PARMA-DITAM Workshop CALL FOR PAPERS

PARMA-DITAM 2022

PARMA 2022: 13th Workshop on Parallel Programming and Run-Time Management Techniques for Many-core Architectures

DITAM 2022: 11th Workshop on Design Tools and Architectures for Multi-Core Embedded Computing Platforms

The current trend towards many-core and the emerging accelerator-based architecture requires a global rethinking of software and hardware design, which turn out to be more than ever before strongly entangled.

The PARMA-DITAM workshop focuses on many-core architectures, parallel programming models, design space exploration, tools and run-time management techniques to exploit the features and boost the performance of such (possibly heterogeneous, (re-)programmable and/or (re-)configurable) many-core processor architectures from embedded to high performance computing platforms and cyber physical systems.

TOPIC AREAS

The workshop will have six main topics:

- T1: Parallel programming models and languages, compilers and virtualization techniques
- T2: Runtime modelling, monitoring, adaptivity, and management
- T3: Runtime trade-off execution, power management, and memory management
- T4: Heterogeneous and reconfigurable many-core: architectures and design space exploration
- T5: Methodologies, design tools, and high level synthesis for many-core architectures
- T6: Parallel applications for many-core platforms
- T7: Case studies, success stories and applications applying T1-T6

ORGANIZATION

General Chair: Stefano Cherubin, Edinburgh Napier University, s.cherubin@napier.ac.uk
Program Co-Chair: Francesca Palumbo, University of Sassari, f.palumbo@uniss.it
Program Co-Chair: João Bispo, Universidade do Porto, jbispo@fe.up.pt
Publicity Chair: Amir H. Ashouri, Huawei, amirhossein.ashouri@gmail.com
Web Chair: Daniele Cattaneo, Politecnico di Milano, daniele.cattaneo@polimi.it
Steering Committee:

- Giovanni Agosta, Politecnico di Milano, agosta@acm.org
- João M.P. Cardoso, Universidade do Porto, jmpc@acm.org
- William Fornaciari, Politecnico di Milano, william.fornaciari@polimi.it
- Michael Hübner, Brandenburg University of Technology Cottbus-Senftenberg, huebner@b-tu.de
- Cristina Silvano, Politecnico di Milano, cristina.silvano@polimi.it
- Dimitrios Soudris, National Technical University of Athens, dsoudris@microlab.ntua.gr

PAPER SUBMISSION INSTRUCTIONS

Proceedings of the workshop will be published in the **ACM International Conferences Proceedings Series** (under approval).

Papers should be submitted electronically through the workshop website. The review process will be **double-blind**.

Electronic paper submission requires a full paper, up to 6 double column ACM format pages, including figures and references. Papers should be submitted in PDF format. Please use the following template when preparing your manuscript: http://www.acm.org/sigs/publications/proceedings-templates

IMPORTANT DATES

Paper submission deadline:	23 November 2021	23:59 UTC
Notification of acceptance:	19 December 2021	
Camera ready version:	10 January 2022	
Workshop:	19 January 2022	(co-located with HiPEAC)

parma-ditam-workshop.github.io