

Twenty Third IEEE Workshop on Control and Modeling for Power Electronics



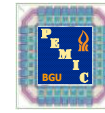
COMPEL 2022

Dan Panorama Tel Aviv Hotel, Israel

June 20-23, 2022

<http://www.compel2022.org/>

Call for Papers



The Center for
Power Electronics
& Mixed-Signal IC



Ben-Gurion University
of the Negev



The IEEE Power Electronics Society announces the Twenty Third IEEE Workshop on Control and Modeling for Power Electronics, IEEE COMPEL 2022. This workshop brings together researchers, engineers and students from academia and industry for an interactive discussion on the latest advances in modeling, simulation, analysis and control of power electronic devices, circuits and systems. Special emphasis of COMPEL 2022 will be on miniaturization methods of high-power-density converters, topologies for high-conversion ratio, sensing and control techniques for volume-sensitive energy interfaces.

Workshop themes include (but are not limited to):

- Modeling and Simulation for Power Electronics Converters: Advanced modeling and simulation techniques for power electronics converters, systems and components.
- Control of Power Converters: Advanced control and power management solutions for ac-dc, dc-dc and dc-ac power converters and systems, including analog or digital implementations.
- Topologies for High-Conversion Ratio: Power conversion topologies and analysis methodologies for applications ranging from low-power energy harvesters to multikilowatt power converters.
- Design, Optimization and Simulation Tools: Design analysis and verification tools, multi-level and multi-domain simulators, hardware-in-the-loop testing systems, virtual prototyping tools and techniques, software solutions for reliability, diagnostics and EMI assessment.
- Miniaturization and Integration: Power-on-Chip, multi-chip and multi-die advanced integration and 3-D stacking, mixed-signal platforms for integrated power, special processes and devices.
- High-Power-Density Systems in Renewable Energy: Challenges in residential and commercial power delivery, compact inverters, grid interaction, polarization issues, special magnetics.
- Education: Laboratories and equipment for teaching power electronics, innovative teaching methodologies, multimedia tools, interactive and virtual laboratories.

Preparation of Submissions: Prospective authors should submit an abstract cover page and a separate digest not exceeding five single-column double-spaced pages (including references), in PDF format. The cover page must report information about the paper, including title, topic of interest, authors' names, affiliations, complete mailing addresses, telephone and e-mail addresses of the corresponding author, plus a 100-word abstract. Further details will be posted on the website: <http://www.compel2022.org/>.

Venue: COMPEL 2022 will be held at the Dan Panorama Tel Aviv Hotel, Tel Aviv, Israel.

Important dates and deadlines:	Local Organizing Committee:
Digest submission deadline: March 18, 2022	General chair Mor Mordechai Peretz: morp@bgu.ac.il
Notification of acceptance: April 15, 2022	Vice chair Alon Kuperman: alonk@bgu.ac.il
Early registration closes: May 13, 2022	Program chair (General inquiries) Michael Evzelman: evzelman@bgu.ac.il
Final paper submission: June 15, 2022	Publication chair Ilya Zeltser: ilyaz@rafael.co.il