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DESCRIPTION

*Theoretical Computer Science* is mathematical and abstract in spirit, but it derives its motivation from practical and everyday computation. Its aim is to understand the nature of *computation* and, as a consequence of this understanding, provide more efficient methodologies. All papers introducing or studying mathematical, logic and formal concepts and methods are welcome, provided that their motivation is clearly drawn from the field of *computing*.

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The second section, `Logic, semantics and theory of programming', is devoted to formal methods to check properties of programs or implement formally described languages; it contains all papers dealing with semantics of sequential and parallel *programming languages*. All formal methods treating these problems are published in this section, including rewriting techniques, abstract data types, automatic theorem proving, calculi such as SCP or CCS, Petri nets, new logic calculi and developments in categorical methods.

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*Theoretical Computer Science* will now publish high-quality advanced introductions. Advanced introductions, which are by invitation only, should cover a focused topic within the scope of TCS at a
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AUDIENCE

Researchers in the Theoretical Aspects of Computer Science.

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To find out more, please visit the Preparation section below.

Introduction
Theoretical Computer Science is mathematical and abstract in spirit, but it derives its motivation from practical and everyday computation. All papers introducing or studying mathematical, logic and formal concepts and methods are welcome, provided that their motivation is clearly drawn from the field of computing.

Papers published in Theoretical Computer Science are grouped in three sections according to their nature. Algorithms, automata, complexity and games, or TCS-A, is devoted to the study of algorithms and their complexity using analytical, combinatorial or probabilistic methods. Logic, semantics and theory of programming, or TCS-B, is devoted to formal methods to check properties of programs or implement formally described languages and contains all papers dealing with semantics of sequential and parallel programming languages. Natural Computing, or TCS-C, is devoted to the study of computing occurring in nature and computing inspired by nature. This section is focused on the theoretical aspects of natural computing with clear relevance to computing. Among others, it will contain papers dealing with the theoretical issues in evolutionary computing, neural networks, molecular computing, and quantum computing. Any queries about submissions and peer review should be addressed to the TCS editorial office: tcs@elsevier.com.

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Referees are matched to the paper according to their expertise. We welcome suggestions for referees from the author though these recommendations may or may not be used.

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- Fits the scope of Theoretical Computer Science
- Is clearly presented, including linguistic quality
- Correctly references previous relevant work

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