

Resource Summary Report

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Summer School in Computational Sensory-Motor Neuroscience

RRID:SCR_006894

Type: Tool

Proper Citation

Summer School in Computational Sensory-Motor Neuroscience (RRID:SCR_006894)

Resource Information

URL: <http://www.compneurosci.com/CoSMo2012/>

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Description: This unique summer school focuses on computational techniques integrating the multi-disciplinary nature of sensory-motor neuroscience through combined empirical-theoretical teaching modules and a focus on the use of databases of movement data (NSF CRCNS). Major breakthroughs in brain research have been achieved through computational models. The goal of the Summer School in Computational Sensory-Motor Neuroscience is to provide cross-disciplinary training in mathematical modelling techniques relevant to understanding brain function, dysfunction and treatment. In a unique approach bridging experimental research, clinical pathology and computer simulations, students will learn how to translate ideas and empirical findings into mathematical models. Students will gain a profound understanding of the brain's working principles and diseases using advanced modelling techniques in hands-on simulations of models during tutored sessions by making use of data / model sharing. This summer school aims at propelling promising students into world-class researchers. Dates: August 5-19, 2012 Location: Northwestern University Chicago (Evanston campus), Illinois, USA Deadlines: * April 22, 2012: Application due, including letters of reference (extended!!!) * May 1, 2012: Notification of acceptance * May 20, 2012: Attendance confirmation of applicants and registration payment This summer school is directed at graduate students and post-doctoral fellows from multi-disciplinary backgrounds, including Life Sciences, Psychology, Computer Science, Mathematics and Engineering. We will also accept highly motivated outstanding under-graduate students. There are no formal prerequisites, but basic knowledge in calculus, linear algebra, neuroscience and the Matlab simulation environment is expected. Enrollment will be limited to 40 participants.

Abbreviations: CoSMo 2012

Synonyms: 2012 Summer School in Computational Sensory-Motor Neuroscience

Resource Type: training resource, data or information resource, short course

Keywords: computational, sensory-motor, neuroscience, summer school, graduate student, postdoctoral fellow, undergraduate

Funding: Canadian Action and Perception Network ;
NSF ;
NeuroDevNet ;
NSERC Collaborative Research and Training Experience ;
McGill Centre for Applied Mathematics in Bioscience and Medicine ;
Mitacs ;
Natural Sciences and Engineering Research Council of Canada

Resource Name: Summer School in Computational Sensory-Motor Neuroscience

Resource ID: SCR_006894

Alternate IDs: nlx_144614

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260808T185851+0000

Ratings and Alerts

No rating or validation information has been found for Summer School in Computational Sensory-Motor Neuroscience.

No alerts have been found for Summer School in Computational Sensory-Motor Neuroscience.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Walker B, et al. (2013) The database for reaching experiments and models. PloS one, 8(11), e78747.