

Innovations in AI for Healthcare

Illuminating the future of Medical Imaging and Radiotherapy

21 & 22
November
2024

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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

- Applied AI by *George Azzopardi*
- AI and Language by *Tommaso Caselli*
- Data Autonomy by *Oskar Gstrein*
- Digital Literacy & Inclusion by *Joelle Swart*
- Radiographers role in AI by *Andrew England*

Coffee break

11:30-13:00 Getting AI into Clinical Use

- Human-Machine Interaction in AI by *Fokie Cnossen*
- Deciding what AI to buy by *Kevin Groot Lipman*
- Integrating AI in your hospital infrastructure by *Wouter Veldhuis*
- Management of AI by *Erik Ranschaert*

Lunch break

14:00-15:00 State-of-the-Art AI in Medical Imaging

- AI in Cardiothoracic Imaging by *Rozemarijn Vliegenthart*
- AI in Nuclear Medicine by *Klaas-Pieter Koopmans*
- AI in Prostate Imaging by *Derya Yakar*

Coffee break

- AI in Musculoskeletal Imaging by *Benoit Rizk*
- AI in Breast Cancer by *Matthias Dietzel*

16:10 - 17:00 Keynote Lecture

- Simplify AI Performance Monitoring by *Sergey Morozov*

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



Friday, November 22, 2024

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

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

9:15-10:45 State of the art developments in AI for Radiotherapy

- Organs at Risk Segmentation by *Marius Staring*
- Synthetic Data Generation by *Art Galapon*
- Prediction of outcome and toxicity by *Sanne van Dijk*
- Target Segmentation by *Jasper Nijkamp*

Coffee break

11:10-12:30 Keynote Lectures

- International Collaboration with Federated Learning by *Andre Dekker*
- AI for Motion Management by *Guillaume Landry*

Lunch break

13:30-15:00 Towards clinical implementation of AI in Radiotherapy

- Implementation and Quality Assurance by *Wouter van Elmpt*
- Towards explainability with uncertainty maps by *Alessia de Biase*
- Development, clinical validation and reporting of AI models in radiation therapy by *Coen Hurkmans*
- Multi-center prospective risk analysis of the AI automated workflow by *Tomas Janssen*

Wrap up

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
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