

Call for papers

Multimedia Computing and Communications Symposium (MCC)

IEEE ICNC 2019

Honolulu, Hawaii, USA, Feb 18-21, 2019

<http://www.conf-icnc.org/2019/>

Symposium Co-chairs

Shervin Shirmohammadi, University of Ottawa, Canada, shervin@ieee.org

Carsten Griwodz, University of Oslo, Norway, & Simula Research Laboratory, Norway, griff@ifi.uio.no

Pradeep K Atrey, State University of New York at Albany, USA, patrey@albany.edu

Scope

The Multimedia Computing and Communication Symposium will focus on topics related to all aspects of Multimedia Systems, Multimedia Understanding, and Multimedia Experience. Papers that report on theoretical advancements and/or practical contributions to the field are sought. Of special interest are papers that report on complete multimedia systems with real-world experimental results and real data sets. The specific topics of interest include, but are not limited to, the following:

- performance, quality of service, and quality of experience in multimedia applications
- human-centered multimedia
- crowdsourcing within mobile multimedia applications
- 360 degree, multiview, panoramic, and tiled video
- 3D, virtual/augmented reality, VFX, and immersive multimedia
- video conferencing, remote collaboration, and telepresence
- music, speech, and audio coding and streaming
- image, and video coding and streaming
- 3D analysis and modeling for multimedia
- multimedia analysis and description
- deep learning / machine learning / AI for multimedia
- social multimedia and social signals
- multimedia search and recommendation
- multimedia big data, large-scale multimedia indexing and ranking
- knowledge discovery from massive multimedia data
- multimedia and multi-modal analysis for vision applications
- scene analysis and object recognition for multimedia understanding
- multimodal approaches to complex activity detection and event analysis
- multimodal/multisensor 360 degree video content analysis
- multimodal feature extraction, representation, and fusion
- multimedia systems, communications, transport, networking, and delivery
- real-time, and embedded multimedia
- mobile, wireless, 4G, 5G, Low-Power Wide-Area Network (LPWAN), and LiFi multimedia
- power-aware mobile multimedia services and applications
- gesture- and tangible-based interaction
- multi-device, multi-display interaction
- wearable devices in multimedia systems and applications
- Software-Defined Networking (SDN) and Software-Defined Everything (SDx) support for multimedia systems
- vehicle-based multimedia systems
- peer-to- peer multimedia and applications
- multimedia systems for IoT
- GPUs and FPGAs in multimedia systems
- multimedia management systems
- multimedia scalability
- multimedia middleware
- multimedia security and privacy

Submission Guidelines

Please follow the author instructions at <http://www.conf-icnc.org/2019/author.htm>

Direct paper submission for this symposium can be found at <http://www.conf-icnc.org/2019/cfp.htm>

Short biography of co-chairs

Shervin Shirmohammadi received his Ph.D. in Electrical Engineering from the University of Ottawa, Canada, where he is currently a Professor with the School of Electrical Engineering and Computer Science. He is Director of the Distributed and Collaborative Virtual Environment Research Laboratory, doing research in multimedia systems and networks, specifically video systems, gaming systems, and multimedia-assisted healthcare systems. The results of his research, funded by more than \$13 million from public and private sectors, have led to over 300 publications, over 70 researchers trained at the postdoctoral, PhD, and Master's levels, over 20 patents and technology transfers to the private sector, and a number of awards. He is the Editor-in-Chief of *IEEE Transactions on Instrumentation and Measurement*, an Associate Editor of *IEEE Transactions on Circuits and Systems for Video Technology*, an Associate Editor of *ACM Transactions on Multimedia Computing Communications and Applications*, and was an Associate Editor of Springer's Journal of Multimedia Tools and Applications from 2004 to 2012.

He is a Key Member of the IEEE MMTC Multimedia Cloud Computing Interest Group, member of the IEEE CS Technical Committee on Multimedia Computing (TCMC), and member of the IEEE ComSoc Technical Committee on Multimedia Communications (MMTC). Dr. Shirmohammadi is an IEEE Fellow for contributions to multimedia systems and network measurements, a Lifetime Senior Member of the ACM, a University of Ottawa Gold Medalist, and a licensed Professional Engineer in Ontario.

Carsten Griwodz is professor at the University of Oslo and Chief Research Scientist at Norwegian research company Simula Research Laboratory AS, Norway. He is also co-founder of ForzaSys AS, a media company for sports. His research interest is the performance of multimedia systems. His goal is to understand how users can become sufficiently immersed in an experience depending on their goals and context. He explores research advances in fields ranging from operating system and networks to computer vision to understand and reach the point of sufficient immersion. He has led various national and European research projects and is currently project leader of the European Horizon 2020 project LADIO. He has supervised more than 20 PhD and more than 100 MSc students. He received his Diploma in Computer Science from the University of Paderborn, Germany, in 1993. From 1993 to 1997, he worked at the IBM European Networking Center in Heidelberg, Germany. In 1997 he joined the Multimedia Communications Lab at Darmstadt University of Technology, Germany, where he obtained his doctoral degree in 2000. He joined the University of Oslo in 2000 and Simula Research Laboratory in 2005. He is member of ACM since 1996 and IEEE since 2011.

Pradeep K. Atrey is an Associate Professor at the State University of New York, Albany, NY, USA. He is also the founding co-director of Albany Lab for Privacy and Security (ALPS). He also holds adjunct professorship at University of Ottawa, Canada. Previously he was an Associate Professor at the University of Winnipeg, Canada. He received his Ph.D. in Computer Science from the National University of Singapore. He was a postdoctoral researcher at the Multimedia Communications Research Laboratory, University of Ottawa, Canada. His current research interests are in the area of security and privacy with a focus on multimedia surveillance and privacy, multimedia security, secure-domain cloud-based large-scale multimedia analytics, and social media. He has authored/co-authored over 120 research articles at reputed ACM, IEEE, and Springer journals and conferences. His research has been funded by Canadian Govt. agencies NSERC and DFAIT, and by Govt. of Saudi Arabia. Dr. Atrey is on the editorial board of several journals including ACM Trans. on Multimedia Computing, Communications and Applications, Elsevier Image Communication, Wiley ETRI Journal and IGI International Journal of Digital Crime and Forensics. He has been associated with over 60 international conferences/workshops in various roles such as General Chair, Program Chair, Area Chair, Publicity Chair, Web Chair, Demo Chair and TPC Member. Dr. Atrey has received many awards including the ACM TOMM Associate Editor of the Year (2015), and the Erica and Arnold Rogers Award for Excellence in Research and Scholarship (2014). He was also recognized as the ACM Multimedia Rising Star (2015).