PARMA-DITAM Workshop PROGRAM

PARMA-DITAM 2021

PARMA 2021: 12th Workshop on Parallel Programming and Run-Time Management Techniques for Many-core Architectures

DITAM 2021: 10th Workshop on Design Tools and Architectures for Multi-Core Embedded Computing Platforms

Location: zoom webinair online event

Tuesday, 19 January 2021

CET time zone

10:00 - 10:10 PARMA-DITAM Opening session

Chair: José Flich, UPV

10:10 - 11:00 [Invited Talk] HPC application cloudification: the streamflow toolkit

Marco Aldinucci, UniTo

Chair: Stefano Cherubin, Codeplay

11:00 - 11:30 Coffee Break

11:30 - 12:20 [Invited Talk] Open-source and High-perfomance Computing Platforms for Safety-Critical Applications

Carles Hernandez Luz, UPV

Chair: João Bispo, UPorto

12:20 - 13:00	Paper Session A
	Chair: Dimitrios Soudris, NTUA
12:20 - 12:40	Towards Adaptive multi-Alternative Process Network
	<u>Hasna Bouraoui</u> , Chadlia Jerad and Jeronimo Castrillon
12:40 - 13:00	The Impact of Precision Tuning on Embedded Systems Performance: A Case Study on Field-Oriented Control
	Gabriele Magnani, Daniele Cattaneo, <u>Michele Chiari</u> and Giovanni Agosta

13:00 - 14:00 Workshop break - HiPEAC keynote

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14:00 - 15:00 [Keynote] Building an open, safe, accessible AI & HPC ecosystem

Andrew Richards, Codeplay

Chair: Giovanni Agosta, PoliMi

15:00 - 16:00	Paper Session B
	Chair: José Flich, UPV
15:00 - 15:20	BifurKTM: Approximately Consistent Distributed Transactional Memory for GPUs
	Samuel Irving, <u>Lu Peng</u> , Costas Busch and Jih-Kwon Peir
15:20 - 15:40	Resource Aware GPU Scheduling in Kubernetes Infrastructure
	<u>Aggelos Ferikoglou</u> , Dimosthenis Masouros, Achilleas Tzenetopoulos, Sotirios Xydis and Dimitrios Soudris
	and Dimitries Sedans
15:40 - 16:00	Applying Parallel Processing on TF-IGM
	Joran Cornelisse

16:00 - 16:10 Closing and Final wrap-up

Chair: João Bispo, UPorto

Paper presentations

We invite authors of accepted papers to prepare presentations with slides. Each paper presentation is scheduled to last at most 20 minutes. Time slot includes:

- 15 min oral presentation
- 3 min Q&A
- 2 min technical setup & speaker introduction by Session chair.

Presenters should provide a short (no more than 3 lines) biography introduction to be handed to the Session chair at the beginning of the Session.

We additionally encourage presenters to prepare a PDF version of their presentation to be uploaded on the workshop website.