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SPECIAL ISSUE ON

Foundational Studies in Bioinspired Technologies

Overview:

Biology offers an empirical and profound glimpse of dynamic stability, robustness, control, resilience, and survival in dynamic environments. As such, practitioners seek the understanding of key principles, processes, and mechanisms in biological systems to leverage those understandings in design, engineering, and technological applications. Accordingly, the application of biological research to systems and technology holds immense potential and reveals many technical challenges. This MONET special issue on Foundational Studies in Bioinspired Technologies welcomes formal and rigorous research focused on Bioinspired technology and the Foundational aspects of the connection between domains of biology and technology and how they may evolve similar schemes.

Topics

Topics of interest include, but are not limited to, the following scope:

<ul style="list-style-type: none">- adversarial modeling, agent based models, biological theory change and its impact on corresponding bioinspired technology, cellularization, costly signaling (Proof of work, stake, etc.), deception, evolution, game theory, identification of theoretical obstacles that prevent transition from biology to technology, measures of validity and validation of methodology, mechanistic adaptability of theories from philosophy of biology to technology, natural kinds and species (i.e., classification of bioinspired technology), network theory, recommender and verifier systems, signaling games and equilibria and conventions, smart contracts (Block chains, ICO, Governance)	<ul style="list-style-type: none">- amorphous computing, artificial chemistry, artificial gene regulatory networks, artificial immune systems, artificial life, autonomous vehicle systems, biological process and data analysis, cellular automata, chaotic systems, computational epidemics, cyber security and privacy and intelligence, evolutionary computation, healthcare, intelligent systems, internet of Things (IoT), mobile robotics, modeling and simulation, nature-inspired models and calculi, neural networks/computation, reaction-diffusion computing, self-organization, smart services and cities, swarm intelligence, bacterial computing and communication, biometric security and privacy, biosensing, brain-computer and human-computer interface, cellular and membrane computing, chemical signaling and communication, DNA computing and memory, energy harvesting from biological sources, molecular assembly computing and communication, physarum computing
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Important Dates

- **Manuscript submission deadline: 2019-06-01**
- Notification of acceptance: 2019-10-01
- Submission of final revised paper: 2019-08-15
- Publication of special issue (tentative): 2019-11-01

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es)

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