NL-IL Mini-Symposium on AI and Health

9 March 2021 11:00-13:00 IL time 10:00-12:00 NL time

Webinar through zoom

Registration: https://www.eventbrite.com/e/dutch-israeli-mini-symposium-on-ai-and-health-tickets-136241711627

Background

Artificial Intelligence (AI) is one of the Dutch Key Emerging Technologies (KETs). NL invests heavily in KETs in general and in AI specifically. In this aspect, the Netherlands AI coalition (nlaic.com) was established in 2019 to bring parties together to share knowledge and create critical mass. In Israel, there is an ambition to repeat the country's global success in cybersecurity in the AI domain. At the level of the Israeli government, a national AI agenda was formulated in 2019 awaiting the new government's approval and funding. Israeli AI startups make up a large portion of its 6,000 startups and the venture capital industry invests heavily in AI startups. The Netherlands and Israel cooperate in the field of AI in various sectors, among others in the health sector, in the form of funded EU projects as well as other projects. This mini symposium aims at sharing knowledge as the basis to further fostering R&D cooperation in the AI field.

Target audience

The mini symposium is open to students, researchers, companies, investors, governmental policy makers and the public interested in AI, in general, and, in particular, in the NL-IL context.

Program

IL time (10:00 NL time)

11:00-11:10   **Welcome note**
- Dr. Racheli Kreisberg, Innovation Attaché, Netherlands Embassy in Israel and Israeli Dutch Innovation Center (IDIC)
- Marloes Pomp, International Strategy, The Netherlands AI Coalition (NL AIC)
- Marieke Monroy, Deputy Head of Mission at Embassy of the Kingdom of the Netherlands in Israel

11:10-11:25   **Israel's National AI Initiative**
Maj. Gen. (Ret.) Prof. Isaac Ben Israel, Director of Blavatnik ICRC and Yuval Ne'eman Workshop at Tel Aviv University

11:25-11:40   **How to re-use medical data?**
Dr. Jeroen Maas, Challenge Lead Health, Amsterdam Economic Board

11:40-11:55   **How will AI revolutionize the medical world?**
Dr. Chen Sagiv, co-founder and co-CEO, DeePathology Ltd.

11:55-12:10   **The Health AI research program of Eindhoven Artificial Intelligence Systems Institute (EAISI)**

Dr. Pieter Van Gorp, Program Manager at Eindhoven Artificial Intelligence Systems Institute (EAISI), Eindhoven University of Technology

12:15-12:30   ***The Israeli AI ecosystem and possibilities for NL-IL cooperation***
Uri Eliabayev, AI consultant and founder of MDLI

12:30-12:45   ***Biomedical Imaging and Genetic Data Analytics with AI: opportunities and challenges to translate to clinical practice***
Prof. Wiro Niessen, Biomedical Imaging Group Rotterdam (BIGR), Principal Investigator of Quantitative Imaging Biomarkers & Imaging Genetics Erasmus MC

12:45-13:00   Wrap Up & Action Points

Biosketches

Uri Eliabayev, AI consultant and founder of MDLI

Uri is consulting companies that want to add AI capabilities to their service/products. Uri is working with big organizations and helps them to choose and implement the best AI solution for their needs. Also, Uri has founded the biggest AI community in Israel called "Machine and Deep Learning Israel". The community has more than 21,000 members who are the leading AI talents in Israel. Moreover, Uri is part of the national committees, which are responsible for establishing the Israeli strategy in the field of AI.

Dr. Pieter Van Gorp

Dr. Pieter Van Gorp has obtained his Ph.D. degree in Software Engineering at the University of Antwerp. Since 2008, he has been an assistant professor in Information Systems at Eindhoven University of Technology. His own research line focuses on digital health platforms. Besides that, he manages the program of health data science within the Eindhoven Artificial Intelligence Systems Institute (EAISI). Pieter Van Gorp is conducting research on digital health platforms, with a focus on long-term engagement, workflow management and privacy-by-design. Regarding long-term engagement, he is leading GameBus, delivering a playful and data-driven app suite that engages families and friends to a healthier lifestyle. Regarding workflow management, he has contributed to Tracebook, a dynamic checklist support system. He has also studied transformations and analyses for advanced process models (among others in relation to protocol compliance). Regarding privacy-by-design, Van Gorp has performed research on MyPHRMachines and he has supported a Personal Health Record (PHR) scale-up via a one-year sabbatical. Finally, Van Gorp has always been a strong proponent of open science (as illustrated by his work on SHARE.)

