



Natural Computing

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Message from the Guest Editors

Dear Colleagues,

Natural computing is a broad field of research that has gained significant focus not only because many computing models inspired by natural phenomena have proved their usefulness in solving real complex problems, but also because natural media were used successfully as support for computation. The roots of natural computing draw their strength from both theoretical computer science and the natural sciences. The paradigm shift in computer science, widening its classical notion of computation towards embedding, using, or relying on natural phenomena, represents one of the most exciting flows in interdisciplinary research. Topics like cellular automata, neural computation, swarm intelligence, evolutionary computation, membrane and (bio)molecular computing, as well as quantum computing constitute major branches of natural computing. They regard the computational aspects of developmental processes happening at the level of living organisms/cells, how they communicate and collaborate to achieve a certain goal, how the brain processes “information”, or even how interactions between atomic particles can be employed to perform computations.





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Message from the Editor-in-Chief

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