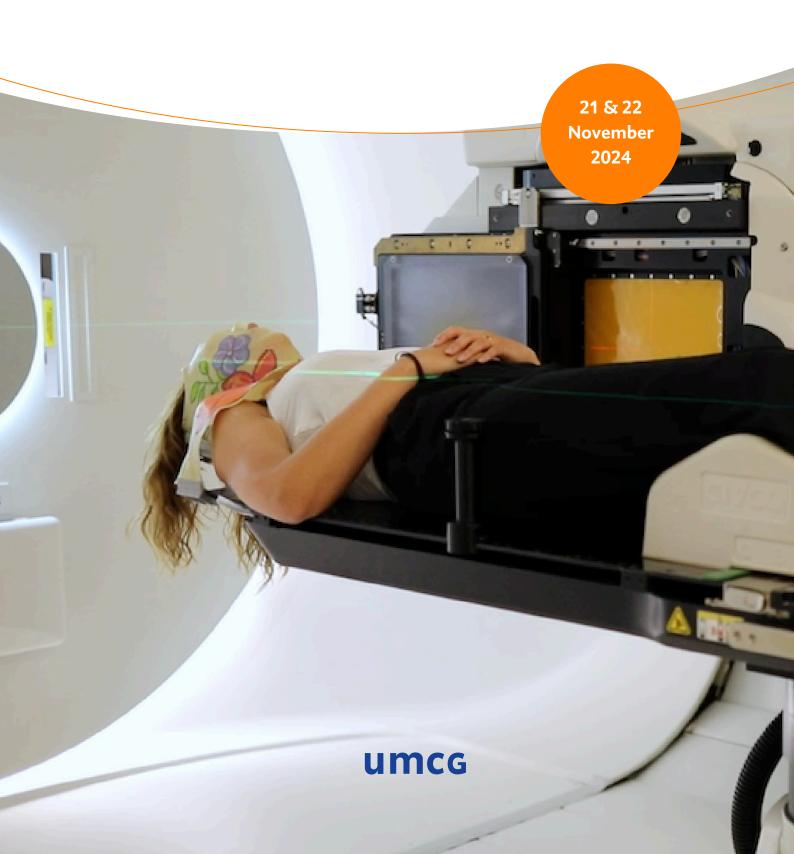
Innovations in AI for Healthcare

Illuminating the future of Medical Imaging and Radiotherapy



Programme

Thursday, November 21, 2024

Blue Hall of the University Medical Center Groningen (Hanzeplein 1) 9:00 Symposium kick-off by Wiro Niessen

9:15 – 11:00 Interdisciplinary collaboration | Chair: Erik Ranschaert

- Radiographers role in AI by Andrew England, University College Cork / EFRS (Cork, UK)
- Applied AI by George Azzopardi, University of Groningen, Faculty of Science and Engineering (Groningen, NL)
- Al and Language by Tommaso Caselli, University of Groningen, Faculty of Arts (Groningen, NL)
- Data Autonomy by Oskar Gstrein, University of Groningen, Campus Fryslan (Groningen, NL)
- Digital Literacy & Inclusion by Joelle Swart, University of Groningen, Faculty of Arts (Groningen, NL)

Coffee break

11:30-12:50 Getting AI into Clinical Use | Chair: Benoit Rizk

- Human-Machine Interaction in AI by Fokie Cnossen, University of Groningen, Faculty of Science and Engineering (Groningen, NL)
- Deciding what AI to buy by Kevin Groot Lipman, Netherlands Cancer Institute (Amsterdam, NL)
- Integrating AI in your hospital infrastructure by Wouter Veldhuis, UMCU, Dept. of Radiology (Utrecht, NL)
- Management of AI by Erik Ranschaert, Ghent University, Faculty of Medicine (Ghent, BE)

Lunch break

14:00-15:00 State-of-the-Art AI in Medical Imaging | Chair: Matthias Dietzel

- Al in Cardiothoracic Imaging by Rozemarijn Vliegenthart, UMCG, Radiology (Groningen, NL)
- Al in Nuclear Medicine by Klaas-Pieter Koopmans, UMCG, nuclear medicine (Groningen, NL)
- Al in Prostate Imaging by Derya Yakar, UMCG, Radiology (Groningen, NL)

Coffee break

15:30-16:10 State-of-the-Art AI in Medical Imaging | Chair: Derya Yakar

- Al in Musculosketal Imaging by Benoit Rizk, Reseau Radiologique Romand (Fribourg, CH)
- Al in Breast Cancer by Matthias Dietzel, University Hospital Erlangen (Erlangen, DE)

16:10 - 16:55 Keynote Lecture | Chair: Derya Yakar

 Simplify AI Performance Monitoring by Sergey Morozov, Head of R&D at 3R Swiss Imaging Network

17:30 - 19:00 A taste of AI - *Max* 150 participants, requires seperate registration Takes place at House of Connections (Grote Markt 21)

Programme

Friday, November 22, 2024

Blue Hall of the University Medical Center Groningen (Hanzeplein 1)

9:00-9:15 Symposium kick-off by Hans Langendijk

9:15-10:35 State of the art developments in AI for Radiotherapy | Chair: Alessia DeBiase

- Organs at Risk Segmentation by Marius Staring, LUMC, Radiotherapy (Leiden, NL)
- Synthethic Data Generation by Art Galapon, UMCG, Radiotherapy (Groningen, NL)
- Prediction of outcome and toxicity by Sanne van Dijk, UMCG, Radiotherapy (Groningen, NL)
- Target Segmentation by Jasper Nijkamp, Aarhus University Hospital, dept. of Oncology (Aarhus, DK)

Coffee break

11:10-12:30 Keynote Lectures | Chair: Coen Hurkmans

- International Collaboration with Federated Learning by Andre Dekker, Maastro, Radiotherapy (Maastricht, NL)
- Al for Motion Management by Guillaume Landry, University of Munich, Radiotherapy (Munich, DE)

Lunch break

13:30-15:00 Towards clinical implementation of AI in Radiotherapy | Chair: Charlotte Brouwer

- Implementation and Quality Assurance by Wouter van Elmpt, Maastro, Radiotherapy (Maastricht, NL)
- Towards explainability with uncertainty maps by Alessia de Biase, UMCG, Radiotherapy (Groningen, NL)
- Development, clinical validation and reporting of Al models in radiation therapy by Coen Hurkmans, Catherina ZKH, Radiotherapy (Eindhoven, NL)
- Multi-center prospective risk analysis of the Al automated workflow by Tomas Janssen, Netherlands Cancer Institute (Amsterdam, NL)

15:00-15:10 Wrap up by Charlotte Brouwer

16:15-17:15 Inaugural Lecture prof.dr.ir. P.M.A. van Ooijen

Takes place at Academic building University of Groningen (Broerstraat 5)

17:15-18:30 Reception

Academic building University of Groningen (Broerstraat 5)



Programme

Programme Committee

Peter van Ooijen, UMCG, Groningen, the Netherlands Erik Ranschaert, Ghent University, Ghent, Belgium Merel Huisman, RadboudMC, Nijmegen, the Netherlands Jan Jaap Visser, ErasmusMC, Rotterdam, the Netherlands Marianna Sijtsema, UMCG, Groningen, the Netherlands Charlotte Brouwer, UMCG, Groningen, the Netherlands Matteo Maspero, UMCU, Utrecht, the Netherlands Jonas Teuwen, NKI, Amsterdam, the Netherlands

Sponsored by

