Maj. Gen. (Ret.) Prof. Isaac Ben Israel, Director of Blavatnik ICRC and Yuval Ne'eman Workshop at Tel Aviv University

Isaac Ben-Israel was born in Israel (Tel-Aviv), 1949. He studied Mathematics, Physics and Philosophy at Tel-Aviv University, receiving his Ph.D. in 1988. He joined the Israel Air Force (1967) and has served continuously up to his retirement (2002). He headed the IAF Operations Research Branch, Analysis and Assessment Division of IAF Intelligence, and was the Head of Military R&D in Israel Defence Forces and Ministry of Defence (1991-1997). In January 1998 he was promoted to Major General and appointed as Director of Defence R&D Directorate in IMOD. During his service he received twice the Israeli Defence Award. After retirement from the IDF, Isaac Ben Israel joined the University of Tel-Aviv as a professor and was the head of Curiel Centre for International Studies (2002-2004), the head of the Program for Security Studies (2004-2007) and a member of Jaffe Centre for Strategic Studies (2002-2004). In 2002 he founded and headed the Tel-Aviv University Workshop for Science, Technology and Security. Professor Ben-Israel was a member of the 17th Knesset (Israeli Parliament) between June 2007 and February 2009. During this period, he was a member of the Security and Foreign Affairs Committee, the Finance Committee, the Science & Technology committee, the Chairman of the Homeland Security Sub Committee and the Chairman of the Israeli–Indian Parliamentary Friendship Association.

Dr. Jeroen Maas, Challenge Lead Health at Amsterdam Economic Board

Jeroen Maas is an experienced leader with a passion for realising meaningful innovations that have societal impact. Working at the Amsterdam Economic Board, Jeroen is the Lead for Health, driving transitions in health and healthcare, with a focus on the use of (data)technology and artificial intelligence. He works with the Amsterdam Economic Boards' leading CEOs, scientists and policymakers on the ultimate aim to sustainably gain healthy life years.

Marieke Monroy-Winter

Marieke Monroy serves as Deputy Head of Mission in Israel since August 15, 2020. Before that she was Head of Security and Defense Policy in the Dutch Ministry of Foreign Affairs, mainly focusing on NATO, EU Common Security and Defense Policy, OSCE and security issues such as maritime security and hybrid threats. She held several other positions in the field of Security Policy both at the Dutch Ministry of Foreign Affairs and the Permanent Representation to NATO. Previously, she was Deputy Head of Mission in Lisbon and also held diplomatic positions in Slovakia and Indonesia. Marieke Monroy has a degree in Business Administration and a degree in Roman Languages and Cultures from the University of Groningen.

Prof. Wiro Niessen, Erasmus Medical Center Rotterdam

Wiro Niessen is professor in Biomedical Image Analysis and Machine Learning at Erasmus MC and Delft University of Technology. His interest is in the development, and validation of quantitative biomedical image analysis methods, and linking imaging and genetic data for improved disease diagnosis and prognosis. He supervised 52 PhD students in these fields. He is fellow and was president of the MICCAI Society, and CTO of Health-RI, which aims to develop a national health data infrastructure for research and innovation. In 2015 he received the Simon Stevin award, the largest prize in the Netherlands in Applied Sciences. In 2017 he was elected to the Royal Netherlands Academy of Arts and Sciences. In 2012 he founded Quantib, an AI company in medical imaging, where he is now scientific lead.

Marloes Pomp, International Strategy, The Netherlands AI Coalition (NL AIC)

Marloes Pomp is the Initiator and Program Officer for the blockchain and AI projects within the Dutch Government, including projects in the field of digital identities, logistics, healthcare, finance and food. She is also responsible for the international strategy and partnerships of the Dutch Blockchain Coalition and the National AI Coalition. Both coalitions are a jointly developed partnership by government, industry and knowledge institutions. Together they have a leading role and joint responsibility for the success of the solving societal challenges and making a major contribution to new economic activities.

Dr. Chen Sagiv, co-founder and co-CEO, DeePathology Ltd.

Chen Sagiv is the co-founder and co-CEO of SagivTech, a computer vision and AI projects company as well as the co-founder and co-CEO of DeePathology, a company that aims to disrupt pathology with AI. Prior to establishing SagivTech Chen worked as algorithms developer in Israel and the Netherlands. Chen is also the co-founder of the largest computer vision and AI event in Israel: IMVC – Israel Machine Vision Conference. Besides her professional activities Chen volunteers as a Math teacher for at risk youth and she serves as a member in the committee to promote women in science and technology at the Israeli Science and Technology Ministry. Chen holds a BSc. In Physics and Mathematics, MSc. in Physics and a PhD. In Applied Mathematics all from the Tel Aviv University and did her PostDoc at the University of Bremen in Germany.

Dr. Racheli Kreisberg, Israeli Dutch Innovation Center, Netherlands Embassy in Israel

Dr. Racheli Kreisberg serves since January 2016 as the Innovation Attaché of the Holland Innovation Network, Ministry of Economic Affairs, at the Netherlands Embassy in Israel. She is responsible for developing R&D and business collaborations between Dutch and Israeli companies, Universities and research institutions. Her work is focused on the High-Tech Systems and Materials (HTSM) top-sector, i.e., photonics, robotics, cyber, agro-tech as well as the Life Science and Agro&Food top sectors. Prior to this position she managed her own consultancy company that specialized in the initiation and management of collaborative EU research projects and she serves as an evaluator of the EU. Dr. Kreisberg was the Head of the Bioinformatics Unit of Tel Aviv University between 1998-2005. Dr. Kreisberg holds a PhD in Biotechnology and Molecular Microbiology from Tel Aviv University (TAU), an Executive MBA from TAU, an MSc in Chemistry (summa cum laude) from the Technion Israel Institute of Technology.