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Gervais Mendy · Samuel Ouya ·
Ibra Dioum · Ousmane Thiaré (Eds.)

e-Infrastructure and e-Services for Developing Countries

10th EAI International Conference, AFRICOMM 2018
Dakar, Senegal, November 29–30, 2019
Proceedings

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Preface

It is our pleasure to welcome you to the proceedings of the 10th European Alliance for Innovation (EAI) International Conference on e-Infrastructure and e-Services for Developing Countries (AFRICOMM 2018). The conference was held in the city of Dakar, Senegal, during November 29–30, 2018, following up on the success of past editions. The conference constitutes a forum for the presentation and discussion of the latest results in the field of e-infrastructure and e-services for developing countries and aims at providing research directions and fostering collaborations among the participants. Scientists, practitioners, students, and professionals met to discuss research and development of efficient and effective infrastructures and solutions in situations of limited resources.

This year, the technical program of AFRICOMM 2018 drew from a number of submissions: 49 papers submitted from 14 countries representing three regions—West Africa, Europe, and South America. In the first stage, all papers submitted were screened for their relevance and general submission requirements. These manuscripts then underwent a rigorous peer-review process with at least two or three reviewers, coordinated by the international Program Committee. The Program Committee accepted 36 papers out of 49 submissions. The accepted papers provide research contributions in a wide range of research topics including e-health, environment, cloud, VPN and overlays, networks, services, e-learning, agriculture, Iot, social media, mobile communication, and security. We believe that this volume not only presents novel and interesting ideas but also that it will stimulate future research in the area of infrastructures and services. In addition to the high-quality technical paper presentations, the technical program also featured two keynote speeches. The invited speakers were Georgia Bullen from the Open Technology Institute, USA, Stephen Soltész from Google, USA, and Prof. Yves Le Traon from the University of Luxembourg, Luxembourg. The IMRA (Internet Measurements Research in Africa) workshop at the conference aimed to address various aspects of mechanisms and challenges in measuring Africa's Internet topology.

Coordination with the conference manager, Andrea Piekova, was essential for the success of the conference. It was also a great pleasure to work with such an excellent organizing team, all of who did their parts in organizing and supporting the conference. We wish to express our deepest gratitude to all the Technical Program Committee, led by our TPC co-chairs, Dr. Ibra Dioum and Prof. Ousmane Thiaré, the publication chair, Dr. Tegawendé Bissyandé, and the external reviewers for their excellent job in the paper review process. Without their help, this program would not have been possible. We take this opportunity to thank all the presenters, session chairs, and participants for their presence at the conference, many of whom travelled long distances to attend this conference and make their valuable contributions.

We strongly believe that the AFRICOMM conference provides a good platform for all researchers, students, developers, and practitioners to discuss all scientific and

technological aspects relevant to e-infrastructure and e-services for developing countries. We also expect that future AFRICOMM conferences will be as successful and stimulating as indicated by the contributions presented in this volume.

November 2018

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