# IEEE Technical Committee on Multimedia Computing (TCMC)

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TCMC
IEEE Technical Committee
on Multimedia Computing

# TCMC Information

- TCMC received excellent reviews (highest designation) by the Technical and Conferences Activities Board in **six** consecutive years

- TC website

https://tc.computer.org/tcmc/

# 9 Special Interest Groups

- **SIGMUSP (SIG on Multimedia Security and Privacy)**
- **SIGMDM (SIG on Multimedia Data Mining)**
- **SIGSMM (SIG on Semantic Multimedia Management)**
- **SIGASP (SIG on Audio and Speech Processing for Multimedia)**
- **SIGMTEL (SIG on Multimedia Technologies for E-Learning)**
- **SIGVA (SIG on Video Analytics)**
- **SIGBIGMM (SIG on Big Multimedia)**
- **SIGVC (SIG on Visual Computing)**
- **SIGWM (SIG on Women in Multimedia Computing)**

# Main Activities and Programs

- Financial co-sponsored and Technical co-sponsored **more than 12 different** IEEE international conferences in 2019 and 2020, including:
  - ICME (IEEE International Conference on Multimedia and Expo)
  - MIPR (IEEE Conference on Multimedia Information Processing and Retrieval)
    - TCMC founded
  - ISM (IEEE International Symposium on Multimedia)
    - TCMC founded
  - BigMM (IEEE International Conference on Multimedia Big Data)
    - TCMC founded
  - IRI (IEEE International Conference on Information Reuse and Integration)
  - etc.

# Main Activities and Programs (Cont.)

- Recent initiatives
  - MIPR Conference (IEEE Conference on Multimedia Information Processing and Retrieval)
    - 2018 at Miami, FL, USA
      - Retreat: Discussed future directions and opportunities of multimedia research
    - 2019 at San Jose, CA, USA
    - 2020 at Shenzhen, China (turned into a virtual conference)
    - 2021 at Tokyo, Japan
    - Goal: to have a high-quality IEEE multimedia conference
    - Regular paper acceptance rate <= 20%

# Main Activities and Programs (Cont.)

- Recent initiatives (Cont.)
  - TCMC Awards: to nurture TCMC members through various stages of their careers and help them achieve their highest potential
    - IEEE TCMC Rising Star Award
    - IEEE TCMC Mid-Term Career Award
    - IEEE TCMC Impact Award
    - IEEE TCMC Test of Time Award
    - IEEE TCMC Service Award

    https://tc.computer.org/tcmc/tcmcawardsrecipients/

# IEEE TCMC Awards 2020

### IEEE TCMC Impact Award

Jay Kuo, University of Southern California, USA

For outstanding contributions to multimedia computing technologies in terms of research & development and as an inspiring educator.

### IEEE TCMC Rising Star Award

Lianli Gao, University of Electronic Science and Technology of China, China

For contributions towards improving visual understanding by integrating natural language processing techniques.

### IEEE TCMC Service Award

Sethuraman Panchanathan, Arizona State University, USA

For outstanding service to the multimedia community and pioneering contributions to assistive technology and haptics.

# Main Activities and Programs (cont.)

- Co-founded BAY AREA MULTIMEDIA FORUM (BAMMF: www.bammf.org/)
  - Co-founders include TCMC past chairs
    - Prof. Phil Sheu and Prof. Shu-Ching Chen
  - 14 events since 2013 but had one gap year in 2019.
    - Expected to restart in 2020 …
  - Experts from both academia and industry are invited to exchange ideas and information through talks, tutorials, panel discussions and networking sessions
  - Topics of the forum include
    - emerging areas in multimedia
    - advancement in algorithms and development
    - demonstration of new inventions
    - productization of technologies
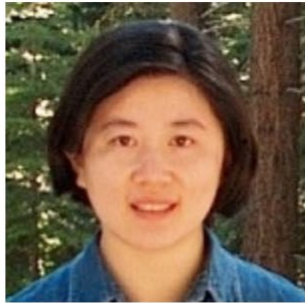    - business opportunities, new business ideas
    - etc.

# BAMMF Organizing Committee
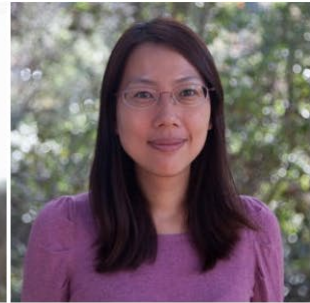
**Organizing Members**



Qiong Liu     Tong Zhang     BeeYian Liew     Yang Lei     YanYing Chen

Roy Wang

# Main Activities and Programs (cont.)

- Nominate members for IEEE and IEEE CS awards
- Closely work with IEEE MultiMedia Magazine which is 100% CS sponsored magazine
  - **impact factor: 4.962**
  - Solicited several special issues for IEEE MultiMedia Magazine
- Organized special issues with other journals
  - IEEE Transactions on Multimedia (TMM)
  - International Journal on Multimedia Data Engineering and Management (IJMDEM)
  - etc.

