

2022 Annual Report (June 2021 – May 2022)
[CASCOM] Technical Committee/ Special Interest Group
IEEE Circuits and Systems Society

Chairman: [Hanho Lee]
Secretary: [Chuan Zhang]

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.

- CASCOM TC meeting (Virtual), May 24, 2021, 12 ~ 13:00pm, Daegu, ISCAS2021

2. Voting Members:

First Name	Last Name	Affiliation	Email	IEEE Grade	IEEE Region
Christoph	Studer	ETH Zürich	studer@ethz.ch	IEEE Senior Member	Region 8
Alexander	Korotkov	Peter the Great St. Petersburg Polytechnic University	korotkov@rphf.spbstu.ru	Senior member	Region 8
Joseph R.	Cavallaro	Rice University	cavallar@rice.edu	Fellow	Region 5
Dur E Shahwar	Kundi	Nanjing University of Aeronautics and Astronautics	durshi1@gmail.com	Member	Region 10
Jiafeng	Xie	Villanova University	jiafeng.xie@villanova.edu	Senior Member	Region 2
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Gerald	Sobelman	University of Minnesota	sobelman@ece.umn.edu	Life Senior Member	Region 4
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Chuan	Zhang	Southeast University	chzhang@seu.edu.cn	Senior Member	Region 10
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Yuan-Hao	Huang	National Tsing Hua University	yhhuang@ee.nthu.edu.tw	Member	Region 10
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Yong	Chen	University of Macau	ychen@um.edu.mo	Member	Region 10

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

	2021
Total number of TCs	88 (100%)
Regions 1 – 6 (U.S.A.)	33 (37.5%)
Region 7 (Canada)	1 (1.14%)
Region 8 (Europe/Africa, Middle East)	14 (15.91%)
Region 9 (Central/South America)	1 (1.14%)
Region 10 (Asia/Pacific)	39 (44.32%)

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

	2021
Total number of TCs	88 (100%)
Male	78 (88.64%)
Female	10 (11.36%)

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

	2021
Total number of TCs	88 (100%)
Academia	79 (89.77%)
Industry	9 (10.23%)
Government	0 (0%)

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
Weisi Lin	IEEE CAS	IEEE Int'l Symp. on Circuits and Systems (ISCAS 2022)	Review Committee Member (RCM)
Yingjie Lao	IEEE CASS	ISCAS 2022	RCM
Yingjie Lao	IEEE CASS & SPS	IEEE Workshop on Signal Processing Systems 2021	TPC member
Joseph Cavallaro	IEEE CAS	IEEE ISCAS 2022	RCM, Session Chair
Joseph Cavallaro	IEEE CAS/SPS	IEEE SiPS 2021	General Co-Chair
Joseph Cavallaro	IEEE CAS/SPS	IEEE SiPS 2022	TPC Member
Vanessa Chen	IEEE CAS	ISCAS 2021	RCM
Lan-Da Van	IEEE CAS	IEEE Asia Pacific Conference on Circuits and Systems (APCCAS)	Steering Committee Member, 2021
Lan-Da Van	IEEE CAS	IEEE International System-on-Chip Conference (SOCC)	Tutorial Co-Chair, 2021
Lan-Da Van	IEEE CAS	International SoC Design Conference (ISOCC), 2021	Special Session Co-Chair, 2021
Yuan-Hao Huang	IEEE CAS	2022 BioCAS	Finance cochair
Yuan-Hao Huang	IEEE CAS	2022 ISCAS	TPC, reviewer
Yuan-Hao Huang	IEEE CAS	2021 SiPS	TPC, reviewer
Chongyan Gu	IEEE CAS	ISCAS2022	RCM, Reviewer

