

# Foreword

Welcome to CASES 2008. For the third consecutive year, CASES is proud to be a part of ESWeek with EMSOFT and CODES-ISSS, plus numerous workshops and tutorials.

Once again, CASES has a strong program with 27 technical paper presentations and 2 keynote addresses, one from Professor Margaret Martonosi of Princeton and one from Bill Athas of Apple.

82 paper abstracts were received which resulted in 64 final submissions: 33 from North America, 20 from Europe, and 11 from Asia. From these 64 submissions, 27 papers were accepted at a virtual program committee meeting held on June 6. The committee was dedicated in its work, both before and during the meeting. With the help of numerous external reviewers listed elsewhere in these proceedings, all but two papers received five or more reviews. Papers were solicited under 15 categories, and here is the breakdown of the number of papers submitted in each category, and how many papers in each category were accepted:

<u>Accepts</u>	<u>Total</u>	<u>Topic</u>
3	9	Reconfigurable embedded computing systems
4	8	Low-power architectures and compilation, power vs. performance tradeoffs
4	8	Compilation techniques that focus on embedded architectures
3	7	Multicore for embedded: hardware and software issues
2	7	Memory management, smart caches and compiler controlled memories
3	6	Profiling, measurement, and analysis techniques of embedded applications
2	5	Novel architectures and micro-architectures for embedded systems
1	2	Nanoscale challenges and embedded computing
1	3	Dynamic compilation and managed runtime envs for embedded systems
1	3	Application-specific and domain-specific embedded systems
0	2	Validation, verification, and debugging techniques for embedded software
1	1	VLSI and circuit techniques for embedded system design
1	1	Design, specification, and synthesis of embedded systems
1	1	Customizable processors and digital signal processors
0	1	Ins-level parallelism for embedded, including VLIW, EPIC and superscalar

In addition to the fine work by the committee and external reviewers, we would like to thank the Nikil Dutt and Christoph Kirsch – the General Chairs of the ESWeek – for their frequent help and in keeping things running smoothly and efficiently. We also thank Philipp Lucas for his repeated help with the START reviewing system and his many helpful suggestions and the utilities he wrote. Nate Clark did a fine job in laying out and maintaining the website, and was very prompt and efficient in making updates. Frank Vahid provided helpful guidance about assembling the proceedings for publication. Finally we thank Trevor Mudge, Krishna Palem and the rest of the Steering Committee for entrusting this job to us, and for providing guidance and assistance on numerous occasions.

We hope that you enjoy the conference.

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