

Call for Papers

ICFP 2009: International Conference on Functional Programming

Edinburgh, Scotland, 31 August – 2 September 2009

<http://www.cs.nott.ac.uk/~gmh/icfp09.html>

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Important Dates (at 20:00 UTC)

Submission:	2 March 2009
Author response:	21–23 April 2009
Notification:	5 May 2009
Final papers due:	8 June 2009

Special Journal Issue

There will be a special issue of the Journal of Functional Programming with papers from ICFP 2009. The program committee will invite the authors of select accepted papers to submit a journal version to this issue.

ICFP 2009 seeks original papers on the art and science of functional programming. Submissions are invited on all topics from principles to practice, from foundations to features, from abstraction to application. The scope includes all languages that encourage functional programming, including both purely applicative and imperative languages, as well as languages with objects or concurrency. Particular topics of interest include

- *Language Design*: type systems; concurrency and distribution; modules; components and composition; metaprogramming; relations to object-oriented or logic programming; interoperability
- *Implementation*: abstract machines; compilation; compile-time and run-time optimization; memory management; multi-threading; exploiting parallel hardware; interfaces to foreign functions, services, components or low-level machine resources
- *Software-Development Techniques*: algorithms and data structures; design patterns; specification; verification; validation; proof assistants; debugging; testing; tracing; profiling
- *Foundations*: formal semantics; lambda calculus; rewriting; type theory; monads; continuations; control; state; effects
- *Transformation and Analysis*: abstract interpretation; partial evaluation; program transformation; program calculation; program proof
- *Applications and Domain-Specific Languages*: symbolic computing; formal-methods tools; artificial intelligence; systems programming; distributed-systems and web programming; hardware design; databases; XML processing; scientific and numerical computing; graphical user interfaces; multimedia programming; scripting; system administration; security; education
- *Functional Pearls*: elegant, instructive, and fun essays on functional programming

The conference also solicits *Experience Reports*, which are short papers that provide evidence that functional programming really works or describe obstacles that have kept it from working in a particular application.

Abbreviated instructions for authors

By Monday, 2 March 2009, 20:00 UTC, submit an abstract of at most 300 words and a full paper of at most 12 pages (4 pages for an Experience Report), including bibliography and figures. The deadline will be strictly enforced and papers exceeding the page limits will be summarily rejected. Authors have the option to attach a separate file of *supplementary material* to a submission, on the understanding that reviewers may choose not to look at it.

A submission will be evaluated according to its relevance, correctness, significance, originality, and clarity. It should explain its contributions in both general and technical terms, clearly identifying what has been accomplished, explaining why it is significant, and comparing it with previous work. The technical content should be accessible to a broad audience. Functional Pearls and Experience Reports are separate categories of papers that need not report original research results and must be marked as such at the time of submission. Detailed guidelines on both categories are on the conference web site.

Each submission must adhere to SIGPLAN's republication policy, as explained on the web at <http://www.acm.org/sigplan/republicationpolicy.htm>.

Proceedings will be published by ACM Press. Authors of accepted submissions are expected to transfer the copyright to ACM. Presentations will be videotaped and released online if the presenter consents by signing an additional permission form at the time of the presentation.

Formatting: Submissions must be in PDF format printable in black and white on US Letter sized paper and interpretable by Ghostscript. If this requirement is a hardship, make contact with the program chair at least one week before the deadline. Papers must adhere to the standard ACM conference format: two columns, nine-point font on a ten-point baseline, with columns 20pc (3.33in) wide and 54pc (9in) tall, with a column gutter of 2pc (0.33in). Suitable document templates for L^AT_EX and Word are available from SIGPLAN at <http://www.acm.org/sigs/sigplan/authorInformation.htm>.

Submission: Electronically at <https://www.softconf.com/a/icfp09>.

Author response: Authors will have a 48-hour period, starting at 20:00 UTC on 21 April 2009, to read and respond to reviews.