Jiafeng Xie	IEEE CAS	ISCAS 2022	Review Committee & Session Chair
Christoph Studer	IEEE CAS	ISCAS 2022	RCM, Reviewer
Vyasa Sai	IEEE CAS	ISCAS 2022	RCM
Yong Chen. Nick	IEEE CAS	ISCAS 2022	RCM, Reviewer, Track Chair
Yong Chen. Nick	IEEE CAS	NorCAS 2022	TPC
Yong Chen. Nick	IEEE CAS	A-SSCC 2022	TPC
Yong Chen. Nick	IEEE CAS	APCCAS 2022	Special Session Co-Chairs
Yong Chen. Nick	IEEE CAS	NorCAS 2021	TPC, Reviewer, Track Chair
Yong Chen. Nick	IEEE CAS	ICTA 2021	TPC, Track Chair
Yong Chen. Nick	IEEE CAS	A-SSCC 2021	TPC, Track Chair
Pei-Yun Tsai	IEEE CAS	ISCAS 2022	Review Committee Member Reviewer
Jongsun Park	IEEE CAS	ISCAS 2021	Tutorial Co-Chair
Jongsun Park	IEEE CAS	ISCAS 2021	Review Committee Member
Jongsun Park	IEEE CAS	AICAS 2021	Demo Co-Chair
Jongsun Park	IEEE CAS	AICAS 2022	Plenary Session Co-Chair
Jongsun Park	IEEE CAS	ISOC (International SoC Design Conference) 2021	General Vice Chair
Jongsun Park	IEEE CAS	ISOC (International SoC Design Conference) 2022	General Chair
An-Yeu (Andy) Wu	IEEE CAS	2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea	Tutorial Co-Chair
Weiqiang Liu	IEEE CASS	ISCAS 2022	RCM
Chuan Zhang	IEEE CASS	ISCAS 2022	Track Chair and RCM
Jongsun Park	IEEE CAS	ISCAS 2021	Tutorial Co-Chair
Jongsun Park	IEEE CAS	ISCAS 2021	Review Committee Member
Jongsun Park	IEEE CAS	AICAS 2021	Demo Co-Chair
Jongsun Park	IEEE CAS	AICAS 2022	Plenary Session Co-Chair
Jongsun Park	IEEE CAS	ISOC (International SoC Design Conference) 2021	General Vice Chair
Jongsun Park	IEEE CAS	ISOC (International SoC Design Conference) 2022	General Chair
Yong Chen. Nick	IEEE CAS	ISCAS 2022 NorCAS 2022 A-SSCC 2022 APCCAS 2022 NorCAS 2021 ICTA 2021 A-SSCC 2021	RCM, Reviewer, Track Chair TPC TPC Special Session Co-Chairs TPC, Reviewer, Track Chair TPC, Track Chair TPC, Track Chair
Jienan Chen	IEEE CAS	ISCAS 2022	RCM, Reviewer, Session Chair
Junghwan Han	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2021	Publication Co-Chair
Junghwan Han	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2021	Session Chair
Junghwan Han	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2022	RCM
Junghwan Han	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS) 2022	Reviewer
Junghwan Han	IEEE CAS	IEEE International Conference on Artificial Intelligent Circuits and Systems (ISCAS) 2022	Exhibition Co-chair
Xiangyu Meng	IEEE CAS	ISCAS 2020	Review committee member Paper Reviewer Session Chair
Youngjoo Lee	IEEE CASS	ISCAS 2021	OC Member RCM Session Chair
Youngjoo Lee	IEEE CASS	ISCAS 2022	RCM Session Chair
Youngjoo Lee	IEEE CASS	AICAS 2022	OC Member
Youngjoo Lee	IEEE CASS	ISOC 2021	OC Member TPC Member Session Chair
Youngjoo Lee	IEEE CASS	ISOC 2022	OC Member TPC Member
Hanho Lee	IEEE CASS	ISCAS 2021	Technical Program Committee Chair
Hanho Lee	IEEE CASS	ISOC 2021	OC Member
Kyunki Kim	IEEE CASS	ISOC 2021	OC Member

Myung Hun Sunwoo	IEEE CASS	ISOC 2021	OC Member
Myung Hun Sunwoo	IEEE CASS	ISCAS 2021	General Co-Chair

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

Your Name	Conference Sponsors	Conference/Event Title	Your Role
Lan-Da Van	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS)	VLSI Systems and Applications TC Member
Lan-Da Van	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS)	Circuits and Systems for Communications TC Member.
Lan-Da Van	IEEE CAS	IEEE International Symposium on Circuits and Systems (ISCAS)	Nanoelectronics and GigaScale Systems TC Member
Lan-Da Van	IEEE CAS	IEEE Nordic Circuits and Systems Conference (NORCAS)	TPC Member, 2021
An-Yeu (Andy) Wu	IEEE SP and CAS	2021 IEEE International Workshop on Signal Processing Systems (SiPS), Coimbra, Portugal	TPC member

