

2021 Annual Report (June 2020 – May 2021)

Multimedia Systems & Applications Technical Committee

IEEE Circuits and Systems Society

Chairman: Dr. Sen-ching Samson Cheung
Secretary: Dr. Wen-Huang Chang

1. Technical Committee Meeting(s):

(Please state the number of TC meetings in the past year, where held, TC meeting attendance rate, and was a quorum present.)

The MSA Technical Committee in the IEEE Circuits and Systems Society organizes two annual TC meetings, one in ISCAS and one in ICME. The first meeting was held virtually during ICME 2020 on July 6, 2020. There were 31 participants, among which 22 were voting members. A quorum was reached as the attendance rate of $22/50 = 0.44$ is larger than the required one-third of the TC members. The second meeting was held virtually during ISCAS 2020 on October 14, 2020. There were 29 participants, among which 23 were voting members. A quorum was reached as the attendance rate of $23/50 = 0.46$ is larger than the required one-third of the TC members.

2. Voting Members:

| First Name | Last Name | Affiliation | Email | IEEE Grade | IEEE Region |
|-----------------|----------------|--|---------------------------|---------------|-------------|
| Agostini | Luciano Volcan | Federal University of Pelotas | agostini@inf.ufpel.edu.br | Senior Member | 9 |
| Anagnostopoulos | Iraklis | Southern Illinois University Carbondale | Iraklis.anagno@siu.edu | Member | 4 |
| Bajic | Ivan | Simon Fraser University | ibajic@ensc.sfu.ca | Senior Member | 7 |
| Bao | Bing-Kun | Nanjing University of Posts and Communications | bingkunbao@njupt.edu.cn | IEEE Member | 10 |
| Chen | Zhibo | University of Science and Technology of China | chenzhibo@ustc.edu.cn | Senior Member | 10 |
| Cheng | Wen-Huang | National Yang Ming Chiao Tung University | whcheng@nctu.edu.tw | Senior Member | 10 |
| Cheung | Samson | University of Kentucky | sccheng@ieee.org | Fellow | 3 |
| Chien | Shao-Yi | National Taiwan University | sychien@NTU.EDU.TW | Member | 10 |
| Chu | Wei-Ta | National Cheng Kung University | wtchu@gs.ncku.edu.tw | Senior Member | 10 |
| Cui | Peng | Tsinghua University | cui@tsinghua.edu.cn | Senior member | 10 |
| Duan | Ling-Yu | Peking University | lingyu@PKU.EDU.CN | Member | 10 |
| Ebrahimi | Touradj | EPFL | touradj.ebrahimi@EPFL.CH | Fellow | 8 |
| El Saddik | Abdulmotaleb | University of Ottawa | elsaddik@uottawa.ca | Fellow | 7 |
| Gabbouj | Moncef | Tampere University | moncef.gabbouj@tuni.fi | Fellow | 8 |
| Hou | Junhui | City University of Hong Kong | jh.hou@cityu.edu.hk | Senior Member | 10 |
| Hsu | Winston | National Taiwan University | whsu@NTU.EDU.TW | Senior Member | 10 |
| Hu | Wei | Peking University | forhuwei@pku.edu.cn | Senior Member | 10 |
| Hua | Xian-Sheng | DAMO Academy, Alibaba Group | huaxiansheng@gamil.com | Fellow | 10 |
| Kang | Li-Wei | National Taiwan Normal University | lwkang@ntnu.edu.tw | Member | 10 |
| Kim | Chang-Su | Korea University | changasukim@korea.ac.kr | Senior Member | 10 |

