

Special Issue

New Insights into Computational Neuroscience

Message from the Guest Editor

This Special Issue is devoted to the illustration of new research in Computational Neuroscience, focusing on its multidisciplinary aspects that gather expertise in physics, mathematics as well as biology, chemistry, engineering, and computer science.

We believe that leveraging the combination of different approaches for the investigation of the brain, its structure, and its cognitive functions represents a richness that Computational Neuroscience should exploit. We anticipate contributions that aim at the understanding of brain physiology and functionalities through the development of analysis methods, algorithms, and mathematical models, whilst linking different scales and building a theoretical framework that takes into account the latest experimental findings, fostering interactions between theoretical and experimental neuroscience.

A related workshop, BASSES (Brain Activity across Scales and Species: analysis of Experiments and Simulations) will be held in Rome, Italy, on 13th-15th June 2022, with lectures, hands-on sessions and call for contributions. Details can be accessed on the workshop web page, <https://www.humanbrainproject.eu/en/education/ebrains-workshops/basses/>.

Guest Editor

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Deadline for manuscript submissions

closed (20 March 2024)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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