

# Innovations in AI for Healthcare

Illuminating the future of Medical Imaging and Radiotherapy

21 & 22  
November  
2024

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# 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**

- 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 seperate 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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