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|---------------|-----------|--|-------------------------------------|---------------|----|
| Li | Shipeng | Shenzhen Institute of Artificial Intelligence and Robotics for Society | shipengli@OUTLOOK.COM | Fellow | 10 |
| Li | Ying | IBM | yingli@us.ibm.com | Senior Member | 1 |
| Liang | Jie | Simon Fraser University, Canada | jiel@sfu.ca | Senior Member | 7 |
| Lin | Chia-Wen | National Tsing Hua University, Taiwan | cwlin@ee.nthu.edu.tw | Fellow | 10 |
| Liu | Wu | AI Research of JD.COM | liuwu@live.cn | Member | 10 |
| Liu | Dong | University of Science and Technology of China | dongeliu@ustc.edu.cn | Senior Member | 10 |
| Liu | Jiaying | Peking University | liujiaying@pku.edu.cn | Senior Member | 10 |
| Lu | Jiwen | Tsinghua University | lujiwen@tsinghua.edu.cn | Senior Member | 10 |
| Luo | Chong | Microsoft Research Asia | cluo@microsoft.com | Senior Member | 10 |
| Mei | Tao | AI Research of JD.COM | tmei@live.com | Fellow | 10 |
| Meng | Jingjing | University at Buffalo, SUNY | jingjing.meng1@gmail.com | senior member | 1 |
| Mrak | Marta | British Broadcasting Corporation | marta.mrak@bbc.co.uk | Senior Member | 8 |
| Nie | Liqiang | Shandong University | nieliqiang@sdu.edu.cn | Senior Member | 10 |
| See | John | Heriot-Watt University Malaysia | johnsee@ieee.org, J.See@hw.ac.uk | Senior Member | 10 |
| Sun | Jiande | Shandong Normal University | jiandesun@sdsu.edu.cn | member | 10 |
| Tan | Yap-Peng | Nanyang Technological University, Singapore | eyptan@ntu.edu.sg | Fellow | 10 |
| Tian | Dong | InterDigital | dong.tian@gmail.com | Senior Member | 1 |
| Velisavljevic | Vladan | University of Bedfordshire, UK | vladan.velisavljevic@beds.ac.uk | Senior Member | 8 |
| Wan | Shuai | Northwestern Polytechnical University | swan@nwpu.edu.cn | Member | 10 |
| Wen | Yonggang | Nanyang Technological University | ygwen@ntu.edu.sg | IEEE Fellow | 10 |
| Xu | Jizheng | Microsoft Research Asia | jzxu@IEEE.ORG | Senior member | 6 |
| Yuan | Junsong | University at Buffalo | jsyuan@buffalo.edu | Fellow | 1 |
| Zeng | Wenjun | Microsoft Research Asia | wezeng@microsoft.com | Fellow | 6 |
| Zeng | Dan | Shanghai University | dzeng@shu.edu.cn | Senior Member | 10 |
| Zhai | Guangtao | Shanghai Jiao Tong University | zhaiguangtao@stju.edu.cn | Senior Member | 10 |
| Zhang | Xiao-Ping | Ryerson University | xzhang@ee.ryerson.ca | Fellow | 7 |
| Zhang | Lei | Microsoft | leizhangcn@ieee.org | Fellow | 6 |
| Zheng | Wei-Shi | Sun Yat-sen University | zhwshi@mail.sysu.edu.cn | member | 10 |
| Zhou | Jiantao | University of Macau | jtzhou@umac.mo | Senior Member | 10 |
| Zhu | Ce | UESTC, China | eczhu@uestc.edu.cn | Fellow | 10 |

No updates were received from highlighted members.

Geographical distribution of TC members (percentage of total)

| | 2020 |
|---------------------------------------|------|
| Total number of TCs | % |
| Regions 1 – 6 (U.S.A.) | 20 |
| Region 7 (Canada) | 8 |
| Region 8 (Europe/Africa, Middle East) | 8 |
| Region 9 (Central/South America) | 8 |
| Region 10 (Asia/Pacific) | 62 |

Gender distribution of TC members (percentage of total)

| | 2020 |
|---------------------|------|
| Total number of TCs | % |
| Male | 82 |
| Female | 18 |

Distribution of TC members by affiliation (percentage of total)

| | 2020 |
|---------------------|------|
| Total number of TCs | % |
| Academia | 78 |
| Industry | 22 |
| Government | 0 |

