

2023 Annual Report (June 2022 – May 2023)

IEEE CASS NANO-GIGA Technical Committee

Chairman: Antonio Rubio, UPC
 Chairman-Elect: Georgios Sirakoulis, DUTH
 Secretary: Shimeng Yu, Georgia Tech

1. Technical Committee/Special Interest Group Meeting(s):

Please provide information on the TC/SiG meetings held in the past year, including date, time, location, attendance rate, and if a quorum was present.

The NG-TC has a plenary meeting every year at dates coinciding with the IEEE ISCAS conference. Additionally, the steering committee (Chairs and Secretary keep regular on-line meetings with a 3-month frequency approximately).

2. Voting Members:

email	affiliation	Name	IEEE Grade	IEEE Region
alon.ascoli@tu-dresden.de	TU Dresden	Alon Ascoli	Senior	8
ampadu@vt.edu	Department of Electrical & Computer Engineering, University of Virginia, USA	Paul Ampadu		USA
andreou@jhu.edu	Department of Electrical and Computer Engineering, John Hopkins University, USA	Andreas Andreou		USA
antonio.rubio@upc.edu	Department of Electronic Technology, Barcelona, Spain	Antonio Rubio	Senior	8
aziz@utk.edu	Department of Electrical Engineering and Computer Science, University of Tennessee, Knoxville, USA	Ahmedullah Aziz		USA
bdliu@mail.ncku.edu.tw	National Cheng Kung University	Bin-Da Liu		10
berekovic@c3e.cs.tu-bs.de	University of Luebeck, Institut for Computer Engineering, Germany	Mladen Berekovic		8
c.papavas@imperial.ac.uk	Imperial College, UK	Christos Papavasileiou		8
ccliu@umbc.edu	University of Maryland, Baltimore County	Chenchen Liu		USA
ccwang@ee.nsysu.edu.tw	National Sun Yat-sen University, Taiwan	Chua-Chin Wang	Senior	10
chchang@nchu.edu.tw	Dept. of EE, National Chung Hsing University, Taiwan	Robert Chen-Hao Chang	Senior	10
chiueh@ieee.org	Department of Electrical Engineering, National Taiwan University, Taiwan	Tzi-Dar Chiueh		10
ctchiu@cs.nthu.edu.tw	Department of Computer Science, National Tsing Hua University, Taiwan	Ching-Te Chiu		10
ctlin@mail.nctu.edu.tw	Department of Electronics and Electrical Engineering, NYCU, Taiwan	Chin-Teng Li		10
cwliu@twins.ee.nctu.edu.tw	Department of Electronics and Electrical Engineering, NYCU, Taiwan	Chih-Wei Liu		10
daniele.ielmini@polimi.it	Politecnico di Milano	Daniele Ielmini	Fellow	8

dr.wfang@gmail.com	Department of Electronics Engineering, National Chiao Tung University, Taiwan	Wai-Chi Fang		10
elisa.vianello@cea.fr	CEA France	Elisa Vianello		8
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ldvan@cs.nycu.edu.tw	National Yang Ming Chiao Tung University	Lan-Da Van	Senior	10
liuming@ime.ac.cn	The Institute of Microelectronics of Chinese Academy of Science, China	Liu Ming		10
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mdker@ieee.org	Institute of Electronics, National Yang Ming Chiao Tung University, Taiwan.	Morris Ming-Dou Ker	Fellow	10
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qxia@ecs.umass.edu	University of Massachusetts Amherst	Qiangfei Xia		USA
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sylee@ee.ncku.edu.tw	National Cheng Kung University, Taiwan	Shuenn-Yuh Lee		10
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thanos@upatras.gr	Faculty of Engineering, University of Patras	Thanos Stouraitis		8
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vitahu@ntu.edu.tw	National Taiwan University	Vita Pi-Ho Hu		10
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wfang@mail.nctu.edu.tw	Department of Electronics and Electrical Engineering, NYCU, Taiwan	Wai-Chi Fang		10
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snikolaid@physics.auth.gr	Department of Physics, Aristotle University of Thessaloniki	Spiros Nikolaidis		8

vasileios.ntinas@tu-dresden.de	Faculty of Electrical and Computer Engineering, TU Dresden	Vasileios Ntinas		8
		Huan hu		

