Special Session on
Green Computing for Sustainable Development in the Era of 4.0 IR

We are in the era of Fourth Industrial Revolution that is a new chapter in human development enabled by extraordinary technology advances and making a fundamental change in the way we live, work and relate to one another. It is an opportunity to help everyone, including leaders, policy-makers and people from all income groups and nations, to harness converging technologies in order to create an inclusive, human-cantered future. To ensure the sustainability of the technological advancements in the era of 4.0 IR, we must be careful enough during different technological development to keep the damage of our planet as less as possible. Green computing also known as green information technology (Green IT) can help us in this regard. Green computing is an environmentally sustainable approach of dealing with information and communication technologies. It involves the research and study of developing, designing, engineering, implementing, and using computing technologies in reducing the environmental impact of technologies. It is the time for designers, developers, companies, vendors to develop green technologies to keep our planet healthy. Considering this fact as part of ICO 2022, we plan to organize the **special session on Green Computing for Sustainable Development in the Era of 4.0 IR.**

Topics of Interest:

The corresponding data science approaches are in, but not limited to, the following areas:
Green data science, Green e-commerce, Green e-government, Green database and data center technologies, Green data mining and information retrieval, Green cloud computing, Green machine learning, Green IoT, Green Procurement, Green networks and communications, Green Agriculture, Green education, , Smart grid, Green transportation systems, Environmental protection systems, Crisis management systems, Demand forecasting and recommendation systems, activity monitoring systems, Statistical inference, Intelligent foraging, Navigation and search strategies, Decision support systems, Brain informatics, Genetic algorithms, Swarm optimization etc.

Biography:

Professor Dr. Mohammad Shamsul Arefin is in lien from Chittagong University of Engineering and Technology (CUET), Bangladesh and currently affiliated with the Department of Computer Science and Engineering (CSE), Daffodil International University (DIU), Dhaka, Bangladesh. Earlier he was the head of CSE Department, CUET.

Prof. Arefin received his Doctor of Engineering Degree in Information Engineering from Hiroshima University, Japan with support of the scholarship of MEXT, Japan. As a part of his doctoral research, **Dr. Arefin** was with IBM Yamato Software Laboratory, Japan. His research includes data privacy and mining, big data management, IoT, Cloud Computing, Natural Language processing, Image Information Processing, Social Networks Analysis and Recommendation Systems and IT for agriculture, education and environment.

Prof. Arefin is the Editor in Chief of Computer Science and Engineering Research Journal (ISSN: 1990-4010) and was the Associate Editor of BCS journal of Computer and Information Technology (ISSN: 2664-4592) and a reviewer as well as TPC member of many international journals and conferences. **Dr. Arefin** has more than 120 referred publications in international journals, book series and conference proceedings. He delivered more than 30 keynote speeches/ invited talks. He also received a good number of research grants/funds from home and abroad.

Dr. Arefin is a senior member of IEEE, Member of ACM, Fellow of IEB and BCS. Prof. Arefin involves / earlier involved in many professional activities such as Chairman of Bangladesh Computer Society (BCS) Chittagong Branch; Vice-President (Academic) of BCS National Committee; Executive Committee Member of IEB Computer Engineering Division; Advisor, Bangladesh Robotic Foundation.

He was also a member of pre-feasibility study team of CUET IT Business Incubator, first campus based IT Business Incubator in Bangladesh.

Prof. Arefin is an Principle Editor of the **Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 95)** published by Springer and an editor of the books on **Applied Informatics for Industry 4.0**, **Applied Intelligence for Industry 4.0** and **Computer Vision and Image Analysis for Industry 4.0** to be published Tailor and Francis.

Prof. Arefin is the Vice-Chair (Technical) of IEEE CS BDC for the year 2022. He was the Vice-Chair (Activity) of IEEE CS BDC for the year 2021 and the Conference Co-Coordinator of IEEE CS BDC for two consecutive years, 2018 and 2019. He is acting as a TPC Chair of MIET 2022 and the TPC Chair of IEEE Summer Symposium 2022. He was the Organizing Chair of International Conference on Big Data, IoT and Machine Learning (BIM 2021) and National Workshop on Big Data and Machine Learning (BDML 2020). He served as the TPC Chair, International Conference on Electrical, Computer and Communication Engineering (ECCE 2017); Organizing Co-Chair, ECCE 2019, Technical Co-Chair, IEEE CS BDC Winter Symposium 2020 and Technical Secretary, IEEE CS BDC Winter Symposium 2021. **Dr. Arefin** helped different international conferences in the form of track chair, TPC member, reviewer and/or secession chair etc. He is a reviewer of many reputed journals including IEEE Access, Computing Informatics, ICT Express, Cognitive Computation etc.

Dr. Arefin visited Japan, Indonesia, Malaysia, Bhutan, Singapore, South Korea, Egypt, India, Saudi Arabia and China for different professional and social activities.