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RISE Computer Science and AI Open House

14 September 2023

Programme

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THURSDAY 14 SEPTEMBER

Electrum, floor 2

09.30 Registration and coffee

10.00 Welcome and introduction

Hanifeh Khayyeri, Vice President of Computer Science at RISE

10.10 KEYNOTE:

Title TBD

Ed Chi, Distinguished Scientist at Google DeepMind

10.40 KEYNOTE:

Game Changers: Exploring the Intersection of AI and Games

Sahar Asadi, Director of AI labs, King

11.10 Short break

11.15 KEYNOTE:

Talk: Challenges and opportunities with foundational models

Peter Sarlin, CEO of Silo AI. Moderator: Stella Riad, RISE

11.50 Taking the lead of AI for a sustainable future

Jeanette Nilsson, AI Eco Systems Driver at RISE

RISE, floor 6:

12.00 Lunch, mingle, posters and demo

13.00 Research presentations:

Environmental analysis powered by AI

Olof Mogren, Research Director of Deep learning at RISE

The ever-increasing capacity of generative AI

Fredrik Carlsson, Researcher, RISE

Preparing for cyberattacks – from research to cyber training and exercises

Shahid Raza, Director of the Cybersecurity Unit at RISE

15.15 Panel discussion: How close are we to Artificial General Intelligence

This RISE panel will discuss how close we are to Artificial General Intelligence and its impact on society and technology development from different perspectives, including AI, digitalisation, cyber security and more.

15.45 Mingle and snacks

This programme is subject to change until the event. Updated 2023-06-22

Keynote speakers



Ed. H. Chi, Google DeepMind

Ed H. Chi is a Distinguished Scientist at Google DeepMind, leading machine learning research teams working on large language models (LaMDA/Bard), neural recommendations, and reliable machine learning. With 39 patents and ~200 research articles, he is also known for research on user behavior in web and social media. As the Research Platform Lead, he helped launch Bard, a conversational AI experiment, and delivered significant improvements for YouTube, News, Ads, Google Play Store at Google with >660 product improvements since 2013.

Prior to Google, he was Area Manager and Principal Scientist at Xerox Palo Alto Research Center's Augmented Social Cognition Group in researching how social computing systems help groups of people to remember, think and reason. Ed earned his 3 degrees (B.S., M.S., and Ph.D.) in 6.5 years from University of Minnesota. Inducted as an ACM Fellow and into the CHI Academy, he also received a 20-year Test of Time award for research in information visualization. He has been featured and quoted in the press, including the Economist, Time Magazine, LA Times, and the Associated Press. An avid golfer, swimmer, photographer and snowboarder in his spare time, he also has a blackbelt in Taekwondo.

Sahar Asadi, AI Labs at King

Sahar Asadi is the Director of the AI Labs at King, where she leads AI research for mobile games. She has over 11 years of experience conducting applied research in various domains such as user understanding, distributed deep learning, information retrieval, NLP, and product recognition. Her research interests are focused on the scalability and generalization of learning methods, human-in-the-loop content generation, reinforcement learning for game playtesting, recommender systems, and responsible AI. Sahar holds a Ph.D. in Applied Autonomous Sensor Systems from Örebro University and is a co-founder of Women in Data Science, AI & ML Sweden. She actively collaborates with academic research groups and the WASP WARA community and contributes to the scientific community as an author, speaker, reviewer, and conference organizer.



Peter Sarlin, Silo AI

Peter Sarlin is CEO and co-founder of Silo AI, one of Europe's largest private AI labs, and a Professor of Practice in applied ML and AI at Aalto University, as well as a research associate/professor with Imperial College London, London School of Economics, Halle Institute for Economic Research and the University of Cape Town. He completed his PhD at Turku Center for Computer Science, is the Vice President at the IEEE Computational Finance and Economics Technical Committee and previously worked for the ECB and IMF, among others.

RISE speakers



Hanifeh Khayyeri

Hanifeh Khayyeri is the Vice President of Computer Science at RISE, a state-owned research institute in Sweden with expertise in all areas of applied sciences and industrial sectors. Hanifeh leads a department of more than 100 researchers in areas such as AI, Cybersecurity, IoT and Infrastructure. She holds a PhD in Computational Bioengineering from Trinity College Dublin and has more than 15 years of research experience. Hanifeh has in-depth experience in research and innovation policy, primarily large-scale international research infrastructures, and is also an appointed expert for the European Commission and the Swedish Government. Her spare time is mostly spent on issues relating to human rights, particularly the rights of women.

Stella Riad

Stella Riad is Director of Data Analysis at the Computer Science department at RISE. She has a PhD in Theoretical Particle Physics from KTH Royal Institute of Technology and has more than five years' experience performing and leading research in the MedTech sector.



Jeanette Nilsson

Jeanette Nilsson has an engineering degree from Luleå University of Technology and has worked with business development on a national, regional and local basis. She has close to five years of experience from working with lobbying in Brussels. Currently, she works at RISE as an AI Ecosystem expert with the goal of making Sweden a leading European nation when it comes to using artificial intelligence technology to strengthen societal development. Jeanette is also active in the HPC community and part of the group that is developing the Swedish HPC center with the responsibility of connecting industry and SME. She is a board member of BDVA and a member of the RIAG (Research Innovation Advisory Group) to the Euro HPC JU.



Olof Mogren

Olof Mogren is the Research Director of Deep learning within the RISE Center for Applied AI Research. His work includes federated learning, privacy-preserving representation learning, and generative adversarial networks for multiple data modalities, including images, sound, natural language, and other types of sensor inputs. His recent work includes applied research related to soundscape analysis and computer vision for biodiversity monitoring, efficient and distributed machine learning, uncertainty quantification, predictive maintenance of district heating networks, and smart fire detection using machine listening.



RISE speakers



Fredrik Carlsson

Fredrik Carlsson is a RISE employed Algorithmic Artificial Intelligence Researcher. Fredrik is specialized in transformer architectures, which are the basis for ground-breaking inventions such as ChatGPT and GPT-4. Fredrik has been working with language models (before they were large), and is currently focusing on improving the data efficiency of GPT-like models. Alongside this research track, Fredrik has been part of an ongoing RISE initiative to educate and raise awareness of AI in society.

Shahid Raza

Professor Shahid Raza is the Director of the Cybersecurity Unit at RISE, where he has been working since 2008 and currently leading a team of highly qualified cybersecurity experts. Shahid has envisioned and founded the RISE Cyber Range and the Swedish Cybersecurity Research and Innovation Node (cybernoder.se) and leads these initiatives. He has also co-founded Cybercampus Sweden. (cybercampus.se)

Shahid is an expert cybersecurity researcher; his scientific work is published in prestigious journals and conferences, which have received over 6000 citations. Shahid holds a PhD and a Master of Science degree, both in cybersecurity. (<http://shahidraza.net>)

