonardi

Department of General Surgery and Surgical-Medical Specialties,
School of Dentistry, University of Catania, Catania, Italy

Deadline for manuscript submissions

closed (20 November 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/240161

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)