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Journal of Advances in Information Technology (JAIT, ISSN 1798-2340)

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Special Issue on Satisfiability Based Computing

The widespread use of information processing has resulted in a high degree of integration of information technology in all kinds of applications. Consequently, the magnitude and complexity of information processing systems has increased tremendously, and reasoning about such systems becomes more and more complicated. Efficient computational representation and analysis of this vast knowledge base in a coherent way has also become a challenging task.

This special issue seeks to *improve and expand existing research in emerging areas of information science and technology with global implications*. It focuses on major technological breakthroughs with particular emphasis on the accelerating principles and concepts of applying mathematical logic, reasoning, and inference techniques with the blending of Boolean Satisfiability (SAT) tools to address practical applications of biocomputing, software engineering, cognitive science, quantum informatics, information security.

Researchers, academicians, industry experts and students will find this special issue an important reference source for advanced information technological applications and developments. It attempts to bring together concepts and methods from varied disciplines and to develop techniques and tools to aid in the handling of the information from the key application areas that can be leveraged such that results of multidisciplinary research, regardless of the chosen focus area, may further integrate state-of-the-art information technologies in applications of computing to the sciences and engineering. Technical papers are invited on the following topics, but not limited to

Methods, Techniques and Tools

- Satisfiability (including pseudo-boolean satisfiability, satisfiability modulo theory, answer set programming, solvers)
- Combinatorial concepts and optimization techniques
- Formal methods

Key Applications

- Systems biology
- Cognitive informatics
- Evolutionary computation
- Grid computing
- Semantic Web
- Quantum informatics
- DNA computing
- Cryptography

Important Dates

Submission Deadline: February 15, 2011
Acceptance Notification: April 26, 2011
Final Manuscript Due: May 31, 2011
Tentative Publication Date: 4th Issue, 2011

Submission

Prospective authors should submit high quality and original contributions that have not appeared, nor are under consideration, in any other journals. Submissions should follow the guidelines of JAIT, which can be found at: <http://www.academypublisher.com/jait/forauthors.html>. Manuscripts should be submitted electronically to the corresponding Guest Editor, Dr. Ateet Bhalla, by E-mail at: bhalla.ateet@gmail.com.

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