Total number of voting members: 71

Geographical distribution of TC/SIG members (percentage of total)

	2022
Total number of TCs	% (no.)
Regions 1 – 6 (U.S.A.)	27 (19)
Region 7 (Canada)	
Region 8 (Europe/Africa, Middle East)	24 (17)
Region 9 (Central/South America)	3 (2)
Region 10 (Asia/Pacific)	46 (33)

Gender distribution of TC/SIG members (percentage of total)

	2022
Total number of TCs	%
Male	95
Female	5

Distribution of TC/SIG members by affiliation (percentage of total)

	2022
Total number of TCs	%
Academia	90
Industry	0
Government	10

3. Accomplished Technical Activities

3.1. IEEE Conference/Event organizations

(First priority, please highlight conference/events technically and financially co-sponsored by the CAS Society)

Your Name	Conference Sponsors	Conference/Event Title	Your Role
Joseph Friedman	IEEE CAS	LASCAS	TPC, Track Chair
Joseph Friedman	IEEE CAS	ISCAS	RCM
Joseph Friedman	IEEE CAS	AICAS	RCM
Alon Ascoli	IEEE CAS	IEEE CASS Seasonal School on "Intelligence in Chips: Integrated Sensors and Memristive Computing", 1-7, November 2022, https://www.intelligentchip.org	Co-Organizer
Alon Ascoli	IEEE CAS	ISCAS 2022, ISCAS 2023	Special Session Co-Organizer
Alon Ascoli	IEEE CAS	ISCAS 2023	Tutorial Co-Provider
Alon Ascoli	IEEE CAS	Nano 2022	Special Session Chair and Special Session Co-Organizer
Alon Ascoli	IEEE CAS	ICECS 2022	Special Session Co-Organizer
Alon Ascoli	IEEE CAS	MetroXRRAINE 2023	Special Session Co-Organizer
Daniele Ielmini	IEEE CAS	ISCAS	RCM
Daniele Ielmini	IEEE CAS	DATE	Technical committee member and reviewer
Chua-Chin Wang	IEEE CAS	IEEE the 18th Asia Pacific Conference on Circuits and Systems (APCCAS) 2022	Reviewer

Chua-Chin Wang	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2023	Reviewer
Kyeong-Sik Min	IEEE CAS	International SoC Conference (ISOCC) 2022	Special Session Chair Special Session Organizer
Lan-Da Van	IEEE CAS	IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS) 2022	Special Session Co-Chair
Vita Pi-Ho Hu	IEEE CAS	International Symposium on Quality Electronic Design (ISQED) 2023	Tutorial Chair/Technical Program Committee
Robert Chen-Hao Chang	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2023	RCM
Robert Chen-Hao Chang	IEEE CAS	IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS) 2022	Advisory Co-Chair
Shuenn-Yuh Lee	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2023	RCM, Session Chair
Shuenn-Yuh Lee	IEEE CAS	IEEE Biomedical Circuits and Systems (BioCAS) 2022	General Co-Chairs
Antonio Rubio	IEEE CAS	ISCAS 2022, ISCAS 2023	RCM, Session Chair, Track Chair
Georgios Ch. Sirakoulis	IEEE CAS	ISCAS 2022, ISCAS 2023	RCM, Session Chair, Track Chair, Special Session Co-Organizer
Georgios Ch. Sirakoulis	IEEE CAS	ICECS 2022	Special Session Co-Organizer
Ioannis Vourkas	IEEE CAS	ISCAS 2023	RCM
Ioannis Vourkas	IEEE CAS	LASCAS 2023	Workshop on Agrifood Electronics-WAFE PC Member

(Second priority, please highlight conference/events technically by the CAS Society)

