

## Internet of Things in Everyday Life

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Information and communication technologies (ICT) have been changing the way we live. The changes are very significant in recent times. Social media has become a part of our lives and goes way beyond being a fun accessory. It plays a key role in unraveling people's power and creating collective opinions. The differences among computers, phones, cameras, televisions, audio players and even the bank machine are diminishing. A single device, instead, can perform all these tasks and much more. Our kids use more 'i' devices than toys. Photonic and radio technologies jointly enable broadband wireless connectivity everywhere at all times. Modern wireless technology provides numerous seamless services, varying from receiving images, videos and tweets from outer space missions to providing communication for underground miners and tracking them in the mining industries. Internet of Things (IoT) is expanding rapidly. The world is increasingly populated with sensors and connected devices that automatically communicate, make decisions and perform complex tasks. The power grid is getting smarter, self-healing and more resilient. Autonomous, electric cars will soon be a common item, receiving and redelivering electricity to the grid. Our homes will soon generate their own energy and be more interactive.

However, there are other issues with the ICT as well. Too much reliance on ICT and automation could cause trouble when things malfunction. Management of complex systems and ensuring reliability are generally demanding tasks. Privacy and security will always be an issue in a highly automated *i*-society. Situations could be problematic when facing natural and manmade disasters. On another aspect, the power consumption of ICT equipment is rapidly increasing. Greener technologies are needed to provide energy sustainable ICT infrastructure.