ANNOUNCEMENT AND CALL FOR PAPERS

Reed-Muller Workshop 2023

May 24, 2023, Fully Virtual or Hybrid Workshop

After the International Symposium on Multiple-Valued Logic,
May 22-24, 2023, Matsue, Shimane Prefecture, Japan

The goal of the Reed-Muller 2023 Workshop is to provide a forum for researchers to exchange and discuss research ideas in the following and related areas:

- Graph-based representations of logic functions: BDD, MDD, BMD, EVBDD, etc.
- EXOR-based representations
- Emerging Technologies: quantum informatics, reversible computing, nano-technology, etc.
- Spectral representation of switching functions
- Graph functions, bent functions, and cryptographic applications
- Implementation in silicon (ASICs, SoCs, FPLDs, FPGAs, ...)
- Applications of the Reed-Muller transform, including circuit design, processing, etc.
- Representations for quantum computing, nano-technology, and molecular scale computing
- Cryptographically-significant functions and other applications in cybersecurity

Paper Submission

Original research, tutorial or survey papers are invited for submission by March 15, 2023   using Easy Chair (https://easychair.org/conferences/?conf=rm2023). Please use IEEE double-column page format. There is no page limit as the Workshop record will be distributed electronically to registrants. Six to eight pages is suggested. Templates can be found at http://www.ieee.org/conferences_events/conferences/publishing/templates.html. Please use 'conference' style and US Letter paper size (8.5 by 11 in.).

NOTE: The Workshop papers will only be distributed to Workshop attendees. The copyright remains with the authors.

Registration: Free, please register by sending an email to sasao@ieee.org by May 15, 2023.

Important Dates

- Full paper submission: March 15, 2023
- Notification of acceptance: April 15, 2023
- Camera Ready Paper and Pre-recorded Video Due: May 7, 2023
- Workshop: May 24, 2023

Program Committee

- D. Michael Miller (PC Chair), Canada
- Shinobu Nagayama (Local Chair), Japan
- Tsutomu Sasao (General Chair), Japan
- Mitchell A. Thornton (Publicity Chair), USA
- (*incomplete list, others will be added*)

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The workshop has been previously held in Fully Virtual in 2021, Fredericton (Canada) in 2019, Toyama (Japan) in 2013, Tuusula (Finland) in 2011, Naha (Japan) in 2009, Oslo (Norway) in 2007, Tokyo (Japan) in 2005, Trier (Germany) in 2003, Starkville, Mississippi (USA) in 2001, Victoria (Canada) in 1999, Oxford (UK) in 1997, Chiba (Japan) in 1995, and Hamburg (Germany) in 1993. Details of previous workshops are available at: http://www.lsi-cad.com/RM/RM_history.html.