

**Euro-EDUPAR - Workshop on Parallel
and Distributed Computing Education
for Undergraduate Students**

Workshop on Parallel and Distributed Computing Education for Undergraduate Students (Euro-EDUPAR)

Workshop Description

Parallel and Distributed Computing (PDC) is omnipresent. It is in all the computational environments, from mobile devices and laptops to clusters, data centers and supercomputers. It becomes now vital to train new generations of scientists and engineers in the use of these environments: PDC-related topics must be incorporated in Computer Science (CS) and Computer Engineering (CE) programs. In 2010 the IEEE Computer Society Technical Committee on Parallel Processing launched the Curriculum Initiative on Parallel and Distributed Computing, with Core Topics for Undergraduates, and in 2011 started the workshop EduPar. Motivated by differences in education in different parts of the world, Euro-EDUPAR aims to analyze PDC Education in a European context. The 4th European Workshop on Parallel and Distributed Computing Education for Undergraduate Students (Euro-EDUPAR) invited unpublished manuscripts on topics pertaining to the teaching of PDC-related topics in the CS and CE curricula as well as in Computational Science with PDC or HPC concepts, with emphasis on European undergraduate teaching.

Eight papers were submitted and, following a review of each paper by at least four members of the Program Committee, four papers were accepted for presentation. The final program also featured a keynote presentation by William Gropp from University of Illinois at Urbana-Champaign on thinking about parallelism and programming. Moreover, Arnold Rosenberg from University of Massachusetts gave an update on the curriculum guidelines of the NSF-supported Center for Parallel and Distributed Computing Curriculum Development and Educational Resources (CDER). Martina Barnas from Indiana University Bloomington chaired a panel on the question of gender balance in our field, leading to a lively discussion among the audience and three further panelists, including Valeria Cardellini from University of Rome Tor Vergata, Arnold Rosenberg from University of Massachusetts, and Denis Trystram from Grenoble Institute of Technology. Overall, the workshop generated good interest and was held in a pleasant environment thanks to the great support of the Euro-Par 2018 organizers.

Organization

Steering Committee

Henri E. Bal
Alexey Lastovetsky
Christian Lengauer

Vrije Universiteit, The Netherlands
University College Dublin, Ireland
University of Passau, Germany

Pierre Manneback	University of Mons, Belgium
Sushil K. Prasad	Georgia State University, USA
Yves Robert	École Normale Supérieure de Lyon, France
Arnold L. Rosenberg	University of Massachusetts, USA
Rizos Sakellariou	University of Manchester, UK
Cristina Silvano	Politecnico di Milano, Italy
Paul G. Spirakis	University of Liverpool, UK
Denis Trystram (Chair)	Grenoble Institute of Technology, France
Mateo Valero	Barcelona Supercomputing Center, Spain
Vladimir Voevodin	Moscow State University, Russia

General Co-chairs

Denis Trystram	Grenoble Institute of Technology, France
Arnold L. Rosenberg	University of Massachusetts, USA

Program Co-chairs

Felix Wolf	Technische Universität Darmstadt, Germany
Rizos Sakellariou	University of Manchester, UK

Program Committee

Jorge G. Barbosa	University of Porto, Portugal
Marian Bubak	AGH Krakow PL and University of Amsterdam, The Netherlands
Aurélien Cavelan	University of Basel, Switzerland
Sunita Chandrasekaran	University of Delaware, USA
Gennaro Cordasco	Universita' della Campania "L. Vanvitelli", Italy
Efstratios Gallopoulos	University of Patras, Greece
Chryssis Georgiou	University of Cyprus, Cyprus
Domingo Giménez	University of Murcia, Spain
Thilo Kielmann	Vrije Universiteit Amsterdam, The Netherlands
Alexey Lastovetsky	University College Dublin, Ireland
Vania Marangozova-Martin	Grenoble University, France
Tomas Margalef	Universitat Autònoma de Barcelona, Spain
Svetozar Margenov	Bulgarian Academy of Sciences, Bulgaria
Lena Oden	Forschungszentrum Jülich, Germany
Marcin Paprzycki	Polish Academy of Sciences, Poland
Dana Petcu	West University of Timisoara, Romania
Geppino Pucci	DEI - Università di Padova, Italy
Erven Rohou	Inria, France

Emil Slusanschi

Juan Touriño

Jesper Larsson Träff

Vladimir Voevodin

University Politehnica of Bucharest, Romania

University of A Coruna, Spain

Vienna University of Technology, Austria

Moscow State University, Russia