3. Accomplished Technical Activities

3.1. IEEE Conference/Event organizations

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

| Your Name | Conference Sponsors | Conference/Event Title | Your Role |
|----------------------|------------------------------|------------------------|---|
| Moncef Gabbouj | IEEE CAS + 3 other societies | IEEE ICME 2021 | General Chair |
| Ivan Bajic | IEEE CAS + 3 other societies | IEEE ICME 2020 | Area Chair and Workshops Chair |
| Dong Liu | IEEE CAS + 3 other societies | IEEE ICME 2021 | Publicity Chair |
| Vladan Velisavljevic | IEEE CAS + 3 other societies | IEEE ICME 2020 | General Co-chair, Workshop Organizer & Co-chair |
| Junhui Hou | IEEE CAS | IEEE VCIP 2020 | Publication co-chair and Area Chair |
| Junhui Hou | IEEE CAS + 3 other societies | IEEE ICME 2020 | Area Chair, Special session organizer & Publicity Chair |
| Jiaying Liu | IEEE CAS + 3 other societies | IEEE ICME 2021 | TPC Chair |
| Zhibo Chen | IEEE CAS | VCIP 2020 | Area chair |
| Zhibo Chen | IEEE CAS | ISCAS 2021 | Track Chair |
| Zhibo Chen | IEEE CAS | ISCAS 2020 | Session Chair |
| Ivan Bajic | IEEE CAS | IEEE ISCAS 2021 | Review Committee Member |
| Wei-Ta Chu | IEEE CAS | IEEE ISCAS 2021 | Review Committee Member |

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|-------------------------|------------------------------|--|--|
| Jingjing Meng | IEEE CAS | IEEE ISCAS 2021 | Review Committee Member |
| Lei Zhang | IEEE CAS | IEEE ISCAS 2021 | Review Committee Member |
| Dong Liu | IEEE CAS + 3 other societies | IEEE ICME 2021 | Chair of Special Session "Towards Next-Generation Video Coding Techniques" |
| Wu Liu | IEEE CAS | IEEE ISCAS 2021 | Session Chair of Emerging AID Multimedia Applications & Implementations, Review Committee Member |
| Wu Liu | IEEE CAS + 3 other societies | IEEE ICME 2021 | Organizer of The 3rd Grand Challenges of 106-Point Facial Landmark Localization |
| Li-Wei Kang | IEEE CAS | ISCAS 2021 | Review Committee Member |
| Li-Wei Kang | IEEE CAS | ICME 2021 | TPC Member |
| Luciano Agostini | IEEE CAS | IEEE ICECS 2020 | Track Chair |
| Luciano Agostini | IEEE CAS + 5 other societies | SBCCI 2020 | Track Chair |
| Luciano Agostini | IEEE CAS | IEEE AICAS | RCM |
| Wen-Huang Cheng | IEEE CAS + 3 other societies | IEEE ICME 2020 | TPC Co-chair |
| Wen-Huang Cheng | IEEE CAS + 3 other societies | IEEE ICME 2021 | Industry Expo Co-chair |
| Wen-Huang Cheng | IEEE CAS + 3 other societies | IEEE ICME 2022 | General Co-chair |
| Wen-Huang Cheng | IEEE CAS | ISCAS 2021 | Lecturer of Overview Lecture |
| Chia-Wen Lin | IEEE CAS | IEEE ICME | Steering Committee Chair |
| Dong Tian | IEEE CAS + 3 other societies | IEEE ICME 2021 | Industry chair |
| John See | IEEE CAS | IEEE International Conference on Multimedia and Expo (ICME) 2020 – Second International Workshop on Big Surveillance Data Analysis and Processing (BIG-Surv) | Workshop Organizing Co-Chair |
| Jiantao Zhou | IEEE CAS | IEEE ISCAS | RCM |
| Xiao-Ping Zhang | IEEE SPSS | ICASSP2021 | General Chair |
| Ying Li | IEEE CAS | VCIP 2022 | Finance Co-chair |
| Ying Li | IEEE CAS | VCIP 2023 | Publicity Co-chair |
| Iraklis Anagnostopoulos | IEEE CAS | IEEE International Symposium on Circuits and Systems (ISCAS) | Reviewer Committee member |
| Iraklis Anagnostopoulos | IEEE CAS | IEEE Asia Pacific Conference on Circuits and Systems (APCCAS) | Technical Program Committee Member |
| Iraklis Anagnostopoulos | IEEE CAS | IEEE International Conference on Electronics Circuits and Systems (ICECS) | Technical Program Committee Member |
| Jie Liang | IEEE CAS | ISCAS 2021 | Reviewer Committee member |

