PRINCIPLES AND PRACTICE OF CONSTRAINT PROGRAMMING

edited by Vijay Saraswat and Pascal Van Hentenryck This collection of twenty-three original papers represents the first effort to bring together the work of constraint programming researchers scattered across multiple disciplines and around the world.

500 pp. \$49.95

ENABLING TECHNOLOGIES FOR PETAFLOPS COMPUTING

Thomas Sterling, Paul Messina, and Paul H. Smith This book is a synthesis of over 60 contributors in the areas of computer architecture, device technology (including optical computing and superconductors), applications, software, and public policy. It argues that building a petaFLOP computer will require radically different hardware and software technologies as well as a strong commitment on the part of the federal government.

Scientific and Engineering Computation series 200 pp. \$26.95 paperback

The MIT Press

55 Hayward Street, Cambridge, MA 02142 & Fitzroy House, 11 Chenies Street, London WC1E 7ET, England To order call toll-free 1-800-356-0343 (US & Canada) or (617) 625-8569. MasterCard & VISA accepted. Prices will be higher outside the U.S and are subject to change without notice.

INSTRUCTIONS TO AUTHORS

Scope

Papers may describe original technical work, survey an area, or present a tutorial; and may be either short or long. Anything related to functional programming is of interest, including: *foundations* (semantics, abstract interpretation, lambda calculi, rewriting, logic, type theory, category theory); *implementation* (compilation, architectures, parallelism, garbage collection, I/O, debugging, profiling); *linguistics* (pure and impure language features, non-determinism, side effects, logical variables, relation to other programming paradigms, proofs about programs, program transformation, program synthesis, partial evaluation); *applications* (applications programs, practical experience, programming techniques, prototyping).

Book Reviews

Books for review, or suggestions for reviews, should be sent to the reviews editor, Philip Wadler (address on inside front cover).

Capsule reviews

Every published paper is accompanied by a capsule review written by one of the referees. A capsule review differs from an abstract in that it is more free to reflect value judgements, helping to set the context or emphasise the importance of a contribution.

Submission of manuscripts

Papers may be submitted to any of the editors. E-mail and postal addresses for the editors appear on the inside front cover. Electronic submission is encouraged: send e-mail containing a copy of the paper in Postscript form. Any method of producing Postscript is fine, but TeX is recommended as it can also be used for typesetting the final paper; see below. Alternatively, post four hard copies of the paper. Submissions should be accompanied by the author's mailing address, telephone number, and, if possible, an electronic mailing address. Papers in the same form should not be submitted or published elsewhere, and authors should inform the editor of any related papers submitted or published elsewhere. Upon acceptance of a paper, the author will be asked to transfer copyright to the publisher.

Electronic manuscripts

The publisher would like to encourage the submission of manuscripts written in LaTeX which can be used for direct typesetting. Authors using LaTeX may wish to use the JFP style file which can be obtained using anonymous FTP from the Internet address ftp.cup.cam.ac.uk. Retrieve from directory /pub/texarchive/journals/latex/jfp the style file jfp.sty and the user guide jfpguide.tex. In case of difficulties, there is a help-line available via e-mail, please contact texline@cup.cam.ac.uk. Alternatively, authors may use 'article style'. The publisher may be able to use Plain TeX and AMSTeX for typesetting if submitted by authors. On final acceptance of a paper, send the TeX source code to the editor by e-mail, or by posting a disc. Discs should be in Apple Mac or PC format and will not be returned. The publisher reserves the right to typeset any article by conventional means if the author's TeX code presents problems in production.

Layout of manuscripts

Manuscripts should begin with an abstract of not more than 300 words. Please avoid footnotes whenever posssible. Papers should conform to a good standard of English prose; please consult a style guide such as 'The Elements of Style' by Strunk and White, Macmillan, New York. It is encouraged to present programs in one of two styles: either with identifiers in italic and keywords in bold, or entirely in a fixed-width teletype font. Do not begin a sentence with a symbol or identifier name.

References

The Harvard system of references should be used. Citations are by author's surname and year of publication, and may stand either as a noun phrase (e.g., "Curry (1933)") or as a parenthetical note (e.g., "(Curry 1933)"). List references at the end of the text in alphabetical order. A typical entry is: Curry, H. B. (1933) Apparent variables from the standpoint of mathematical logic, *Ann. of Math.*, **34** (2): 381–404.

Illustrations

Figures should be drawn in indian ink on good quality white paper or produced by computer to comparable quality. Wherever possible they will be reproduced with the author's original lettering. Originals of figures should not be sent until the paper has been accepted. A list of captions for figures should be attached separately.

Proofreading

Please submit papers in their final form. Typographical or factual errors only may be changed at the proof stage. Authors may be charged for correction of non-typographical errors. No page charge is made.

Offprints

25 offprints of each article will be supplied free to each first named author. Extra offprints may be purchased from the publisher.

Please contact the editors for clarification of any of the above points.

COPYING

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA. 01923. Organisations in the USA who are also registered with the C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$11.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0956-7968/95 \$11.00 + .10.

Organisations authorised by the Copyright Licensing Agency may also copy material subject to the usual conditions. *ISI Tear Service*, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorised to supply single copies of separate articles for private use only.

For all other use, permission should be sought from Cambridge or the American branch of Cambridge University Press.

JOURNAL OF Functional Programming

VOLUME 5 PART 2 APRIL 1995

CONTENTS

The virtues of eta-expansion	
C. BARRY JAY AND NEIL GHANI	135
A Debugger for Standard ML	
ANDREW TOLMACH AND ANDREW W. APPEL	155
Type Reconstruction for Type Classes	
TOBIAS NIPKOW AND CHRISTIAN PREHOFER	201
Lexical profiling: theory and practice	
CHRIS CLACK, STUART CLAYMAN AND DAVID PARROTT	225

Printed in Great Britain by the University Press, Cambridge



https://coi.org/10.1017/S0956796800001295 Published online by Cambridge University Press

