IEEE TCSC Outstanding PhD Dissertation Award

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More Information:

IEEE TCSC Outstanding PhD Dissertation Award

Dr Samodha Pallewatta's PhD Thesis has been selected for the 2023 Institute of Electrical and Electronics Engineers (IEEE) Technical Committee on Scalable Computing (TCSC) PhD Dissertation Award

Earlier this year in February, Samodha Pallewatta completed her PhD thesis, titled "Microservices-based Internet of Things Applications Placement in Fog Computing Environments." Her research was carried out in the Cloud Computing and Distributing Systems (CLOUDS) Laboratory in the School of Computing and Information Systems.

Dr Samodha Pallewatta.

arrange microservices in a large and complex computing environment, ensuring a more efficient and scalable method.

She also designed, developed, and practically deployed a state-of-the-art software system using novel cloud-native technologies (container orchestration, service mesh technology for microservices) for distributed placement of microservices within federated Cloud and Edge computing environments.

Samodha further contributed to the open-source simulation toolkit (iFogSim2), which is used by many universities around the world, including the State University of New Jersey University and Cardiff University. The thesis results have already started making a high impact on the area of the Internet of Things (IoT) and Edge/Fog computing and associated services industry.

The IEEE TCSC PhD Dissertation Award is an excellent recognition for Samodha's outstanding research in the CLOUDS Lab carried out under the supervision of Professor Rajkumar Buyya and Professor Vassilis Kostakos. She is now working as a Research Fellow at the University of Adelaide.

Congratulations Samodha!

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