





NEURAL NETWORKS FOR MACHINE LEARNIN

A Symposium Honoring Kunihiko Fukushima Recipient of the 2021 Bower Award and Prize for Achievement in Science

"For his pioneering research that applied principles of neuroscience to engineering through his invention of the first deep convolutional neural network, "Neocognitron"—a key contribution to the development of artificial intelligence."



Wednesday, April 28, 2021

9:00 AM – 1:00 PM (Eastern Daylight Time) Free Webinar with Registration

Registration:

https://tinyurl.com/BowerFukushima See also: www.fi.edu/awards

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9:05 Franklin Institute Awards (Video)

- 9:10 Bower Award Laureate (Video)
- 9:20 Deep CNN Neocognitron and its Advances KUNIHIKO FUKUSHIMA
- 10:00 ADALINE, MADALINE, and Neocognitron BERNARD WIDROW
- 10:20 Appraisal of Kunihiko Fukushima's Work JÜRGEN SCHMIDHUBER
- 11:00 A Brave New World: Overfitting is Good When Deep TOMASO POGGIO
- 11:40 Multidisciplinary Innovation & Fukushima: Lessons Learned DONALD WUNSCH
- 12:20 The Unreasonable Effectiveness of Deep Learning in Al TERRY SEJNOWSKI

KUNIHIKO FUKUSHIMA, PH.D., Laureate

Fuzzy Logic Systems Institute Former: Osaka University and NHK Science and Technology Research Laboratories

BERNARD WIDROW, SC.D.

Professor Emeritus, Stanford University 2001 Ben Franklin Medal in Engineering

JÜRGEN SCHMIDHUBER, PH.D.

NNAISENSE and the Swiss AI Lab IDSIA, University of Lugano, Switzerland

TOMASO POGGIO, PH.D.

Center for Brains, Minds, and Machines Massachusetts Institute of Technology

DONALD WUNSCH, PH.D.

Applied Computational Intelligence Lab Missouri University of Science and Technology

TERRY SEJNOWSKI, PH.D.

Computational Neurobiology Laboratory, Salk Institute and Division of Biological Sciences, University of California

Speakers' Bio and Abstracts

https://tinyurl.com/chjuwjum