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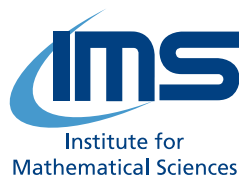
NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE | **Institute of Advanced Studies**

Public Lecture

Topological Deep Learning

Gunnar Carlsson

Partially funded by the Ng Kong Beng Memorial Fund

Date and time
26 July 2022, 10–11am
Singapore (GMT+8)

25 July 2022, 7–8pm
Pacific Time (GMT -7)
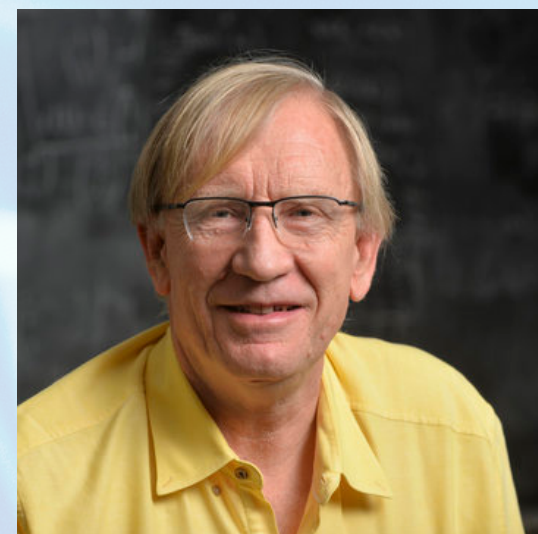

Gunnar Carlsson

Stanford University, USA

About the talk

Deep learning is a very powerful methodology which can solve many AI problems. There are a number of problems with it, though, including a lack of transparency and a lack of generalizability from one data set to another. In addition, it often requires a great deal of data for training and can be very expensive computationally. In this talk, we will discuss some investigations into the behavior of deep learning, and suggest some approaches to deal with the problems mentioned above.

About the speaker

Professor Carlsson is Professor Emeritus and Ann and Bill Swindells Professor at Stanford University. He received his PhD from Stanford University. His previous affiliations include the University of California, San Diego and Princeton University.

He is Fellow of the American Mathematical Society (2017). He held a Alfred P. Sloan Fellowship (1983-1987). He gave a Whittaker Colloquium at the University of Edinburgh, and Rademacher Lectures at the University of Pennsylvania in 2011. He gave a keynote lecture at the Inaugural conference for Computational Instute, University of Illinois, Urbana-Champaign in 2012.

He founded the AI INc. Ayasdi Inc. (2008) and UnBox AI (2019). His research interests include algebraic topology, algebraic K-theory, topology and number theory.

Online via Zoom
Registration
https://tinyurl.com/IMSIASPLJuly2022

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