Computer Assisted Orthopedic Surgery 2024





WELCOME TO CAOS 2024 NETHERLANDS SEE YOU IN GRONINGEN 19-22 JUNE 2024

WWW.CAOS2024.ORG



Paul Jutte Chair of local committee CAOS 2024 Groningen

www.CAOS2024.org

Welcome to CAOS 2024 in Groningen a vibrant and old city in the North of the Netherlands in the Western part of Europe

Surrounded by the natural, flat grazing grounds, lakes and forest-rich nature close to the sea, Groningen became city rights in 1040. The university was founded in 1614 and due to its successful curricula over 400 years, it now hosts 50.000 students from all over the world. And that brings the interesting mix of young and old, of tech and med that proved to be such a great fruitful soil for innovation. It is a field lab full of innovators living and working together to improve health by technology.

CAOS2024 will provide a wonderful event to meet old & make new friends and be enlightened into the newest developments in your field during interactive workshops, presentations and coffee breaks, where you can stroll by numerous industry displays whilst having good coffee and healthy local food.

We live in an era of an explosive rise of integration of technology in our daily lives. The world is 3D and so are we. Apps for daily support, computers to navigate, AI to predict, analyze and provide feedback, the rise of robots; so much to discuss and learn: further together with CAOS!

All the best wishes and a warm welcome from the coolest city in the Netherlands. Wish you were here already!

Who is at CAOS 2024 Groningen



Who will attend:

- We expect 150-200 participants from all over the world
- We aim for a cross-fertilization between delegates and corporate partners
- Target group:
 - orthopedic surgeons
 - trauma surgeons
 - researchers
 - Delegates from clinical and technical backgrounds and corporate partners
 - Biomedical engineers

Organizing committee

Prof.dr. Paul Jutte, Chairman, orthopedic surgeon
Dr. Hugo van der Veen, Treasurer, orthopedic surgeon
Dr. Jasper Gerbers, orthopedic surgeon
Prof.dr. Job Doornberg, orthopedic surgeon
Sander Tabernée Heijtmeijer, MSc technical physician
Dr. Frank IJpma, trauma surgeon
Dr. Peter Pijpker, technical physician
Dr. Joris Ploegmakers, orthopedic surgeon
Odette C.M. de Beer - Kock, PCO Excel Congresservice

About CAOS 2024 Groningen

www.caos2024.org



Congress Venue

The conference takes place at the University Medical Center Groningen (UMCG) Hanzeplein 1 Groningen, The Netherlands



Social Events Wednesday June 19th: Welcome Reception at Stach for Board, Organizing committee, Delegates and sponsors

Thursday June 20th: **Presidents Dinner (Invitation only)** for Board, Organizing committee, Keynote speakers and Platinum Sponsors **Young Investigators Pub Crawl**

Friday June 21st: CAOS 2024 Dinner Party at NOK (open invitation - ticket purchase necessary

CAOS 2024 Dinner Party Groningen



Friday 21 June 2024 www.caos2024.org

Venue: NOK Groningen Nieuwe Markt 1 Groningen

18.30 Drinks19.30 Dinnerparty & entertainment23.00 End of the Social events CAOS 2024

Tickets, including acces, drinks and dinner: Tickets € 90 Student-ticket € 50



Keynote Lecturers "Further Together"





Prof.dr. Ruurd Jaarsma Head of orthopedic surgery dept. Flinders University Adelaide, Australia Optimizing Education and Training using your Network: Reversed Perspectives from the Southern Hemisphere



Prof.dr.ir. Stefano Stramigioli Head of Advanced robotics & mechatronics University of Twente the Netherlands Clinical Applications of Robotics and Mechatronics: Innovation by Technical Intuition



Prof.dr. Sarthak Misra Head of Surgical Robotics Lab University of Twente & UMC Groningen the Netherlands Surgical Robotics: A Journey Across Scales