Your Name	Conference Sponsors	Conference/Event Title	Your Role
Ahmedullah Aziz	IEEE CAS, IEEE Computer Society, IEEE	IEEE Computer Society Annual Symposium on VLSI (ISVLSI) 2023	Track Chair
Alon Ascoli	IEEE CAS	MOCAS 2022, MOCAS 2023	Special Session Co-Organizer
Chua-Chin Wang	IEEE CAS	International SoC Conference (ISOCC) 2022	Reviewer
Lan-Da Van	IEEE CAS	International SoC Design Conference (ISOCC) 2022	Technical Program Committee Co-Chair
Lan-Da Van	IEEE CAS	IEEE Nordic Circuits and Systems Conference (NORCAS) 2022	TPC Member
Meng-Fan Chang	IEEE CAS	VLSI-DAT 2023	Track Co-chair
Tuo-Hung Hou	IEEE CAS	International Symposium on VLSI Technology, Systems and Applications (VLSI-TSA)	Organizer, Tutorial: BEOL Oxide Semiconductor Devices
Tuo-Hung Hou	IEEE CAS	International Symposium on VLSI Technology, Systems and Applications (VLSI-TSA)	TPC

3.2. IEEE Journal Editorships:

(Please highlight the journals that are (co-)sponsored by the CAS Society, cf., <https://ieeecas.org/publications>)

Your Name	Journal Sponsors	Journal Title	Your Role
Shimeng Yu	IEEE CAS	IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS)	Senior Editor
Alon Ascoli	IEEE CAS	IEEE Transactions on Circuits and Systems-I: Regular Papers	Associate Editor (since March 28, 2023)
Meng-Fan Chang	IEEE CAS	IEEE Transactions on Circuits and Systems I (TCAS-I)	Associate Editor
Meng-Fan Chang	IEEE CAS	IEEE Transactions on VLSI Systems (TVLSI)	Associate Editor
Shuenn-Yuh Lee	IEEE CAS	IEEE Trans. on Biomedical Circuits and Systems	Associate Editor

Please don't report journals that are NOT sponsored by the CAS Society. Thank you!

3.3. Awards, Honors, and Recognition

(Fellow, Distinguished Lecturer, Outstanding Service, Best Paper Awards, and so on by the CAS Society)

Your Name	Awards / Honors / Recognition	Period
Shimeng Yu	IEEE Circuits and Systems Society (CASS) Distinguished Lecturer	2021-2022
Alon Ascoli	IEEE Transactions on Circuits and Systems Darlington Best Paper	2023
Chua-Chin Wang	IEEE ICICDT Best Paper Award.	2022

