AI and data science for diagnostics and health decision support

This is one of five breakout sessions at the AI for Life Science Workshop @ KTH, Oct 14. The session is organized by Jayanth Raghothama, KTH, Biomedical Engineering and Health Systems.

In this breakout session, we will cover issues, methods and applications to support decision making in clinical settings, focusing on both clinicians and patients as user groups. Talks will cover early diagnostics and warning systems aimed at prevention and mitigation, natural language processing and cognitive support in intensive and critical care.

This will be a virtual event on zoom (link will be provided) between 14:25 – 15:55, Oct 14.

Session outline:


14.35 – 15.20 Short Pitches

Ashish Kumar, KI, Cross-trait analysis in respiratory and metabolic phenotypes – opportunities and challenges in correlating health outcomes and OMICS’ public repositories

Annaclaudia Montanino, Getinge, Using machine learning to optimally adjust patient model parameters

Saikat Chatterjee, KTH, AI for Real-Time Early Warning Systems

Jawad Elomari, RISE, Early Warning Systems in Healthcare

Petra Szeszula, Andningmed, Smart intuitive inhaler for respiratory diseases

Martin Jacobsson, KTH, Using machine learning to predict and prevent perioperative hypotension and its complications

Johan Lundin, KI, Point-of-Care Diagnostics of Cancer and Infectious Diseases with AI-Supported Mobile Microscopy

15.20 – 15.25 Break, split into breakout rooms

15.25 – 15.55 Discussions in breakout rooms