Foreword

Welcome to the 11th ACM Multimedia Systems Online Conference (MMSys'20). For the past decade, the MMSys conference series has been a forum for researchers to present and share their latest research findings in multimedia systems. While research about specific aspects of multimedia systems are regularly published in the various proceedings and transactions of the networking, operating systems, real-time systems, databases, mobile computing, distributed systems, computer vision, and middleware communities, MMSys aims to cut across these domains in the context of multimedia data types. This provides a unique opportunity to investigate the intersections and the interplay of the various approaches and solutions developed across these domains to deal with multimedia data types.

While building on the successful format of past MMSys conferences, MMSys'20 introduces some novelties and extends the recently introduced initiatives. Beyond being the first online MMSys conference, the main novelties we would like to highlight for this year are:

- Largest support from the industry in MMSys' history, though the support is largely transferred to 2021
- First ever grand-challenge organization
- Highest portion of women in the organizing committee with also the first-ever female general co-chair, and a new role (diversity chairs) in the organizing committee
- Childcare support for attendees and many travel grants to young and diverse scholars
- Promotion of diversity through the organization of a special social session specifically targeted to underrepresented minorities, in collaboration with N2Women
- Continued support for open science and reproducibility through the open dataset and software track and the granting of ACM reproducibility badges

Based on the success of last year's model that included a series of workshops, we decided to co-locate the International Workshop on Immersive Mixed and Virtual Environment Systems (MMVE) the day before the main conference and NOSSDAV and Packet Video the day after. This gives the Multimedia Systems community the opportunity to attend all four events at one venue. This year's edition is a special one being the 25th anniversary for PV and 30th anniversary for NOSSDAV. Celebrations are in order and are postponed to MMSys'21.

An important goal of ours is to nurture diversity and inclusion at MMSys. For the first time in the history of MMSys, we have three diversity chairs fully devoted to building activities to achieve this goal. Thanks to their efforts and the generous support from SIGMM, we would be able to support a number of initiatives to increase diversity and inclusion, however, all the support will now be used next year. In collaboration with the N2Women network, we are also organizing a special social event to promote visibility and recognition of women in SIGMM fields, networking and mentoring between junior and senior researchers, and to build a networking SIGMM women community as a legacy for future events.

We have also continued initiatives that were successfully introduced in the past two years. First, with the goal to further grow the community and to broaden the scope of the conference, we encouraged submissions in the following focus areas: (i) machine learning and statistical modeling for video streaming, (ii) volumetric media: from capture to consumption, and (iii) fake media and tools for preventing illegal broadcasts. Second, to continue the support of scientific reproducibility through ACM's badging system, six papers from the research track, fifteen papers from the open dataset and software track, and three papers from the grand challenge went through this process and obtained an ACM badge.

We are delighted to see that MMSys has continued to be a venue that is of high interest to the research community. This was expressed by a total of 55 submissions in the research track. Out of the 55 submissions a total of 18 papers were accepted for publication. As in previous years, a high standard was applied for the review process. For the research track, the vast majority of the papers received four independent reviews. Decisions were taken based on the reviews and the discussion between the reviewers. Establishing such a rigorous, double-blind review process would not have been possible without the tireless efforts of the program committee. Apart from the research track, the demo, and the open dataset and source tracks received 16 submissions, each. This year's program also includes six keynotes.

Finally, after careful consideration and in light of the global health emergency, MMSys'20 will be held fully online, which is a first. We tried to carefully design the agenda and the technical infrastructure to ensure a pleasant experience for both the attendees and presenters. A great news is that the efforts invested in organizing MMSys'20 in Istanbul are not lost as next year's conference (MMSys'21) will be held in Istanbul.

We would like to thank everyone who contributed to the organization of the conference: The technical program committee, steering committee and organization team. We would also like to thank the authors who submitted their high-quality research to MMSys. We also thank the sponsors including ACM and SIGMM, and all of our supporters.

We hope that you enjoy the MMSys'20 online conference and have many fruitful discussions during the conference and co-located workshops. Looking forward to another decade of successful meetings on multimedia systems.

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