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Call For Papers

Journal of Theoretical Computer Science - C  
<http://www.sciencedirect.com/science/journal/03043975>

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Special Issue: THEORETICAL ASPECTS OF ARTIFICIAL IMMUNE SYSTEMS

Submission Deadline: OCTOBER 31st, 2009

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Artificial Immune Systems (AIS) is a diverse area of research that attempts to bridge the divide between immunology and engineering. Typically, within AIS algorithms are developed through the application of techniques such as mathematical and computational modeling of immunology, abstraction from those models into algorithm (and system) design and implementation in the context of engineering. Such algorithmic developments within AIS have focussed, primarily on four main immunological theories: clonal selection, immune networks, negative selection and dendritic cells. These algorithms have been applied to a wide variety of applications including computer security, fault tolerance, data mining and optimisation to name a few. There is an increasing need for further theoretical studies to underpin the engineering advances that have been made. This special issue aims to bring together state-of-the-art theoretical advances in the area of artificial immune systems .

Submitted papers should focus on the theoretical analysis of immune-inspired algorithms, and not theoretical models of immunology. Such theoretical studies might focus of clonal selection, negative selection, immune network and dendritic cell algorithms, or the development of new immune-inspired algorithms from a theoretical perspective.

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GUEST EDITORS:

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Paul Andrews, University of York, UK

Andy Hone, University of Kent, UK

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SUBMISSION:

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Please submit via the TCS website at <http://ees.elsevier.com/tcs/> and

select the code words: Special issue: AIS/Timmis when submitting your paper.

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IMPORTANT DATES:

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Manuscript due:                    October 31, 2009  
Notification:                        January 29, 2019  
Final manuscript due:    March     31, 2010

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