



Special Issue on SAMOS 2022

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SAMOS is a conference with a unique format. It brings together every year researchers from both academia and industry on the topic of embedded systems in the perfect setting of the island of Samos. In 2021 the conference was held virtually due to the COVID-19 pandemic, but in 2022 SAMOS took place in person during July 3 – 7.

The SAMOS 2022 keynotes covered a wide range of embedded systems design aspects, including talks on future microprocessors by Yale Patt, University of Texas at Austin, extreme-scale virtual screening by Cristina Silvano, Polimi, and power monitors by William Fornaciari, Polimi. A specific focus was also put on machine learning and memory systems through tutorials by Michele Saad, Adobe, and Onur Mutlu, ETH Zurich.

The SAMOS 2022 proceedings comprise a selection of publications targeting either systems themselves - through their applications, architectures, and underlying processors – or methods created to automate their design. A total of 44 papers were submitted to the conference and 21 papers were selected by the Program Committee to be presented at SAMOS 2022 (48% acceptance rate). Two special sessions were included in the program to gather novel work on security and to report recent results of European projects.

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From these papers the best ones were invited to contribute an extended version of their paper in a special issue in the International Journal of Parallel Programming (IJPP).

The SAMOS 2022 committee would like to acknowledge the generous support of the many reviewers who contributed to the quality of these selected papers. We hope that you enjoy reading them!

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