Dr. Prakash Jayakumar Orthopedic surgeon University of Texas Austin, Dell Medical School, USA A.I: Accelerating Personal Health Data Beyond Hype to Hope and New Horizons

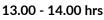


Dr. Frank Ypma Trauma Surgeon University Medical Center Groningen the Netherlands 3D Surgical Planning and Patient-Specific Implants in Orthopaedic Trauma Surgery



Elvis Chui Chun Sing Assistant Professor of Orthopaedics and Traumatology Chinese University of Hong Kong Al in Orthopaedics: Advancing Planning and Prediction Systems

WEDNESDAY 19 JUNE 2024: WORKSHOPS



- 1A: Workshop MDR: Patient specific protheses, plans and workflows, managing conformity under MDR Prof. dr. Gabrielle Tuijthof
- 1B: Workshop: Hands-on AI image recognition: How to use complex neural networks for detection and classification of radiographs. Where do you start? dr. Rik Wisselink-Bijker

14.15 - 15.45 hrs

- 2A: Workshop medCAD: hands-on digital planning using Materialise mimics/3matic. From case and CT to self made PSIs and plate planning + guide. Also using hololens. Ir. Miriam Oldhoff
- 2B: Workshop CAS: hands-on digital planning and execution using the Brainlab CAS system: imagebased for spine, trauma, oncology or complex orthopedics. Dr. Jasper Gerbers
- 2C: Focusgroup Robotics
- 2D: Focusgroup SOPS for DOR

16.15 - 17.30 hrs Round 3

- 3A: Focus group Oncology: Al, algorithms and assisted planning: a new frontier
- 3B: Focus group Applied Biomechanics: Collaboration through shared databases and challenges
- 3C: Focus group Ultrasound & Al



Preliminary program CAOS 2024: THURSDAY 20 JUNE 2024: KEYNOTE LECTURES & ABSTRACTS

- 08.30 Fundamental technology innovations
- 10.00 Coffee & Networking
- 10.45 Optimizing Education and Training using your Network: Reversed Perspectives from the Southern Hemisphere Keynote: Prof.dr. Ruurd Jaarsma
- 11.30 Optimal supervision for training surgeons in the OR Patrick Nieboer & Mike Huiskes
- 12.15 Lunch & Networking
- 13.15 Surgical Robotics: A Journey Across Scales Keynote: Prof.dr. Sarthak Misra
- 14.45 Tea & Networking
- 15.30 3D surgical planning and patient-specific implants in orthopaedic trauma surgery
 - Keynote: Dr. Frank Ypma
- 17.00 End of program
- 17.15 Board meeting CAOS at UMCG

Social events: 19.00 Presidents Dinner 21.00 Pubcrawl Young Investigators



Preliminary program CAOS 2024:

FRIDAY 21 JUNE 2024: KEYNOTE LECTURES & ABSTRACTS

- 08.30 Clinical outcome
- 10.00 Coffee & Networking
- 10.45 Al in Orthopaedics: Advancing Planning and Prediction Systems Keynote: Elvis Chui Chun Sing
- 12.15 Lunch, Visit Exhibition & Networking
- 13.15. Clinical Applications of Robotics and Mechatronics: Innovation by Technical Intuition Keynote: Prof.dr. Stefano Stramigioli
- 14.45 Tea & Networking
- 15.30 A.I: Accelerating Personal Health Data Beyond Hype to Hope and New Horizons Keynote: Dr. Prakash Jayakumar
- 17.00 General assembly CAOS

Social events: 18.00 CAOS Dinner Party





Preliminary program CAOS 2024:

SATURDAY 22 JUNE 2024: KEYNOTE LECTURES & ABSTRACTS

Saturday 22 June 2024

- 08.30 Computer Assisted Surgery developments
- 10.00 Coffee
- 10.45 Collaborative interdisciplinary studies
- 11.30 Podium presentations & award ceremony
- 12.00 Closing ceremony









From May 1st

€ 650
€ 300
€ 750
€ 350
€ 80

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