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IEEE International Conference on Edge Computing and Communications (EDGE 2023)

Message from the General Chairs

Andrzej Goscinski (Deakin University, Australia)

Omer Rana (Cardiff University, United Kingdom)

We welcome you as General Co-Chairs to the 7th IEEE Int. Conference on Edge Computing and Communications (EDGE 2023), organised as part of the IEEE SERVICES Congress. Chicago is a wonderful city in which to host this event, a place which has played a strong role in the social, cultural, economic, and political history of the US. Situated not far from the location of this event are some of the leading Universities in the US (University of Chicago, University of Illinois), the US Dept. of Energy national lab: Argonne National Lab and the Chicago stock exchange. Interestingly, edge computing plays an important part in all these institutions, including in the urban infrastructure that involves the monitoring of air quality and traffic within Chicago. Edge computing enables integration of data from sensing infrastructure, including specialist mobile apps that are used by the citizens of Chicago daily. Understanding how this data can be processed and used to facilitate the next generation of applications is a key theme within this conference and the wider SERVICES congress.

Not far from this city, within the State of Illinois, are over 72,000 farms, covering 27M acres, comprising 75% of the total land area of this state (from: https://agr.illinois.gov/). Therefore, the importance of digital agriculture and Artificial Intelligence based electronic services to support rural communities can be most appreciated in this State. Edge computing also plays an important part in monitoring farms, operating in environments where network connectivity can be intermittent and where data can be used to inform decisions of farmers. Use of farm robots, drone-based crop surveillance and satellite image analysis all provide important areas for edge/cloud and sensor integration.

The EDGE 2023 conference programme has been led by two wonderful colleagues: Flavia Delicato (Universidad Federal Fluminense, Brazil) and Nirmit Desai (IBM Research). They have demonstrated significant commitment and dynamism, which we are grateful for, to put together an excellent programme. This year the conference has an associated iEDGE (Intelligent Edge) Symposium co-hosted with the conference. The Symposium includes invited contributions from key international colleagues. The contributions for iEDGE have also gone through a review process. We are grateful to

Feras Awaysheh (University of Tartu, Estonia) and Anna Kobusinska (Poznan University of Technology, Poland) for excellent work in coordinating and organising iEDGE 2023.

We would particularly like to thank Rong Chang (IBM Research) who led the overall IEEE SERVICES Congress. Rong is a brilliant colleague to work with – efficient, enthusiastic, energetic, and supportive. He has been a constant companion throughout our journey for EDGE 2023, connecting us with several very active colleagues who make the SERVICES Congress happen.

We are also grateful for the support of SERVICES Congress leadership: Congress Program Chairs Claudio Ardagna and Jing Fan and Congress General Chairs Geoffrey Fox and Zhi Jin. Sincere thanks to our Publicity Chairs Nitin Auluck, Luiz Bittencourt, Antonino Galletta, and Gautam Srivastava, who represented EDGE 2023 in several global locations: India, Brazil, Italy/Europe, and the US. Most importantly, we are grateful to the authors for choosing this venue to present their research and the reviewers for looking through these contributions and providing useful and valuable comments in a timely manner.