



CNeuro2024 Lecture Abstracts

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Abstract 1 – Basic Lecture:

The Cerebellum: a Computational Perspective

- 1) Some examples of cerebellar tasks
- 2) The cerebellum anatomy
- 3) The classical Marr-Albus-Ito theory
- 4) The Vestibulo-Ocular-Reflex and cerebellar adaptation
- 5) Granule cells: projection into high dimensional space and time basis
- 6) Purkinje cells as perceptrons

Abstract 2 – Advanced Lecture:

The Credit Assignment Problem and the Cerebellum

- 7) The credit assignment problem
- 8) Weight and node perturbations
- 9) Song learning in birds
- 10) Node perturbation and learning in the cerebellum
- 11) Some recent experiments