# 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**

The current trend towards many-core and the emerging accelerator-based architecture requires a global rethinking of software and hardware design. The PARMA-DITAM workshop focuses on the advanced many core architectures, accelerator based many-core system-on-chips, programming models, design space exploration and tools and run-time management techniques to exploit the features of such (heterogeneous) many-core processor architectures from embedded to high-performance computing platforms.

## TOPIC AREAS

The workshop will have six main topics:

- T1: Programming models and languages, compilers and virtualization techniques
- T2: Runtime adaptivity, runtime management, power management and memory management
- T3: Heterogeneous and reconfigurable many-core architectures, accelerator-based architectures, and design space exploration
- T4: Design tools and methodologies for many-core architectures
- T5: Parallel applications for many-core platforms
- T6: Architectures and compiler techniques to accelerate deep neural networks, neuromorphic accelerators

## ORGANIZATION

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## PAPER SUBMISSION INSTRUCTIONS

Proceedings of the workshop will be published* in the **Dagstuhl OASIcs: OpenAccess Series in Informatics**. Proceedings will be indexed by Scopus, Google Scholar, and all the major scientific databases.

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 10 OASIcs format pages** of running text, including title, abstract, figures, tables, and any appendix. References are excluded from this limit.

Papers should be submitted in PDF format. Please use the following template when preparing your manuscript: https://submission.dagstuhl.de/documentation/authors#oasics

* currently under approval.

## IMPORTANT DATES

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| **Paper submission deadline**: | 13 November | 2020 | 23:59 UTC |
| **Notification of acceptance**: | 15 December | 2020 | |
| **Camera ready version**: | 21 December | 2020 | |
| **(Virtual) Workshop**: | 19 January | 2021 | (co-located with HiPEAC Conference) |

parma-ditam-workshop.github.io