

Special Issue

Recent Breakthroughs in Orthodontic Treatment

Message from the Guest Editors

Orthodontics has undergone a profound transformation in recent decades, largely driven by technological innovation. Intraoral scanners, CAD/CAM workflows, and three-dimensional printing have enabled highly precise and individualized treatment approaches. Advanced digital planning software allows clinicians to simulate tooth movements, assess treatment predictability, and strengthen communication with patients. Artificial intelligence represents an emerging frontier, with applications in diagnostics, cephalometric analysis, and treatment prediction, thereby supporting an increasingly precise and evidence-based decision-making process. At the same time, temporary anchorage devices (TADs) and new therapeutic strategies for patients have broadened treatment options and improved the management of complex clinical scenarios. These advances emphasize the importance of a multidisciplinary approach that integrates technology with comprehensive oral health care to optimize long-term outcomes. This Special Issue invites the submission of original research and reviews focused on digital innovation, artificial intelligence, and biomaterials that are shaping the future of orthodontics.

Guest Editors

Dr. Saverio Cosola

Department of Stomatology, Tuscan Stomatologic Institute, Foundation for Dental Clinic, Research and Continuing Education, 55041 Camaiore, Italy

Dr. Michela Boccuzzi

Istituto Stomatologico Italiano, Via Pace 21, 20122 Milano, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Edgaras Stankevičius
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