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

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
Vanessa Chen	IEEE CAS	IEEE Open Journal of Circuits and Systems	Associate Editor
Vanessa Chen	IEEE CAS	IEEE Transactions on Biomedical Circuits and Systems	Associate Editor
Joseph Cavallaro	IEEE CAS	IEEE JETCAS	Senior Editor
Christoph Studer	IEEE CAS	IEEE Open Journal on Circuits and Systems (OJCAS)	Associate Editor
Vyasa Sai	IEEE	IEEE Communications Magazine	Lead Series Editor
Vyasa Sai	IEEE	IEEE Communications Magazine	Associate Editor
Vyasa Sai	IEEE	IEEE Access	Associate Editor
Jongsun Park	IEEE CAS	IEEE CAS Magazine	Associate Editor
Jongsun Park	IEEE CAS	IEEE OJCAS	Associate Editor
Yong Chen, Nick	IEEE CAS	IEEE Transaction on Very Large Scale Integration (TVLSI) Systems	Associate Editor
Yong Chen, Nick	IEEE CAS	IEEE Transactions on Circuits and Systems I: Regular Papers	Guest Editor
Yong Chen, Nick	IEEE CAS	IEEE Transactions on Circuits and Systems II: Express Briefs	Guest Editor
An-Yeu (Andy) Wu	IEEE CAS	IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS)	Editor-in-Chief (EIC)
Weiqiang Liu	IEEE CASS	TCAS-I	Associate Editor
Chuan Zhang	IEEE CASS	TCAS-II	Associate Editor
Chuan Zhang	IEEE CAS	IEEE OJCAS	Associate Editor
Jongsun Park	IEEE CAS	IEEE CAS Magazine	Associate Editor
Jongsun Park	IEEE CAS	IEEE OJCAS	Associate Editor
Yong Chen, Nick	IEEE CAS	IEEE Transaction on Very Large Scale Integration (TVLSI) Systems	Associate Editor
Yong Chen, Nick	IEEE CAS	IEEE Transactions on Circuits and Systems I: Regular Papers	Guest Editor
Yong Chen, Nick	IEEE CAS	IEEE Transactions on Circuits and Systems II: Express Briefs	Guest Editor
Junghwan Han	IEEE CAS	IEEE Open Journal of Circuits and Systems	Associate Editor
Hanho Lee	IEEE CAS	IEEE Open Journal of 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
Gerald Sobelman	Distinguished Lecturer	2020-2022
Chuan Zhang	Distinguished Lecturer	2022-2023
Christoph Studer	ESSCIRC 2021 Best Paper Award	2021
An-Yeu (Andy) Wu	Fellow	2015-now
Yong Chen, Nick	five highest-performing Associate Editors of IEEE Transaction on Very Large Scale Integration (TVLSI) Systems in 2021	2021
Yong Chen, Nick	Best Student Paper Award (Third Place) in the IEEE Radio Frequency Integrated Circuits (RFIC 2021) Symposium, Atlanta, GA.	2021
Yong Chen, Nick	five highest-performing Associate Editors of IEEE Transaction on Very Large Scale Integration (TVLSI) Systems in 2021	2021
Yong Chen, Nick	Best Student Paper Award (Third Place) in the IEEE Radio Frequency Integrated Circuits (RFIC 2021) Symposium, Atlanta, GA.	2021
Youngjoo Lee	Elevated to IEEE Senior Member	2021

3.4. Keynote Speeches/Invited Talks:

Your Name	Invited by	Event/Conference Title	Talk Title	Date
Weisi Lin	Conference PC	Keynote Speech (on-line), IEEE 6th International Conference on Signal and Image Processing (ICSIP), 2021	Characterizing Various Visual Signals for Human and Machine Users	23 Oct 2021
Weisi Lin	Conference PC	Tutorial, IEEE International conference on Acoustics, Speech, and Signal processing (ICASSP). 2021	Assessment of Visual Signals: From Technical Quality to Aesthetic Quality	7 June, 2021
Christoph Studer	NVIDIA	NVIDIA GTC	The Role and Future of Machine Learning in Massive MIMO Wireless Systems	Nov. 2021
Nam Ling	The 5th International Symposium on Computer Vision for Public Security (CVPS)	Combined Conference of the 4th International Conference on Natural Language Processing (ICNLP), the 4th International Symposium on Signal Processing Systems (SSPS), and the 5th International Symposium on Computer Vision for Public Security (CVPS)	Visual Coding – From Traditional Approach to Deep Learning Approach	March 26-27, 2022
An-Yeu (Andy) Wu	SiPS	2021 IEEE International Workshop on Signal Processing Systems (SiPS)	From Compressive Sensing to Compressive Analytics: A New Design Paradigm for Light-weight Intelligent Biomedical Signal Processing	Oct. 20, 2021.
Weiqiang Liu	Alberto Bosio	6th Workshop on Approximate Computing (AxC21) conjunction with ICCAD'21	Approximate Computing for Low Power Circuits and Systems	Nov. 2021
Weiqiang Liu	Maire O'Neill	UKRI RISE and eFuture Joint Workshop on Engineering Significant Difference	Approximate Computing and Security	Jun. 2021
Weiqiang Liu	Xinyu Zhang	Huawei Strategy and Technology Workshop	Approximate Computing	Oct. 2021
S. Easwaran	IEEE CASS	MWSCAS (Aug 2021)	Tutorial on Analog Mixed Signal and Power IC integration for Automotive applications	Aug 2021
Chuan Zhang	IEEE CAS	IEEE CAS Forum on Interdisciplinary Research	Artificial Intelligence for 5G and Beyond 5G	Nov. 2021
Hanho Lee	Conference OC	2021 International Conference on Advanced Technologies for Communications	Lattice-based Post-Quantum Cryptography: From Algorithm to Architecture Design	Oct. 2021