# Main Activities and Programs (cont.)

- Student Scholarships to attend TCMC-sponsored conferences!
  - Cover all or part of the travel expense to TCMC-sponsored conferences
  - MIPR, IRI, ISM, ICME, etc.

# Main Activities and Programs (cont.)

- Deepened the TC's presence in IEEE Transactions on Multimedia
  - Call for Associate Editors
    - Send the application package to the TCMC Chair
- Held Executive Committee meetings annually
  - MIPR (March 2019, San Jose, CA, USA)
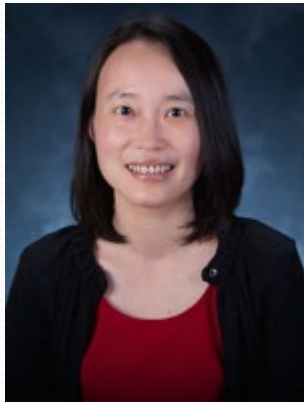
# Opportunities for TC/CS Growth

- Distributed TCMC recruitment flyers at major multimedia conferences including IEEE MIPR, ICME, CVPR, etc.

- Proactively recruited new members through personal (email) invitations, especially to those from under-represented groups.

- Recruited new members through collaboration with other TCs and societies including IEEE TCSEM, IEEE SMC, and SIRI.

# Increase TC Member Participation

- The TC has a monthly newsletter, subscribed and distributed by email and web portal, which
  - informs TC members and other subscribers about how to subscribe, and relevant events concerning the community, including various calls for conferences and journals and call for participation of TCMC general meetings.
- We also submitted some of our news and event announcements for inclusion in the Computer Society's "**Member Connection**" and "**Conference Connection**" **newsletters**, as well as **CS Social Networking tools**.

# Our Newsletter Editor

- Dr. Min Chen (UW, [minchen2@uw.edu](mailto:minchen2@uw.edu))



You may send to Dr. Chen any news item (events, short technical reviews of emerging research, CFPs, etc.) you may want to share with TCMC members (subject to moderation.)

# Call for Papers - Conferences

- IEEE 4th Conference on Multimedia Information Processing and Retrieval (MIPR2020), Tokyo, Japan
  - https://www.mipr2021.org/
- IEEE International Conference on Multimedia & Expo (ICME 2021), Shenzhen, China
  - www.2021.ieeeicme.org
- IEEE International Symposium on Multimedia (ISM 2020), Naples, Italy, December 2-4, 2020 (turned into virtual)
  - https://www.ieee-ism.org/

# Call for Papers - Journals

- IEEE MultiMedia Magazine
  - EIC: Prof. Shu-Ching Chen (a former TCMC chair)
- IEEE Transactions on Multimedia
  - EIC: Prof. Jiebo Luo
- International Journal of Multimedia Data Engineering and Management (IJMDEM)
  - EICs: Prof. Chengcui Zhang and Prof. Shu-Ching Chen

# How to join TCMC?

- https://tc.computer.org/tcmc/join-tcmc/
- **Cost $0!!!**
  - Computer Society and IEEE members will use their usual IEEE web account login to access membership products and renew.
  - Nonmembers can create an IEEE web account to join any TC.

# IEEE ⬭ computer society

## Technical Committee on Multimedia Computing (TCMC)

**TCMC**

IEEE Technical Committee on Multimedia Computing

IEEE TC on Multimedia Computing (TCMC) is related to interest in all aspects of hardware and software systems that bring about the synchronization of a variety of different types of media such as audio, video, text, and animation to convey information.

TCMC was established to assist researchers and practitioners in related fields to promote multimedia computing research, technologies and applications. TCMC will provide technical advice on the full range of multimedia research and development directions, challenges, opportunities, emerging topics, and priorities.

**TCMC Website**
https://tc.computer.org/tcmc/

**Executive Committee**

Dr. Jeffrey J. P. Tsai
President
Asia University
Taiwan, R.O.C.

Dr. Phillip Sheu
Department of EECS
University of California, Irvine
Irvine, CA 92697

Dr. Max Muehlhaeuser
Technology University of
Darmstadt, Germany

Dr. Arif Ghafoor
Department of Electrical and
Computer Engineering
Purdue University, USA

Dr. Shu-Ching Chen
School of Computing and
Information Sciences
Florida International
University, USA

Dr. Mei-Ling Shyu
Department of Electrical and
Computer Engineering
University of Miami, USA

## TCMC MEMBER BENEFITS:

- **FREE MEMBERSHIP** with Computer Society Membership!
- Publish monthly newsletter providing useful information to members such as conferences, journal special issues, funding opportunities, job opportunities, research trends, new technologies, and new tools, etc.
- Maintain an up-to-date web portal, and communicate with the membership via the annual report
- Identify and recruit energetic volunteers and recommend them to leading multimedia conferences as organizing committee members and/or program committee members
- Promote TCMC members for various prestigious IEEE awards
- Provide opportunities for graduate students and young researchers to get to know their peer and also interact with the leaders in the fields

**CONTACT US TODAY!**

**TCMC CHAIR**

Dr. Chengcui Zhang

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**JOIN TCMC TODAY!**

https://www.computer.org/communities/technical-committees/tcmc

Questions?
Suggestions?