

# ICCAS SESSION at CARS 2015

June 27 2015, 1-2 pm

Hotel NH Collection Barcelona Constanza,  
Barcelona (Spain), Room Berlin



In this session, the Innovation Center Computer Assisted Surgery (ICCAS) will present advances in research for the digital operating room of the future.

TIME	TOPICS - CARS SESSION	SPEAKERS
13.00 pm	<b>Introduction</b>	Andreas Melzer, MD, DDS - ICCAS
13.10	<b>Clinical Case: Laryngeal Carcinoma</b> In ENT surgery, the treatment of carcinomas in this delicate anatomical region is often very difficult. A particular case presented here is a laryngeal carcinoma and the existing utilization of computer assisted technologies to improve both procedure and out-come.	Andreas Dietz, MD - Leipzig University Hospital
13.20	<b>Future Case: MRgFUS</b> MRI-guided focused ultrasound surgery can be considered a fully closed-loop computerized surgical procedure to remove tumor tissue via focused ultrasound ablation. The current results from the EU-funded projects TRANS-FUSIMO and FUTURA will be presented. A future research field of ICCAS will include MRI-guided focused ultrasound under PET/MRI guidance.	Andreas Melzer, MD, DDS - ICCAS
13.30	<b>Digital Patient Modeling: Latest Findings and Perspectives</b> Model-based decision support addresses problems of information integration, data interpretation and the reproducibility of decision-making. In this session, the latest research findings and future visions of digital patient modelling paving the way for model-based decision support will be presented along with the potential for future implementation in clinical practice.	Kerstin Denecke, PhD - ICCAS
13.45	<b>Surgical Workflow Management Systems: Gentle and Effective Surgical Support</b> Workflow-based automation in the OR gently and effectively supports the surgical team by orchestrating OR technologies. The presentation will introduce examples of workflow-supported surgery and demonstrate visions for future applications.	Thomas Neumuth, PhD - ICCAS

These and further topics will be addressed in more detail during the 2nd Digital Operating Room Summer School (DORS 2015), taking place in August 24 - 28 2015 in Leipzig/Germany. more information: [www.iccas.de/dors](http://www.iccas.de/dors)