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|---------------|------------------------------|--|--|
| Wei Hu | IEEE CAS + 3 other societies | IEEE ICME 2021 | Open Source chair |
| Wei Hu | IEEE CAS + 3 other societies | IEEE ICME 2020 | Special session organizer & Area Chair |
| Jiwen Lu | IEEE CAS | ICME 2020 | Program Co-Chair |
| Marta Mrak | IEEE CAS, SPS, CS, ComSoc | ICME 2020 | General Chair |
| Marta Mrak | IEEE CAS, SPS, CS, ComSoc | ICME 2021 | Panel Chair |
| Chong Luo | IEEE CAS | ISCAS 2021 | Reviewer Committee Member |
| Dan Zeng | IEEE CAS, SPS, CS, ComSoc | ICME 2021 | Sponsor Chair |
| Wei-Shi Zheng | IEEE CAS | IEEE International Conference on Multimedia and Expo (ICME) | Area Chair |
| Ce Zhu | IEEE CAS, CS, ComSoc, SPS | IEEE International Conference on Multimedia and Expo (ICME) 2020 | Technical Program Co-Chair |
| Samson Cheung | IEEE CAS | ISCAS 2020 | Track Chair |
| Samson Cheung | IEEE CAS | ISCAS 2021 | Track Chair |
| Shuai Wan | IEEE CAS | VCIP 2020 | review committee members (Meta Review) |

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

| Your Name | Conference Sponsors | Conference/Event Title | Your Role |
|-------------------------|---------------------|---|------------------------------------|
| Iraklis Anagnostopoulos | IEEE CAS | Asia and South Pacific Design Automation Conference (ASP-DAC) | Technical Program Committee Member |
| Iraklis Anagnostopoulos | IEEE CAS | IEEE International Symposium on Quality Electronic Design (ISQED) | Technical Program Committee Member |
| Iraklis Anagnostopoulos | IEEE CAS | Design Automation Conference (DAC) | Technical Program Committee Member |

Please don't report conference/events are NOT 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://ieee-cas.org/publications>)

| Your Name | Journal Sponsors | Journal Title | Your Role |
|---------------|------------------|---|----------------------------------|
| Samson Cheung | IEEE CAS | IEEE Transactions on Multimedia | AE, Member of Steering committee |
| Samson Cheung | IEEE CAS | IEEE Open Journal of Circuits and Systems (OJCAS) | AE |

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|----------------------|----------|--|---|
| Luciano Agostini | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) | AE |
| Luciano Agostini | IEEE CAS | IEEE Open Journal of Circuits and Systems (OJCAS) | AE |
| Luciano Agostini | IEEE CAS | IEEE Transactions on Circuits and Systems I (TCAS I) | Guest Editor |
| Wen-Huang Cheng | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Jie Chen | IEEE CAS | IEEE Transactions on Biomedical Circuits and Systems | AE |
| Jiwen Lu | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Enrico Magli | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE, member of TCSVT 2020 best paper award committee |
| Jiwen Lu | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Enrico Magli | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE, member of TCSVT 2020 best paper award committee |
| Jiwen Lu | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Jian Zhang | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Lei Zhang | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Lei Zhang | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Yap-Peng Tan | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Jingjing Meng | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Tao Mei | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Vladan Velisavljevic | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Junhui Hou | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Jiaying Liu | IEEE CAS | IEEE Transactions on Circuits and Systems for Video Technology | AE |
| Zhibo Chen | IEEE CAS | IEEE Trans. on Circuits and Systems for Video Technology | AE |
| Wen-Huang Cheng | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Xian-Sheng Hua | IEEE CAS | IEEE Transactions on Multimedia | Special Issue Guest Editor |
| Marta Mrak | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Chang-Su Kim | IEEE CAS | IEEE Transactions on Multimedia | AE |
| Dan Zeng | IEEE CAS | IEEE Transactions on Multimedia | AE |

