



# INFORMATION PROCESSING LETTERS

Devoted to the Rapid Publication of Short Contributions to Information Processing

## AUTHOR INFORMATION PACK

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### DESCRIPTION

The aim of *Information Processing Letters* is to allow rapid dissemination of interesting results in the field of **information processing** in the form of short, concise papers. To this end, [submissions](#) should not exceed the equivalent of nine A4 or 81/2-by-11 double-spaced typed pages. The scope of the journal is indicated by the list of keywords found below. This list is periodically updated by inserting items most frequently proposed by the contributors and removing the least popular entries, under the advisement of the [Board of Editors](#). Submissions are encouraged both on theoretical work and on experimental work.

The scope of *IPL* is suggested by the following alphabetical list of keywords:

Algorithms – analysis of algorithms – approximation algorithms – automatic theorem proving – combinatorial problems – compilers – computational complexity – computational geometry – concurrency – cryptography – databases – data structures – design of algorithms – distributed computing – distributed systems – fault tolerance – formal languages – formal methods – formal semantics – functional programming – graph algorithms – information retrieval – interconnection networks – on-line algorithms – operating systems – parallel algorithms – parallel processing – performance evaluation – program correctness – program derivation – programming calculi – programming languages – program specification – randomized algorithms – real-time systems – safety/security in digital systems – scheduling – software design and implementation – software engineering – specification languages – theory of computation.

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### AUDIENCE

Computer Scientists (in the broadest sense), Computer and Systems Programmers.

## IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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ABI/Inform  
Information Science Abstracts  
ACM Computing Reviews  
Cambridge Scientific Abstracts  
Current Contents/Engineering, Computing & Technology  
Engineering Index  
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## GUIDE FOR AUTHORS

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### INTRODUCTION

The aim of *Information Processing Letters* is to allow rapid dissemination of interesting results in the field of information processing in the form of short, concise papers. To this end, submissions should not exceed the equivalent of nine A4 or 8 1/2-by-11 pages, with wide margins and double line-spacing, i.e., approximately 3000 words. An Editor's decision to reject a contribution because of its length is final.

The scope of the journal is indicated by the following alphabetical list of main IPL keywords:

Algorithms – analysis of algorithms – approximation algorithms – automatic theorem proving – combinatorial problems – compilers – computational complexity – computational geometry – concurrency – cryptography – databases – data structures – design of algorithms – distributed computing – distributed systems – fault tolerance – formal languages – formal methods – formal semantics – functional programming – graph algorithms – information retrieval – interconnection networks – on-line algorithms – operating systems – parallel algorithms – parallel processing – performance evaluation – program correctness – program derivation – programming calculi – programming languages – program specification – randomized algorithms – real-time systems – safety/security in digital systems – scheduling – software design and implementation – software engineering – specification languages – theory of computation.

This list is periodically updated by inserting items most frequently proposed by the contributors and removing the least popular entries, under the advisement of the Board of Editors.

### IPL Editors' Domains of Competency

For each IPL keyword, the table below lists Editors who prefer handling submissions classified by that keyword. Choosing an Editor indicated in the table may lead to a shorter processing time for your submission. Within each group, the Editors are listed alphabetically; no order of preference is implied.

- o **Algorithms:** Chao ,Chrobak, Doerr, Uehara, Wong, Wu, Xu
- o **Analysis of algorithms:** Chao ,Chrobak, Doerr, Pilipczuk, Uehara, Wong, Wu, Xu
- o **Approximation algorithms:** Chrobak, Doerr, Pilipczuk, Wong, Wu, Xu
- o **Automatic theorem proving:** Vigan
- o **Combinatorial problems:** Chao ,Chrobak, Doerr, Pilipczuk, Wong, Xu
- o **Computational complexity:** Pilipczuk, Uehara, Meir
- o **Computational geometry:** Uehara, Wu, Xu
- o **Concurrency:** Chockler, Fiadeiro, Fisher
- o **Cryptography:** Barreto
- o **Databases:** Wijssen
- o **Data structures:** Chao ,Chrobak, Pilipczuk, Uehara, Wong, Xu, Gawrychowski
- o **Design of algorithms:** Chao ,Chrobak, Doerr, Uehara, Wong, Wu, Xu
- o **Distributed computing:** Chockler, Doerr, Fisher, Wong
- o **Distributed systems:** Chockler
- o **Fault tolerance:** Chockler, Wong
- o **Formal languages:** Chatterjee
- o **Formal methods:** Chatterjee, Fiadeiro, Vigan
- o **Formal semantics:** Fiadeiro
- o **Graph algorithms:** Chao ,Chrobak, Doerr, Pilipczuk, Uehara, Wong, Gawrychowski
- o **Information retrieval:** Chao ,W.-L. Hsu, Wijssen
- o **Interconnection networks:** Chrobak, Chockler, Xu
- o **On-line algorithms:** Chrobak, Doerr, Pilipczuk, Wong
- o **Parallel algorithms:** Chao ,Chrobak, Fisher, Wong
- o **Parallel processing:** Fisher
- o **Performance evaluation:** Wong, Wu, Xu
- o **Program correctness:** Chatterjee, Fiadeiro, Vigan
- o **Program derivation:** Fiadeiro, Vigan
- o **Program specification:** Fiadeiro, Vigan
- o **Randomized algorithms:** Chrobak,Doerr, Pilipczuk, Wong, Xu
- o **Real-time systems:** Fisher
- o **Safety/security in digital systems:** Vigan
- o **Scheduling:** Chao ,Chrobak, Fisher, Wong, Xu

- o **Software design and implementation:** Fiadeiro
- o **Software engineering:** Fiadeiro
- o **Specification languages:** Fiadeiro, Vigan
- o **Theory of computation:**

### **Submission checklist**

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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

### *Results*

Results should be clear and concise.

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This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

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The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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- Avoid very general keywords which become meaningless once in a keyword list. Examples to avoid are "action", "computer", "mathematics". Check whether the keywords as a whole describe the outlines of the article.
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### *Electronic artwork*

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[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

Reference to a dataset:

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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