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~~IEE/CSE 598: Lecture 7G
(2020-04-15) - Intro. to
Spiking Neural Networks and
Neuromorphic Computing
*Spiking Neural Networks for
More Efficient AI Algorithms*
Ruben Coen-Cagli - Tutorial
on Computational
Neuroscience Cracking the
neural code and
disentangling the wiring
diagram Neural Computation:
Markus Meister at
TEDxCaltech Anatoly Buchin -
Computational Neuroscience
AI | Podcast #10
Spike: A Journey through the
Brain - Mark Humphries
Interview~~

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~~The Spike: How Your Brain Uses Electrical Impulses to Communicate - with Mark Humphries~~
~~Computational Modelling of Human Epilepsy: from Single Neurons to Pathology~~
~~THEORETICAL AND COMPUTATIONAL NEUROSCIENCE B 26102017~~
~~Ila Fiete - Neural Codes for Representation and Memory (October 9, 2013)~~
~~What Bodies Think About: Bioelectric Computation Outside the Nervous System~~
~~NeurIPS 2018~~
Neuromorphic Computing Is a Big Deal for A.I., But What Is It?
~~Lecture 1.1: Nancy Kanwisher - Human Cognitive Neuroscience~~
10 Reasons to Get Off Social Media - Jaron Lanier
#88 Andy Clark: How

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*Brains Model The World IBM's
Incredible TrueNorth Chip //
Neuromorphic Computing*

**Artificial intelligence and
algorithms: pros and cons |
DW Documentary (AI**

documentary) Illustrated
Guide to Recurrent Neural
Networks: Understanding the
Intuition ~~Cognitive Science:
What Is It and Why Is It
Important?~~ Brain-Like
(Neuromorphic) Computing -
Computerphile Blake Richards
~~— Deep learning with
segregated dendrites~~ **Ma Lab
research talk: A neural code
for probabilistic
computation in visual
cortex.** ~~Lecture 1.2: Gabriel
Kreiman — Computational
Roles of Neural Feedback~~

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Garrett Kenyon | Cracking
The Neural Code: Discovering
the Language of the Brain

*What is a neural
representation? (Romain
Brette) Deciphering Neural
Code Through Large-Scale
Motor Cortex Simulation:
SUNY Downstate Medical
Center Neural Processing in
the Retina: Efficient Coding
or Selective Computation?
Computation in Networks of
Neurons in the Brain I*

Lecture 2.1: Josh Tenenbaum
- Computational Cognitive
Science Part 1 Spikes
Exploring Neural Code
Computational

By contrast, several
computational ... and
understanding the neural

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code 2. The term 'neural code' refers to the properties of a single sequence of action potentials (spike trains) or a spike ...

Spiking activity propagation in neuronal networks: reconciling different perspectives on neural coding

The partnership started when Ellen Zhong, a graduate student from the Computational ... spike protein, which could help scientists design treatments and vaccines to fight coronaviruses. Zhong, Berger, ...

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The power of two

Each cell has a tuning curve for the quantity, which shows how its average response (in spikes ... in neural hardware. Most of the early computational focus on population codes centred on the ...

Information processing with population codes

We posited that the neural code for 3D spatial navigation in a fast-flying animal ... recordings from the dorsal CA1 region of four Egyptian fruit bats exploring the full 3D volume of a large flight ...

Nonlocal spatiotemporal

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Computational Neuroscience
Representation in the
hippocampus of freely flying
bats

In our case, the digital signal processing is used for the spike sorting analysis. We propose a toolbox of IPs allowing the automatic design of signal processing system. B. Spike sorting Neural Spike ...

IP-based Toolbox for Digital
Signal Processing Reuse:
Application to Real-time
Spike Sorting

My recent experimental and theoretical studies have been focused on an analysis of the "codes" with which nerve cells in sensory systems represent

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Computational
Neuroscience
information about external
stimuli, the neural ...

John P. Miller

In essence, we take an
empirical perspective
towards the underlying goal
of understanding the neural
code in cortex, i.e., what
do action potentials and
spike trains mean ...
psychophysics, and ...

Alexander C Huk

From self-driving cars to
the industrial Internet of
Things, neural networks ...
be a fraction of the code
involved, even if it
requires a significant
portion of the computational
support.

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Neural-Network Hardware Drives the Latest Machine- Learning Craze

After exploring a few random online shops one day ...

There's 6 MB of SRAM on the CPU, and there's 2MB for convolutional neural network acceleration. There is, apparently, WiFi on some ...

New Part Day: The RISC-V Chip With Built-In Neural Networks

They form the basis of the genetic code and are present in all living beings ... By using an artificial neural network that ... The California Current extends nearly 2,000 miles from

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Molecular & Computational
biology news

3 Bernstein Center for
Computational Neuroscience
Berlin, Philippstr. 13,
10115 Berlin, Germany. 4
Institute for Theoretical
Biology, Humboldt-
Universität zu Berlin, 10115
Berlin, Germany. ↵ These
...

Spatially structured
inhibition defined by
polarized parvalbumin
interneuron axons promotes
head direction tuning

In early 2020, when the
novel coronavirus was
gaining momentum but had not

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yet been named a pandemic, computational chemist Marti Head of Oak Ridge National Laboratory - along with scientists and ...

How DOE Scientists Disrupted COVID-19

The Oxford research team used an advanced computational approach using machine ... the drugs were classified into two groups using artificial neural network analysis: • Drugs that targeted ...

Two Hundred Approved Drugs Found to be Effective Against COVID-19

This allowed them to uncover atomic-level details of the

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Computational Neuroscience
protein's structure, which
were then used to inform
computer simulations
exploring ... advanced
methods of computational
biophysics ...

New details on transport
protein could help develop
drugs for neurological
diseases

His broad interest is in
attention and learning, and
he uses computational ...
exploring how findings from
cognitive psychology and
neuroscience can be applied
to criminological research
and legal ...

Cognitive Science Lab

Since its inception in 2019,

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Psilera has also worked with computational chemistry – a mixture of computer ... upon erasing and re-paving connections between nerve cells, called neural pathways. The ...

Tampa startup treating illness with 'shrooms receives \$2.5 million

“We are also looking forward to seeing our technology being used for emerging applications such as coherent LiDAR, photonic neural networks ... we will open a path toward rich computational ...

Power/Performance Bits: June 15

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Digital advertisements experienced sharp spikes in pricing while online platforms ... Translating thoughts to code would allow the tech giant to access sensitive data buried in the deepest parts ...

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