3.4. Keynote Speeches/Invited Talks:

Your Name	Invited by	Event/Conference Title	Talk Title	Date
Ahmedullah Aziz	ASP-DAC 2023	28th Asia and South Pacific Design Automation Conference (ASP-DAC 2023)	Cryogenic Memory Technologies: A Device-to-System Perspective	Jan 17, 2023
Ahmedullah Aziz	Sandia National Laboratory, NM, USA	Machine Learning Deep Learning (ML/DL) Workshop	A Generalized Workflow for Creating Machine Learning-Powered Compact Models of Multi-state Devices	Jul 25, 2022
Shimeng Yu	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS)	Tutorial to Compute-in-Memory Memory Hardware Accelerators	May 2022
Shimeng Yu	IEEE CAS	IEEE Circuits and Systems Society (CASS)-wide Webinar	Recent Progresses of RRAM Compute-in-Memory Prototype Chips	Nov 2022
Shimeng Yu	IEEE CAS Singapore Chapter	International Workshop on Future Intelligent Circuits and Systems (IW-FICAS)	Recent Progresses of RRAM Compute-in-Memory Prototype Chips	Nov 2022
Alon Ascoli	Alberto Garcia-Ortiz and Spiros Nikolaidis	MOCAS 2022	Edge of Chaos Theory Explains Smale Paradox	Jun 10, 2022
Alon Ascoli	MEMRISYS Technical Program Committee	MEMRISYS 2022	Edge of Chaos Theory Explains the Origin for Fundamental Bifurcation Phenomena in Memristive Biological Systems	Nov 30, 2022
Alon Ascoli	Bhaskar Choubey and Alex James	IEEE CASS Seasonal School on "Intelligence in Chips: Integrated Sensors and Memristive Computing" 1-7, November 2022, https://www.intelligentchip.org	Edge of Chaos Clarifies the Origin for Yet-Unexplained Nonlinear Phenomena in Biological Systems	Nov 5, 2022
Daniele Ielmini	A. Bosio	IEEE DAC	Resistive switching memory (RRAM): from device technology to applications in computing	Jul 10, 2022
Sorin Cotofana	IEEE CAS	IEEE Circuits and Systems Society (CASS)-wide Webinar	Graphene-Based Computing	Oct 12, 2022
Stephan Menzel	Fernando Corinto	COSMO Workshop, Perugia, Italy	Exploiting the Stochastic Switching Behavior of Memristive Devices	Jun 24, 2022
Stephan Menzel	Sabina Spiga	CIMTEC 2022, Perugia, Italy	Physic based simulation of ReRAM for neural network applications	Jun 25-29, 2022
Stephan Menzel	Alon Ascoli	CASS Seasonal School, virtual conference	Modeling of Memristive Devices	Nov 1-7, 2022
Stephan Menzel	Bilge Yildiz	Solid State Ionics 23, Boston	On the Conduction Mechanism of Valence Change Memories	Jul 17-22, 2022
Stephan Menzel	Rainer Waser	Juelich Aachen Neuromorphic Computing Day, Jülich	Reliability Aspects of CIM Operations based on VCM Devices	May 25, 2022
Stephan Menzel	Alexandros Emboras	European Conference on Optical Communication, Basel	Exploiting the Dynamics of Memristive Devices Based on the Valence Change Mechanism for Analog Computing	Sep 18-22, 2022
Meng-Fan Chang		Keynote/ IEEE International Test Conference in Asia	Challenges in Design and Test of Compute-in-Memory	Aug 25, 2022
Meng-Fan Chang	CASS Singapore Chapter	IEEE International Workshop for Future Intelligent Circuits and Systems	Challenges in Circuits of Embedded Compute-in-Memory Macros	Aug 3, 2022
Meng-Fan Chang	DAC	Memory Architectures and Computing Applications Workshop /DAC	Challenges and Trends of SRAM based Computing in Memory	Jul 10, 2022
Meng-Fan Chang		Short course/ Symp VLSI	Advanced in Embedded Compute-in-Memory Macros	Jun 13, 2022
Shuenn-Yuh Lee	Oliver Lue	2022 IEEE Symposium on VLSI technology and circuits	A Wireless Urine Detection System and Platform with Power-Efficient	Jun 16, 2022

			Electrochemical Readout ASIC and ABTS-CNT Biosensor	
Tuo-Hung Hou	IEEE IEDM	International Electron Devices Meeting (IEDM) 2022	Investigation of defect engineering toward prolonged endurance for HfZrO based ferroelectric device	Dec 03-07, 2022
Georgios Ch. Sirakoulis	Alon Ascoli, Bhaskar Choubey and Alex James	IEEE CASS Seasonal School, virtual conference	Modeling of Memristive Devices	Nov 1-7, 2022
Georgios Ch. Sirakoulis	Thomas Noulis, Alkiviades Hatzopoulos, and Costas Psychalinos	IEEE CASS Seasonal School, virtual conference on "SMART Integrated Circuit Design Methodology: Enabling AI IC Design and Design Cycle Speed Up"	Memristive Circuit Design: Pave the Way for AI	Nov. 25-27, 2022

3.5. Other distinguished IEEE services

(For example, CAS BoG, Region/chapter leadership, TC chair/secretary)

