

Digital Dentistry Society Global Congress 2025

Dentistry between artificial intelligence, mixed reality & robotics

The Digital Dentistry Society Global Congress 2025 will be held from 16 to 18 October at the historic Palazzo del Cinema in Venice. This event represents the largest gathering of the Digital Dentistry Society (DDS), the foremost international scientific organisation devoted entirely to the evolving and interdisciplinary realm of digital dentistry.

Joint meeting

In a significant collaboration, the DDS Congress will be jointly hosted with the International Association of DentoMaxillo-Facial Radiology (IADMFR), an organisation established in 1968 that continues to champion the development and global representation of dentomaxillofacial radiology.

Under the theme "Dentistry Between Artificial Intelligence, Mixed Reality and Robotics," the congress will explore the transformative impact of cutting-edge technologies on contemporary dental science. The programme offers valuable insights into how emerging digital tools are shaping clinical workflows, enhancing diagnostic precision, and advancing treatment outcomes.

The congress promises an exceptional blend of professional development, networking opportunities, and cultural experiences. Venice, with its timeless canals, gondolas, and architectural splendors immortalised by historical figures such as Goethe during his 18th-century Italian journey, remains a captivating destination that continues to inspire visitors worldwide. The city's rich artistic and cultural heritage provides a fitting backdrop for this international scientific meeting.

60+ experts from 20+ countries

Throughout the three days, expert speakers and session chairs will share knowledge and innovations. On the first day, the Innovation Forum will showcase interdisciplinary approaches to rehabilitation, focusing on digital tools for predictable ortho-restorative workflows, advancements in vertical ridge augmentation using digital strategies, and the enhancement of vision in dental practice.

Special workshops dedicated to dental assistants emphasize the vital role of the entire dental team in the modern digital workflow. These sessions provide comprehensive training on the use of intra-oral scanners, an indispensable device in today's diagnostic and treatment planning processes, including discussions on technical features of leading scanners and effective digital communication with dental laboratories, patients, and clinicians.

The second day's focus on artificial intelligence, mixed reality, and robotics highlights the integration of AI-based treatment planning, dynamic navigation through mixed reality for implant placement, and the advent of autonomous dental robotic systems that promise unprecedented

precision and reliability across a range of implant therapies.

Concluding the congress, the third day revisits key advances in digital dentistry, addressing challenges such as emergence profile management with specially coded abutments to ensure tissue stability, the evolving synergy between smile design and laboratory collaboration, and the expanding role of 3D printing technologies, encompassing material selection and clinical applications.

Additionally, a dedicated session for dental hygienists explores the revolutionary impact of digital technologies on education and practice. Topics include the evolving role of the dental hygienist in the digital era and strategies for managing the ongoing transformation within the profession.

The congress unites global expertise to explore digital dentistry's future, blending innovation and tradition in the inspiring setting of Venice.

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