

CONTACT

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CONGRESS ORGANIZATION

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TEXT / LAYOUT

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CLINICAL TALKS / HANDS-ON EXERCISES

Senior clinical researchers and surgeons will present their view on medical technologies and state of the art research conducted by engineers. Examples of wins and fails of surgical technologies will be introduced and the success criteria discussed. Each clinical talk will be enhanced with intriguing clinical hands-on exercises.

Clinical topics

cardiovascular surgery, ear-, nose- and throat surgery, neurosurgery, cranio-maxillofacial surgery, interventional surgery

SITE VISITS

To experience new technologies in practice the summer school participants will have the opportunity to join guided visits through advanced surgical suites. Additionally, a visit to the faculty's anatomy lab will complement the clinical courses with anatomical knowledge, especially for technical participants.

TECHNICAL TALKS / HANDS-ON EXERCISES

Since new technologies have been continuously emerging in operating rooms, a strong guidance of their alignment with clinical processes and OR infrastructures is required. To emphasize this topic, senior technical experts will introduce recent concepts related to patient models as well as operating room processes and infrastructures.

Technical topics

image-guided interventions, process and workflow management in the OR, digital patient models, OR-infrastructure.

CME CERTIFICATION

DORS has been certified by the national authority »Sächsische Landesärztekammer« with 63 CME credits.

DORS 2015 has been certified by the international authority EACCME® with 29 CME credits.

APPLICATION

Deadline: 31.07.2015
Online Registration and further information:
www.iccas.de/dors

REQUIREMENTS FOR PARTICIPATION

- » M.Sc. students, Ph.D. students, medical students
- » postdoctoral fellows
- » young and senior researchers in science or industry
- » academics and industrial professionals

from the fields of medicine, informatics, engineering.

COSTS

| TYPE | EARLY-BIRD | REGULAR | ONSITE |
|------------------------|------------|----------|-----------|
| M.Sc. and PHD Students | Euro 600 | Euro 700 | Euro 900 |
| Academic Positions | Euro 700 | Euro 800 | Euro 1000 |
| Other Participants | Euro 800 | Euro 900 | Euro 1100 |

(all prices include VAT, lunch, coffee breaks and working materials)

UNIVERSITÄT LEIPZIG

Faculty of Medicine

DORS

2ND DIGITAL OPERATING ROOM
SUMMER SCHOOL

24. – 28.08.2015
LEIPZIG, GERMANY



iccas

MESSAGE FROM THE SCIENTIFIC COMMITTEE

This year, ICCAS is reflecting on a decade of intensive research at the interface between surgery and information technology. Pioneering collaboration among computer scientists, engineers and clinicians has brought forth a wide range of new developments which streamline workflows and enhance the results of operations and interventions. The 2nd DORS is an opportunity to share our long-standing experience and examine the need for further research in computer assisted surgery. Participants can look forward to contributions by clinical, technical and medical IT experts, site visits and application-based workshops. Tuition by experts working in partnership with participants will include both intensive practical exercises and individual support.

We look forward to welcoming you in Leipzig!



Prof. Thomas Neumuth

Scientific Director Model-based Automation and Integration, ICCAS



Dr. Kerstin Denecke

Scientific Director Digital Patient- and Process Model, ICCAS

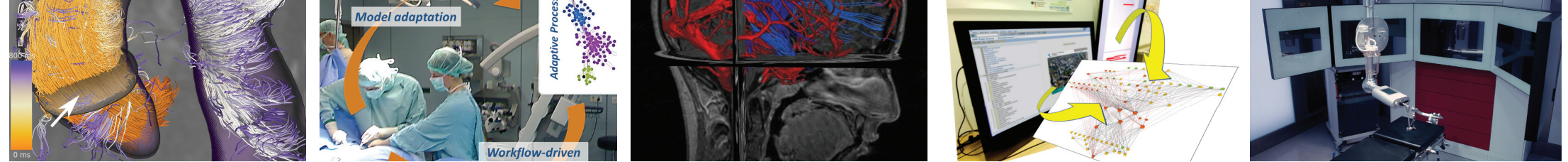


Prof. Andreas Melzer

Executive Director ICCAS

Join DORS and benefit from:

