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Victor Malyshkin (Ed.)

Parallel Computing Technologies

10th International Conference, PaCT 2009
Novosibirsk, Russia, August 31-September 4, 2009
Proceedings

Volume Editor

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Library of Congress Control Number: 2009931640

CR Subject Classification (1998): D.2, D.3.2, F.1.2, G.1, G.4, I.6.8, C.1.4, C.2.1

LNCS Sublibrary: SL 1 – Theoretical Computer Science and General Issues

ISSN 0302-9743

ISBN-10 3-642-03274-5 Springer Berlin Heidelberg New York

ISBN-13 978-3-642-03274-5 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 12724918 06/3180 5 4 3 2 1 0

Preface

The PaCT-2009 (Parallel Computing Technologies) conference was a four-day event held in Novosibirsk. This was the tenth international conference to be held in the PaCT series. The conferences are held in Russia every odd year. The first conference, PaCT 1991, was held in Novosibirsk (Academgorodok), September 7–11, 1991. The next PaCT conferences were held in Obninsk (near Moscow), August 30 to September 4, 1993; in St. Petersburg, September 12–15, 1995; in Yaroslavl, September 9–12, 1997; in Pushkin (near St. Petersburg), September 6–10, 1999; in Academgorodok (Novosibirsk), September 3–7, 2001; in Nizhni Novgorod, September 15–19, 2003; in Krasnoyarsk, September 5–9, 2005; in Pereslavl-Zalessky, September 3–7, 2007. Since 1995 all the PaCT Proceedings have been published by Springer in the LNCS series. PaCT-2009 was jointly organized by the Institute of Computational Mathematics and Mathematical Geophysics of the Russian Academy of Sciences (RAS) and the State University of Novosibirsk. The purpose of the conference was to bring together scientists working on theory, architecture, software, hardware and the solution of large-scale problems in order to provide integrated discussions on parallel computing technologies. The conference attracted about 100 participants from around the world. Authors from 17 countries submitted 72 papers. Of those submitted, 34 were selected for the conference as regular papers; there were also 2 invited papers. In addition there were a number of posters presented. All the papers were internationally reviewed by at least three referees. A demo session was organized for the participants. Different tools were submitted for demonstration and for the tutorial, one of them being WinAlt (Windows Animated Language Tool) for description. We would like to extend many thanks to our sponsors: the Russian Academy of Sciences, the Russian Fund for Basic Research, IBM, NVIDIA, HP and Microsoft for their financial support.

September 2009

Victor Malyshev

Organization

PaCT 2009 was organized by the Supercomputer Software Department, Institute of Computational Mathematics and Mathematical Geophysics, Siberian Branch, Russian Academy of Science (SB RAS) in cooperation with Novosibirsk National University and Novosibirsk State Technical Universities.

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