Your Name	Organization	Position/Activities	Period
Shimeng Yu	IEEE CAS	Vice Chair, IEEE Atlanta Chapter	2021-2022
Alon Ascoli	CASS	CNN-MAC TC Chair	2021-2023
Sorin Cotofana	IEEE CAS	CAS BoG Member	
Stephan Menzel	Forschungszentrum Juelich GmbH	Associate Editor Journal of the Electron Devices Society	Since 2020
Robert Chen-Hao Chang	IEEE A-SSCC	TPC Member	2022
Lan-Da Van	IEEE Transactions on Emerging Topics in Computing	Associate Editor	2022/01~Present
Lan-Da Van	ACM Computing Surveys	Associate Editor	2020/01~Present
Lan-Da Van	IEEE International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSOC), 2022. (Sponsor: IEEE CS)	Program Co-Chair	2022
Meng-Fan Chang	IEEE Taipei Section	Board of Governor	2021- present
Robert Chen-Hao Chang	IEEE Taipei Section	Board of Governor	2021-2022
Shuenn-Yuh Lee	IEEE A-SSCC	Organizing Committee Chair	2022
Tuo-Hung Hou	IEEE EDTM	Memory sub-committee / Chair	2022-2023
Tuo-Hung Hou	IEEE Taipei Section	Board of Directors	2019-present
Georgios Ch. Sirakoulis	IEEE Greece Section	Board of Officers, Membership Development Chair	2020-present

4. TC Significant Technical Leadership and Innovations

Please list 5 (or less) most significant TC/SIG activities in the past year, for example, but not limited to

- (1) Established/organized new CASS journals/conferences/workshops
 - a. Please include title, scope, status (e.g., submissions, published papers)
- (2) Organized special issues in CASS journal, special sessions/tutorials in CASS conferences, CASS seasonal schools, CASS industrial forums, or CASS competitions
 - a. Please include title, the guest editors/organizers, the year, and the month, the number of submissions, the number of papers published, and the impacts (e.g., the total number of citations/full text views so far or the total number of attendees)
- (3) Organized new CASS initiatives
- (4) Established cross-TCs/SIGs collaborations
- (5) Awards received by the TC/SIG or the TC/SIG members

Shimeng Yu

(2)

Co-organized special issue on “Memristive Circuits and Systems for Edge-Computing Applications”, IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS), which has been published online in Q4 2022.

Alon Ascoli

(2)

Besides organizing a CASS Seasonal School, as reported earlier, I also co-edited a special issue on “Memristive Circuits and Systems for Edge-Computing Applications” for the IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS). Publication: December 2022

Spyridon Nikolaidis

(1)

Organization of the 11th International Conference on Modern Circuits and Systems Technologies (MOCAS 2022), 8-10 June, Bremen, Germany

Technically Sponsored by IEEE Greece Section

Submissions: 112 papers, Oral presentations:50, Poster presentations: 42

(2)

Lecturer in the CAS seasonal school “Intelligence in Chip: Integrated Sensors and Memristive Computing”, 1-7 November 2022. Hybrid event.

Vasileios Ntinis

(2)

Special Session Title: “Shaping Future Electronic Circuits and Systems with Emerging Memory Devices”

Special Session Organizer: Vasileios Ntinis, TU Dresden

Event: International Conference on Synthesis, Modeling, Analysis and Simulation Methods, and Applications to Circuit Design (SMACD)

Funchal, Madeira, Portugal

July 3-5, 2023 (The conference will be held in July, so it probably does not belong to this year's report.

If so, you may add it as a future plan)

5 out of 5 accepted papers

Georgios Ch. Sirakoulis

(2)

Besides organizing a CASS Seasonal School, as reported earlier, I also co-organized and co-edited a special issue on “Memristive Circuits and Systems for Edge-Computing Applications”, IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS), which has been published online in Q4 2022.

5. New plans for the next year

Are there any new initiatives, workshops, journal special issues, conference special sessions, etc., that your TC or TC members are planning for the next year?

Spyridon Nikolaidis

Organization of the 12th International Conference on Modern Circuits and Systems Technologies (MOCAS 2022), 28-30 June, Athens, Greece.

Technically Sponsored by IEEE Greece Section

Submissions: 123 papers