- » advanced research lectures involving practical applications
- » hands-on exercises with individual support
- » visits of advanced hybrid OR's and interventional suites



| MONDAY 24.08.2015 | TUESDAY 25.08.2015 | WEDNESDAY 26.08.2015 | THURSDAY 27.08.2015 | FRIDAY 28.08.2015 |
|--|---|---|---|---|
| <p>9.00 – 9.30 REGISTRATION</p> <p>9.30 – 10.00 WELCOME</p> <p>10.00 – 12.00 Presentation of Participant's Work Topics</p> <p>Thomas Neumuth, PhD, ICCAS Kerstin Denecke, PhD, ICCAS Andreas Melzer, MD, DDS, ICCAS</p> | <p>9.00 – 12.30 EVENT 2: TALKS Processes and Workflow Management in Surgery and Image Guided Interventions</p> <p>» Workflow Modeling » Workflow Analysis » Workflow Management</p> <p>Thomas Neumuth, PhD, ICCAS Fabiola Fernández Guitérrez, PhD, Swansea University, UK Stefan Franke, ICCAS</p> | <p>9.00 – 11.30 EVENT 4: VISIT TO CARDIOVASCULAR HYBRID OR'S Including Demonstration of Live Procedures</p> <p>Heart Center Leipzig, University Hospital Joerg Seeburger, MD, PhD, Heart Center Leipzig</p> | <p>9.00 – 12.30 EVENT 7: TALKS Digital Patient Modeling</p> <p>» Introduction to Digital Patient Models » Probabilistic Graphical Models and Decision Support » Graphical Models / Virtual Physiological Human</p> <p>Kerstin Denecke, PhD, ICCAS Mario Cypko, ICCAS Koray Atalag, MD, PhD, University of Auckland, NZL</p> | <p>9.00 – 11.30 EVENT 9 : VISIT TO INTEGRATED ENT-OR</p> <p>Including Demonstrations of Live Procedures</p> |
| <p>12.00 – 13.00 Lunch</p> | <p>12.30 – 13.30 Lunch</p> | <p>11.30 – 13.00 Lunch</p> | <p>12.30 – 14.00 Lunch</p> | <p>11.30 – 13.00 Lunch</p> |
| <p>13.00 – 17.00 EVENT 1: TALKS AND HANDS-ON Cardiovascular and Image Guided Interventions</p> <p>Joerg Seeburger, MD, PhD, Heart Center Leipzig Michael Moche, MD, Leipzig University Hospital</p> | <p>13.30 – 15.00 EVENT 3: TALKS Computer Assisted ENT Surgery</p> <p>Andreas Boehm, MD, Leipzig Univeristy Hospital</p> | <p>13.00 – 15.30 EVENT 5: HANDS-ON Anatomical Samples</p> <p>Department of Anatomy, Leipzig University Hospital Ingo Bechmann, MD, Universität Leipzig</p> | <p>14.00 – 15.00 EVENT 8: TALKS Computer Assisted Neurosurgery</p> <p>Dirk Lindner, MD, Leipzig University Hospital</p> | <p>13.00 – 14.00 EVENT 10: TALKS OR Infrastructure</p> <p>Heinz U. Lemke, PhD, IFCARS</p> |
| | <p>15.00 – 18.00 EVENT 2: HANDS-ON Workflow in Surgery and Image Guided Interventions</p> <p>» Workflow Management Systems » Workflow in Image-Guided Interventions</p> <p>Juliane Neumann, ICCAS Fabiola Fernández Guitérrez, PhD, Swansea University, UK</p> | <p>15.30 – 18.30 EVENT 6: TALKS AND HANDS-ON Computer Assisted CMF Surgery</p> <p>Thomas Hierl, MD, DDS, Leipzig University Hospital</p> | <p>15.00 – 18.00 EVENT 7: HANDS-ON Digital Patient Modeling</p> <p>» Probabilistic Modeling of Surgical Decision Making » openEHR for Information Modeling</p> <p>Mario Cypko, ICCAS Claire Chalopin, PhD, ICCAS Stefan Kropf, ICCAS</p> | <p>14.00 – 15.30 EVENT 10: HANDS-ON OR Infrastructure</p> <p>» Surgical Navigation and Tracking » Image Processing and Segmentation</p> <p>Stefan Franke, ICCAS Richard Bieck, ICCAS</p> |
| <p>17.00 – 19.00 Hotel Break</p> | <p>18.00 – 21.00 EVENT 3: HANDS-ON ENT Surgery</p> <p>» Sinus Surgery at Phantoms » Temporal Bone Surgery at Phantoms</p> <p>Andreas Boehm, MD, Leipzig Univeristy Hospital</p> | <p>18.30 – 19.30 Hotel Break</p> | <p>18.00 – 21.00 EVENT 8: HANDS-ON Neurosurgery</p> <p>» Spine Surgery at Phantoms » Craniotomy at Phantoms</p> <p>Dirk Lindner, MD, Leipzig University Hospital</p> | <p>15.30 – 17.00 Farewell and Feedback</p> <p>Thomas Neumuth, PhD, ICCAS</p> |
| <p>19.00 – 22.00 Social Event 1</p> | | <p>19.30 – 22.00 Social Event 2</p> | | |

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