INDUSTRIAL FORUM SPEAKERS

AI for Human Well-Being

15:00-17:00, November 1

Research Director & Associate Professor

Stefan Winkler

Asus Intelligent Cloud Services (AICS), Singapore

National University of Singapore (NUS), Singapore

Machine Learning for Healthcare Applications

Machine learning has shown tremendous promise across a broad range of domains. The healthcare environment is becoming increasingly ready to embrace these solutions, which have the potential to lower healthcare costs, identify more effective treatments, and facilitate prevention and early detection of diseases. However, the development of machine learning solutions for healthcare requires paying close attention to the ecosystem as well as the clinical workflow.

In this talk, I will share recent advances in machine learning, computer vision, and natural language processing that are driving innovation in medicine, including some example solutions. Finally, I will discuss challenges and future directions for machine learning in healthcare.

BIOGRAPHY

Stefan Winkler is Research Director of Asus Intelligent Cloud Services (AICS) as well as Adjunct Associate Professor at the National University of Singapore (NUS). Prior to that he was Deputy Director at AI Singapore. He also co-founded two start-ups (Genista and Opsis) and worked for a Silicon Valley company.

Dr. Winkler has a Ph.D. degree from the Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, and a Dipl.-Ing. (M.Eng./B.Eng.) degree from the University of Technology Vienna, Austria. He is an IEEE Fellow and has published over 150 papers. He has also contributed to international standards in VQEG, ITU, ATIS, VSF, and SCTE. His research interests include video processing, computer vision, machine learning, perception, and human-computer interaction.

15:00-17:00, November 1

Country Head

Karthi Madhavan

Tata Consultancy Services, Taiwan

AI - Global Trends and Opportunities

Traditionally, economic activity has been grouped into three buckets—production, transactions, and interactions—and technology had made significant inroads into each. Machines and factory technologies transformed production by augmenting and automating human labor during the Industrial Revolution more than 100 years ago, and evolved technologies have further amped up efficiencies on the manufacturing floor. Transactions have undergone many technological iterations over approximately the same time frame, including most recently digitization and, frequently, automation. Until recently, interactions, such as customer service, has experienced the least mature technological interventions. Generative AI is set to change that by undertaking interactions in a way that approximates human behavior closely and, in some cases, imperceptibly. That's not to say these tools are intended to work without human input and intervention. In many cases, they are most powerful in combination with humans, augmenting their capabilities and enabling them to get work done faster and better. This creates enormous and transformational possibilities in all facets of economic activity in the near future.

BIOGRAPHY

Karthi Madhavan is presently the Country Head of Tata Consultancy Services, Taiwan, ROC. He has over 28 years of experience in Business Operations Management and Growth, Delivery Unit Management, People Management and Coaching and International Business in IT and Services Sector across various geographies. Karthi holds a Bachelor's Degree with Distinction in Physics from The Madras Christian College and has advanced training in management and negotiation from premier institutes. He and his projects are recipient of many awards some of which are, The President of India Award for Best Use of IT, Governor's Award for EGovernance, World Bank Award, CSI All India Award for Excellence in IT and Asia Pac FT- Citi Urban Ingenuity Awards. Karthi is very passionate about education and he's an honorary member of the Management Council of Karnataka Industrial Training Institute (ITI). He is an invited speaker in many forums on Smart City, EGovernance programs and Digital Technologies and is actively involved in large scale transformational IT and social programs. He is an avid sports lover and loves golf and horse riding. He enjoys history, books, travelling and meeting new people.