Special Issue

Digital Dentistry: Computer-Aid Diagnosis and Treatment

Message from the Guest Editors

The advent of digital technologies in dentistry has led to shorter treatment times and higher predictability of treatment outcomes. Among the most important technologies used in digital workflows in dentistry is computer-aided design and computer-aided manufacturing (CAD-CAM). Scientific evidence has been consecutively presented, showing the usefulness of three-dimensional (3D) images not only for diagnosis but also for treatment planning. Current cone beam computed tomography (CBCT) scanners can offer higher contrast and spatial resolution for bone images, as well as lower radiation doses than before. Similarly, intraoral scanners have been validated to perform digital impressions, which can replace the conventional impressions usually performed with a series of impression materials. The integration of these 3D images enables the creation of a virtual patient, enhancing the multidisciplinary treatment plan.

Guest Editors

Dr. Arthur R. G. Cortes

Prof. Dr. Claudio Costa

Prof. Dr. Guillermo Pradies

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

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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

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