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Message from the ALIAS Workshop Co-Chairs

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Message from the ALIAS'22 Workshop Co-Chairs
MDM 2022

It is our great pleasure to welcome you all to the 2nd International Workshop on ALgorithms for Indoor Architectures and Systems (ALIAS 2022), held online in conjunction with the 23rd IEEE International Conference on Mobile Data Management (MDM 2022), on June 6, 2022.

ALIAS aims to share new research paradigms in constituent technologies and enabling infrastructure of Indoor Information Systems (IIS), ranging from data-driven localization algorithms leveraging artificial neural networks, to data privacy handling schemes, and indoor data management operators. Driven by the fact that 90% of human activities are carried out in indoor spaces, the successful launching of popular IIS applications relies on stored indoor spatial models fusing sensor information, exploiting sensor prevalence in smartphone devices and wireless connectivity pervasiveness, in light of the big data era and accompanying technologies. Towards this direction, this workshop aims to discuss current trends and highlight future directions on both established and potentially transforming Algorithms for Indoor Architectures and Systems.

As such, the workshop serves as a forum to present latest research and engineering results while setting the scene for future innovations in algorithms for indoor architectures and systems. The proceedings of the workshop will serve as a valuable reference point towards this direction. The workshop will be organized in a manner that fosters interaction and exchange of ideas among the participants. Particularly, the workshop provides a full day of exciting presentations from 9 selected papers, i.e., 6 Regular and 3 Vision papers. These scientific works come from research organizations, including universities and research institutes in Italy, Spain, Finland, Cyprus, the Netherlands, Greece, South Korea, and the USA. In addition, the workshop program includes an invited talk by Boxian Dong, lead scientist and product owner of ArcGIS IPS (Indoor Positioning System) at Esri R&D Center at Vienna, Austria with title "Indoor positioning from a GIS industry's perspective: scale and resolution".

Several people contributed to the successful organization of the ALIAS'22 workshop. We sincerely thank the authors for providing the content of the program. The guidance of the Steering Committee (Demetris Zeinalipour, Nacim Ramdani, and Dong-Soo Han) was instrumental throughout the workshop preparation. We owe our genuine gratitude to the members of the Technical Program Committee for their excellent work in reviewing the papers and providing valuable feedback under a tight deadline. We thank Microsoft for granting us permission to use the Microsoft CMT service and the entire CMT support team, for their help in setting up and managing the online review process. We also thank the Horizon 2020 RESPECT project, the Anyplace Indoor Navigation Service, and the KIOS Center of Excellence at the University of Cyprus for their support. Finally, our special thanks go to ALIAS'22 publicity chair Marios Raspopoulos (University of Central Lancashire, Cyprus Campus), as well as our webmaster Soteris Constantinou (University of Cyprus) for their input and support in bringing forward this workshop.

We hope that you find the program interesting and the discussions inspiring!

Christos Laoudias, *University of Cyprus, Cyprus*
Manon Kok, *Delft University of Technology, Netherlands*
Sunwoo Kim, *Hanyang University, Republic of Korea*
ALIAS'22 Workshop Co-Chairs

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