Message from the MIPR 2018 Program Co-Chairs

Welcome to the proceedings of the IEEE 1st Conference on Multimedia Information Processing and Retrieval (MIPR) in Miami, USA. New forms of multimedia data (such as text, numbers, tags, networking, signals, geo-tagged information, graphs/relationships, 3D/VR/AR and sensor data, etc.) have emerged in many applications in addition to traditional multimedia data (image, video, audio). Multimedia has become the “biggest of big data” as the foundation of today’s data-driven discoveries. Almost all disciplines of science and engineering, as well as social sciences, involve multimedia data in some forms, such as recording experiments, driverless cars, unmanned aerial vehicles, smart communities, biomedical instruments, security surveillance. Some recent events demonstrate the power of real-time broadcast of unfolding events on social networks. Multimedia data is not just big in volume, but also multi-modal and mostly unstructured. Storing, indexing, searching, integrating, and recognizing from the vast amounts of data create unprecedented challenges. Even though significant progress has been made in processing multimedia data, today’s solutions are inadequate in handling data from millions of sources simultaneously. This conference provides a forum for original research contributions and practical system design, implementation, and applications of multimedia information processing and retrieval for single modality or multiple modalities. A collection of retreat/open panels, keynotes, and workshops will be held, together with paper/poster/demo sessions.

The MIPR 2018 conference received submissions from authors spanning 16 countries. Every submission was assigned to at least three members of the international Program Committee to review and discuss. Only the high-quality papers are accepted as full regular research papers, with an acceptance rate of 19.5%. In addition, the proceedings feature high-quality short papers, industrial papers, demo papers, posters, and special session papers that present “Wild and Crazy Ideas.” Further, we have included a select set of invited papers to enrich our program. All of these papers provide novel ideas and state-of-the-art techniques in the field. The authors of accepted papers were asked to address the reviewers’ comments to improve the paper quality.

We are honored to have several of the world’s leading experts in the field join us as keynote speakers. We would like to thank our keynote speakers: Dr. Edward Y. Chang (President of HTC Research and Healthcare), Dr. Chang Wen Chen (IEEE Fellow, SPIE Fellow, Dean and Professor, School of Science and Engineering, The Chinese University of Hong Kong, China), Dr. Wen Gao (ACM Fellow, IEEE Fellow, Chinese Academy of Engineering; Professor, Peking University, China), Dr. Ramesh Jain (ACM Fellow, IEEE Fellow, AAAS Fellow, Professor, University of California, USA), and Dr. Klara Nahrstedt (ACM Fellow, IEEE Fellow, Professor, University of Illinois at Urbana-Champaign, USA). The keynotes and technical sessions cover a wide range of topics in multimedia research and applications including deep learning in multimedia, multimedia and healthcare, multimedia and vision, multimedia systems, and novel multimedia interfaces and applications, etc.

This year, we have three workshops that cover several emerging issues in the multimedia area: (1) FakeMM: IEEE International Workshop on Fake Multimedia, (2) MMPrag: IEEE International Workshop on Multimedia Pragmatics: A Cross-Fertilization of Content-Based Retrieval and Natural Language Processing, and (3) MR2AMC: IEEE International Workshop on Multimodal Representation, Retrieval, and Analysis of Multimedia Content. The selection of papers for these workshops was done separately from the main conference. Altogether, we are very proud to be able to present you with a rich program that contains a variety of top-notch research.
Many dedicated people have contributed to the success of IEEE MIPR 2018. First, please allow us to take this opportunity to thank all the authors for their submissions and presentations. Many participants travel great distances to contribute to this conference. Next, we want to express our sincere thanks to the Technical Program Committee members and external referees for their quality work in reviewing the submitted papers as well as their invaluable contributions and support. Further, our deepest thanks to Publications Chair Dr. Ju Shen (University of Dayton, USA); Workshop Co-Chairs Dr. Roger Zimmermann (National University of Singapore, Singapore), Dr. Wolfgang Huerst (Utrecht University, The Netherlands), Dr. Peng Cui (Tsinghua University, China), Dr. Shervin Shirmohammadi (University of Ottawa, Canada), and Dr. Toshihiko Yamasaki (The University of Tokyo, Japan); Finance Chair Dr. Min Chen (University of Washington Bothell, USA); Industry/Government/Application Track Co-Chairs Dr. Haohong Wang (TCL American, USA) and Dr. Tong Zhang (Intel, USA); Publicity Co-Chairs Dr. Jaouad Boumhid (University of Sidi Mohamed Ben Abdallah, Morocco), Dr. Rodrigo Capobianco Guido (São Paulo State University, Brazil), Dr. Xiaqing Lu (Peking University, China), Dr. Leonel Sousa (Universidade de Lisboa, Portugal), Dr. Atsuo Yositaka (JAIST, Japan), and Dr. Qiusha Zhu (Citi Bank, USA); Best Paper Award Co-Chairs Dr. Balakrishnan Prabhakaran (The University of Texas at Dallas, USA), Dr. Pablo Cesar (Centrum Wiskunde & Informatica, Netherlands), and Dr. Abdulfotaleb El Saddik (University of Ottawa, Canada); Demo Co-Chairs Dr. Ramazan Savas Aygun (University of Alabama in Huntsville, USA) and Dr. Jianquan Liu (NEC, Japan); Local Arrangement Chair and Web Master Dr. Hsin-Yu Ha (Florida International University, USA), and Panel Co-Chairs Dr. Phoebe Chen (La Trobe University, Australia) and Xilin Chen (Chinese Academy of Sciences, China) for their outstanding work. Our deepest appreciation also goes to our renowned keynote speakers and area co-chairs for sharing their vision, insights, and experiences.

We would like to extend our thanks and deepest appreciation to the organizers of the workshops. We would also like to express our deepest thanks to our General Chairs, Drs. Shu-Ching Chen and Mei-Ling Shyu, for their constant feedback, guidance, and unequivocal support throughout the organization of the conference.

In summary, it is the wonderful teamwork that brings this conference to its great success. We sincerely hope that you will enjoy our quality program and the wonderful city of Miami.

Chengcui Zhang, University of Alabama at Birmingham, USA
Yung-Hsiang Lu, Purdue University, USA
Yonghong Tian, Peking University, China
Mohan Kankanhalli, National University of Singapore, Singapore
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