



IT-Enabled Sustainability and Development

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

ICT has potentials to reduce greenhouse gas (GHG) emissions by 20% by 2030 by helping companies, and consumers more intelligently use energy. ICT applications can help increase agricultural crop yields by 30%, saving over 300 trillion liters of water, and 25 billion barrels of oil a year, generating USD 11 trillion in economic benefits by 2030. In addition, ICT is part of a country's critical infrastructure. They also offer several environmentally friendly applications, from monitoring the environment and animals to applications of e-agriculture. ICT wireless sensors provide energy-saving applications, such as smart grids, homes, buildings, metering, and renewable energy integrated with sustainable smart city projects.

However, technological change and innovation need to be directed towards inclusive and sustainable outcomes, through a purposeful effort by governments, in collaboration with civil society, business, and academia.

Dr. Farid Shirazi





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