Please don't report journals are NOT 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 |
|---------------|--|-----------|
| Junsong Yuan | IEEE Fellow | 2021 |
| Samson Cheung | IEEE Fellow | 2020 |
| Junhui Hou | IEEE ICME 2020 Outstanding Area Chair | 2020 |
| Ivan Bajic | IEEE ICME 2020 Outstanding Area Chair | 2020 |
| Jiaying Liu | Best paper Award, IEEE International Conference on Multimedia & Expo (ICME) 2020 | July 2020 |
| Jiaying Liu | Best Reviewer, IEEE Trans. Multimedia | Jan. 2021 |

| | | |
|------------------|---|-----------|
| Bing-Kun Bao | IEEE ICME 2020 Outstanding Area Chair Award | 2020 |
| Luciano Agostini | Best Paper Award - 33 rd Symposium on Integrated Circuits and Systems Design (SBCCI) | 2020 |
| Wen-Huang Cheng | Outstanding Associate Editor, IEEE Transactions on Multimedia | 2020 |
| Xiao-Ping Zhang | Fellow of IEEE | 2021 |
| Xiao-Ping Zhang | CASS Distinguished Lecturer | 2021-2022 |
| Wei Hu | Best Student Paper Runner Up Award, IEEE International Conference on Multimedia & Expo (ICME) 2020 | July 2020 |
| Marta Mrak | "Certificate of Merit" for dedication and leadership in organizing the IEEE ICME 2020 – by CAS and other sponsoring societies | 2020 |
| Ce Zhu | IEEE ICME 2020 Best Paper Runner Up Award | 2020.07 |

3.4. Keynote Speeches/Invited Talks:

| Your Name | Invited by | Event/Conference Title | Talk Title | Date |
|----------------------|--|--|--|--------------|
| Vladan Velisavljevic | ISCAS 2021 OC | IEEE ISCAS 2021 | Compression Distortion and Refocusing Analysis in 3D Imaging | May 26, 2021 |
| Li-Wei Kang | National Tsing Hua University, Taiwan | Seminar of Communications Engineering, National Tsing Hua University | Image Restoration: From Sparse Coding to Deep Learning | 2020/12/18 |
| Li-Wei Kang | Fu Jen Catholic University, Taiwan | Seminar of Computer Science, Fu Jen Catholic University | Image Restoration: From Sparse Coding to Deep Learning | 2020/12/16 |
| Li-Wei Kang | National Taiwan Ocean University, Taiwan | Seminar of Electrical Engineering, National Taiwan Ocean University | Image Restoration: From Sparse Coding to Deep Learning | 2021/01/05 |
| Li-Wei Kang | Academia Sinica, Taiwan | Seminar of Taiwan International Graduate Program, Academia Sinica | Image Restoration: From Sparse Coding to Deep Learning | 2021/05/31 |
| Li-Wei Kang | Fu Jen Catholic University, Taiwan | Seminar of Computer Science, Fu Jen Catholic University | Image Restoration: From Sparse Coding to Deep Learning | 2020/12/16 |
| Luciano Agostini | Sardar Vallabhbhai National Institute of Technology | Expert Talk in Celebration of Diamond Jubilee Year - Sardar Vallabhbhai National Institute of Technology - India | State-of-art Video Encoders VVC and AV1: Algorithmic Optimizations and Hardware Design | 3/26/2021 |
| Luciano Agostini | Brazilian Computer Society Brazilian Microelectronics Society | XXII Brazilian South School of Microelectronics | Microprocessors and Systems-on-a-Chip (in Portuguese) | 4/28/2020 |