3.5. Other distinguished IEEE services

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

Your Name	Organization	Position/Activities	Period
Yuan-Hao Huang	IEEE (ISCAS) (Circuits and Systems for Communications)	TC Member	2021,2022
Yuan-Hao Huang	IEEE (ISCAS) (VLSI Systems & Applications)	TC Member	2021,2022
Lan-Da Van	IEEE	Associate Editor, IEEE Transactions on Emerging Topics in Computing	2022/01~Present
Lan-Da Van	ACM	Associate Editor, ACM Computing Surveys	2020/01~Present
Lan-Da Van	IEEE	Associate Editor, IEEE Access	2018/02~2022/01
Joseph Cavallaro	IEEE CASS	IEEE Council RFID BoG - CAS Society Representative	2020-2023
Joseph Cavallaro	IEEE CASS	Houston Chapter Chair	2021-2022
Joseph Cavallaro	IEEE Computer	IEEE Micro Special Issue on Artificial Intelligence at the Edge - Co-Guest Editor	2022
Pei-Yun Tsai	IEEE CASS Taipei Chapter	Vice-Chair	2021-2022
Pei-Yun Tsai	IEEE Asian Solid-State Circuits Conference	TPC SoC Subcommittee Chair	2021-2022
Pei-Yun Tsai	ACM International Conference on Multimedia Retrieval 2021	Brave New Idea Track Chair	2021
Pei-Yun Tsai	IEEE Signal Processing Society Applied Signal Processing Systems Technical Committee (ASPSTC)	Member	2015-
Pei-Yun Tsai	IEEE Solid-State Circuits Letter	Guest Editor	2022
An-Yeu (Andy) Wu	CASS	Board of Governor (BoG)	2019-2021
Weiqiang Liu	IEEE CASS	Steering Committee Member, IEEE TVLSI	2021-2022
Weiqiang Liu	IEEE NTC	AdCom Member, IEEE NTC	2021-2022
Junghwan Han	CAS Daejeon Chapter	Co-chair / Establish new Daejeon chapter in 2021	2021-2022
Youngjoo Lee	IEEE A-SSCC	TPC Member	2021
Youngjoo Lee	IEEE Symposium on VLSI Circuits	TPC Member	2022
Hanho Lee	IEEE CASS	Board of Governor (BoG)	2021-2022
Kyunki Kim	IEEE CASS	Daegu Chapter Chair	2021-2022
Hanho Lee	IEEE CASS	CASCOM TC Chair	2021-2022
Myung Hun Sunwoo	IEEE CASS	IEEE CASS Chair-elect	2022

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

- Pei-Yun Tsai:

Organized Industry Forum (Virtual, IEEE CASS Taipei Chapter)

Title: IEEE CASS & APSIPA Industry Forum in System and Architecture of Advanced Computing

Organizer: Pei-Yun Tsai,

Registered: 120 persons, On-Line: 103 persons

- Weiqiang Liu:

Guest Editors: Shanshan Liu, Bi Wu, Ke Chen, Weiqiang Liu, Maire O'Neill and Fabrizio Lombardi, IEEE Transactions on Circuits and Systems I: Regular Papers (TCAS-I), Special Issue on Circuits and Systems for Emerging Computing Paradigm, Jun. 2021-Apr. 2022. 31 papers submitted and 8 papers accepted.

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?