

Resource Summary Report

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Institute of Neuroinformatics

RRID:SCR_008331

Type: Tool

Proper Citation

Institute of Neuroinformatics (RRID:SCR_008331)

Resource Information

URL: <http://www.ini.uzh.ch/>

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Description: The mission of the Institute is to discover the key principles by which brains work and to implement these in artificial systems that interact intelligently with the real world. The Institute of Neuroinformatics is built of many people covering a wide range of disciplines and research areas. The major research projects and areas are listed below. - Behavior and Cognition: At the Institute of Neuroinformatics researchers investigate in Behavior and Cognition on various levels, ranging from neuronal circuit models of learning and adaptation over psychophysical experiments for color constancy up to modeling complex behavioral tasks such as exploration and goal-directed navigation. - Computation in Neural Circuits: By examining the brains of cats, rats and monkeys, and by making simulations of the cortex, INI hopes to learn how this circuit performs such widely different tasks. This knowledge might lead to advances in how computers are designed, and will certainly lead to advances in the subtlety and power of medical neuroscience. - Neurotechnologies: INI aims to harness the principles of biological computation, which can be expected to have a major impact on the technology market as autonomous intelligence pervades equipment, vehicles, buildings, utilities and clothing. Sponsors: INI is supported by European Union (EU), Gerbert Ruf Stiftung, Neuroscience Center (ZNZ), Swiss Confederation (KTI), Swiss Federal Institute of Technology Zurich (ETH), Swiss National Science Foundation (SNF), University of Zurich (UZH), and VW Stiftung

Synonyms: INI

Resource Type: institution

Keywords: adaptation, artificial system, autonomous, behavior, biological, brain, cat, circuit, cognition, color, computation, constancy, cortex, intelligence, learning, medical, model, monkey, neural, neuroinformatics, neuronal, neuroscience, neurotechnology, psychophysical, rat, researcher, simulation, technology

Resource Name: Institute of Neuroinformatics

Resource ID: SCR_008331

Alternate IDs: nif-0000-24788

Record Creation Time: 20220129T080246+0000

Record Last Update: 20260912T195702+0000

Ratings and Alerts

No rating or validation information has been found for Institute of Neuroinformatics.

No alerts have been found for Institute of Neuroinformatics.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Casares-Arias J, et al. (2021) Correlative confocal and scanning electron microscopy of cultured cells without using dedicated equipment. STAR protocols, 2(3), 100727.

Rybak J, et al. (2016) Synaptic circuitry of identified neurons in the antennal lobe of *Drosophila melanogaster*. The Journal of comparative neurology, 524(9), 1920.

Marx S, et al. (2015) Competition with and without priority control: linking rivalry to attention through winner-take-all networks with memory. Annals of the New York Academy of Sciences, 1339(1), 138.

Luzzati F, et al. (2011) Combining confocal laser scanning microscopy with serial section reconstruction in the study of adult neurogenesis. Frontiers in neuroscience, 5, 70.

Bery A, et al. (2010) Structure of the central nervous system of a juvenile acoel, *Symsagittifera roscoffensis*. Development genes and evolution, 220(3-4), 61.