| | | | | |
|-------------------------|--|---|--|-------------------|
| Luciano Agostini | Brazilian Computer Society Brazilian Microelectronics Society | XXIII Brazilian South School of Microelectronics | Why Do We Need Microelectronics to Watch, Generate and Share Videos? | 4/29/2021 |
| Xiao-Ping Zhang | IEEE CAS Society | IEEE Webinar, Distinguished Lecture | Localization and Tracking for Internet of Things | March 2, 2021 |
| Iraklis Anagnostopoulos | Jorg Henkel | Karlsruhe institute of technology | Advancing the customization and unlocking the potentials of future computing systems | January 2021 |
| Jie Liang | IEEE Industrial Electronics Society | Invited Talk at the 4th IEEE International Conference on Industrial Cyber-Physical Systems (ICPS) | Activity Monitoring Using Smart Visual Sensor | May 12, 2021. |
| Marta Mrak | Prof. Bruno Zatt (UFPEL), Prof. Luciano Agostini (UFPEL) | IEEE SPS/CASS Seasonal School on Digital Processing of Visual Signals and Applications (DPVSA) | Learning to predict pixels for content enhancement and delivery | October 19, 2020 |
| Marta Mrak | Dr Laura Toni (UCL) | Seminar @ Institute of Communications and Connected Systems, University College London | Towards more efficient video compression and enhancement with machine learning | July 29, 2020 |
| Marta Mrak | Ezra Eeman (EBU) | AI for Content Creation, European Broadcasting Union | Visual Data Enhancements | February 09, 2021 |
| Marta Mrak | Yiannis Kompatsiaris (CERTH) | AI4Media workshop on GANs for Media Content Generation | Learning to Predict Pixels Using AI for Content Enhancement and Delivery | October 01, 2020 |
| Marta Mrak | Prof. Anil Kokaram (TCD) | Seminar @ Trinity College Dublin, Ireland | Video Engineering R&D at the BBC | March 02, 2021 |
| Wenjun Zeng | Workshop Chair | <i>ICPR 2020 workshop: HCAU 2020 - The First International Workshop on Deep Learning for Human-Centric Activity Understanding</i> | Human centric spatial understanding | Jan. 2021 |
| Ce Zhu | DMCIT | DMCIT 2021: The 5th International Conference on Data Mining, Communications and Information Technology | Substitute Training for Black-Box Adversarial Attacks: A GAN-based Approach without Any Real Training Data | 17 Apr. 2021 |
| Ce Zhu | CCISP | CCISP 2020: The 5th International Conference on Communication, Image and Signal Processing | Rate Distortion Optimization in Video Coding: from Local to Global | 14 Nov. 2020 |

3.5. Other distinguished IEEE services

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

| Your Name | Organization | Position/Activities | Period |
|---------------|--------------|---------------------|-----------|
| Samson Cheung | IEEE CAS | MSA-TC Chair | 2019-2021 |

| | | | |
|-----------------|--|--|-----------------|
| Samson Cheung | IEEE CAS | Steering Committee Member of IEEE Transactions of Multimedia | 2019-2021 |
| Moncef Gabbouj | IEEE SP | IEEE ICIP General Chair | 2020 |
| Zhibo Chen | VSPC-TC | Secretary | 2020.08-2022.08 |
| Dong Tian | IEEE SP | IEEE MMSP 2020 General Co-Chair | 2020 |
| Dong Tian | IEEE SP | IEEE ICIP 2020 Session Chair | 2020 |
| Xiao-Ping Zhang | SPS IVMSPTC | Vice Chair/Chair-elect | 2020-2021 |
| Marta Mrak | IEEE CAS / SPS | ICME Steering Committee Non-voting Member | 2020-2021 |
| Marta Mrak | IEEE SPS | MMSP TC Chair | 2020-2021 |
| Marta Mrak | IEEE SPS | Technical Directions Board Member | 2018-2021 |
| Marta Mrak | IEEE SPS | AE IEEE Trans. Image Processing | 2019-2021 |
| Marta Mrak | IEEE SPS | Conference Board Member | 2021- |
| Wenjun Zeng | IEEE Jack S. Kilby Signal Processing Medal Committee | member | 2018-2021 |
| WEN Yonggang | IEEE International Conference on Multimedia & Expo (ICME'20) | Area TPC member | July 6-10, 2020 |
| Ce Zhu | IEEE International Conference on Multimedia and Expo (ICME) Steering Committee | Member | 2019-2020 |
| Wei-Shi Zheng | IEEE CS | Area Chair of IEEE Conference of Computer Vision and Pattern Recognition | 2020 |
| Wei-Shi Zheng | IEEE CS | Area Chair of International Conference of Computer Vision | 2020 |

