**Sustainable ICT Technologies**

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The miniaturization led advances in electronics during the last half century have revolutionized our lives through high-speed computing, communication and digital technologies - touching our life through almost all traditional sectors today (e.g., health, aerospace, manufacturing, and retail etc.). Yet, as revolutionary as micro/nanoelectronics technology has been, in its current form, it is not sustainable as it requires considerable resources for fabrication and leads to electronic waste at the end-of-life – for which currently there are not many attractive solutions. The current fabrication processes are inherently and unavoidably wasteful. For example, integrated circuits (IC) fabs rely almost entirely on subtractive manufacturing methods, leading to large material wastages and considerable adverse environmental impact. Clearly, there is a need for new resource efficient and environment friendly routes for electronics manufacturing and ICT systems. This talk will cover such aspects related to today’s electronics and discuss few alternatives, including printed electronics, for the future sustainable electronic hardware. The talk will cover the magnitude of e-waste, the ICT Footprint, Sustainable Technologies, and circular electronics.