5. TC Significant Technical Leadership and Innovations

Please list 5 (or less) most significant TC 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 or the TC members

1. [Seasonal School] The 4th IEEE SPS/CASS Seasonal School on Digital Processing of Visual Signals and Applications (DPVSA)
 - o Date: Oct. 19 – 21, 2020
 - o Organizers: Luciano Agostini and Bruno Zatt, UFPel, Brazil
 - o Site: <https://wp.ufpel.edu.br/dpvsa/>

- Attendees: 350
- 2. [ICME Fast-Track to 4 Journals] Marta Mrak, ICME 2020 General Chair - Collaboration between ICME and TMM resumed in the preparation for ICME 2020, this time in close collaboration with Lead Technical Program Committee Chair Shuai Wan (also MSA member). Based on the positive experience with TMM in 2019, in 2020 additional collaboration between ICME and 3 other journals and magazines have been enabled, so that extended versions of best contributions from ICME are then fast-tracked in extended format. The 4 journals and magazines which now accept submissions of the best ICME 2020 contributions in extended versions are:
 - Transactions on Multimedia (CAS, CS, ComSoc, SPS)
 - Open Journal of Circuits and Systems (CAS)
 - Signal Processing Magazine (SPS)
 - MultiMedia Magazine (CS)
- 3. [Virtual ICME] - ICME 2020 was organized as the first fully virtual ICME with all live sessions and recording available on demand after each session. This enabled discussions and networking even though many participants were at their homes. Registrations which were not covering publication of papers were free, thus enabling the wider community to participate in ICME.
- 4. TC member Jingdong Wang was one of the GEs of TMM's Special Issue on Multimedia Computing with Interpretable Machine Learning (Vol. 22, No. 7, July 2020): # submissions = 102; # published papers = 17
- 5. TC member Professor Jay Kuo won an Emmy 2021 Award in February 2021. Prof Kuo won a Tech & Engineering Emmy for his collaboration with Netflix which involved a new video quality assessment method that can also be used for coding optimization.

6. TC CHARTER:

- (1) How can your TC amend the TC name/scope/charter, if the ballots are collected at a TC meeting or by internet? What is the quorum for a valid ballot? What is the required % to pass the amendment?

The charter already contains provision for Internet Ballot so no amendment is needed. For an internet ballot, voting by a minimum one half of the TC members is a valid ballot and a two-thirds majority is required to pass the motion. For ballot at a TC meeting, a special quorum of the ceiling function of one-half of the TC is required with a two-thirds majority is required to pass the motion.

- (2) How can your TC select the TC Chair? Does the Chair-Elect is elected 1 year or 2 years earlier? Do you allow an out-of-sequence election for the Chair (if the Chair-Elect cannot assume the role of Chair)?

According to our established charter, the Chair-Elect is elected by the TC members 2 years prior to becoming the Chair. The election of the Chair-Elect is done according to the following process. An open call for nominations for the Chair-Elect position shall be made. Nominations for Chair-Elect shall be restricted to individuals who are currently serving or have previously served as committee members within the past 5 years. Chair-Elect elections will take place every two years and results shall be finalized by 15 July of the election year. An out-of-sequence election for the Chair can be held should the Chair-Elect be unable to assume the role of Chair.

- (3) Does the TC have a membership structure that specifies the number of years and terms that a member can serve?

According to our established charter, a TC member can serve a term of four-years, starting 1 September. Current members are eligible to be nominated for a second term, but additional terms will need at least a 1 year gap in service.