

## Special Issue on The Future of Iot on Patient-Centred Healthcare and Smart Living

### Call for Papers

The Internet of Things (IoT), is a wide field but is yet to achieve its ambition and capabilities. Referred to as the growth of sensors and things that connect to the Internet via RFID, Bluetooth, ZigBee and satellite, IoT is opening new disruptive business opportunities for services that add value to the data collected within healthcare environments. This data has revolutionized medicine and is advancing fast to personalized medicine, predicting medical conditions and finding cure for complex diseases. As more innovations in medical technology are being made, the standard of healthcare is also raised to match the available technologies which allow smart living and an improved patients' care. The demographic developments of the aging societies will lead to increasing demand for support of an increasing number of people with chronic conditions. The pressures to cut down hospital costs, staff shortages and deficient intensive care and hospital bed volumes has enabled huge market for new systems which improve productivity, cut costs, and support the shift of healthcare from hospital to the home. Also, it is the source to the development of personalisation policy in Europe which aim to empower chronic diseases patients with the means (mainly technologies) that will allow them to leave an independent life. IoT is considered to be the most qualifying technology which can achieve that. Basically, IoT is considered to be the future personal assistant and helper in all activities that happen at a regular basis.

Machine-to-machine (M2M) is an interesting branch of IoT which advocates the 'device shall speak unto device' model, the M2M model uses wired or wireless connectivity to exchange information and communications between Web-connected devices without the need for human intervention. M2M's value to healthcare is its ability to make use of mainstream ICT, its costs can be diffused and aligned with those IT lifecycles common to PC and Internet-connected medical devices, rather than very expensive specialist hardware and software. This benefits both physicians and healthcare finance offices.

This special issue aim to explore e.g. the effects of climate change, growing and consuming GM food, using renewable energy, effects on the business, changes to environment and ecosystems and environmental disasters.

Finally, this special issue is keen to open avenues for further research, as well as to capture suggestive or solutions to IoT complex challenges such as security, and the handling of Exbibytes (EiB) and Zebibytes(ZiB) of data which will be generated as a result of employing IoT.

Potential topics include, but are not limited to:

- The future of the internet of things in healthcare applications
- Ambient intelligence in healthcare
- Social sciences, internet, for IoT healthcare
- Business, ebusiness to support IoT healthcare
- Security for IoT healthcare
- Networking and addressing IoT healthcare devices
- IoT supporting technologies: e.g. data mining, biometrics, sophisticated database systems
- RFID

- WSN
- Nanotechnology
- Renewable energy to support IoT healthcare
- Controlling Environmental disasters which could affect human health using IoT.
- Preventing health problems which result from natural disasters using IoT
- IoT to support war veterans who have developed health problems.
- Smart hospital, Smart labs, smart healthcare professionals
- Policies
- Standardization
- Ethics
- M2M
- Cloud healthcare
- Drug development and utilization

Authors should read over the journal's [Author's Guidelines](#) carefully before submission, Prospective authors should submit an electronic copy of their complete manuscript through the journal [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue-The Future of Iot on Patient-Centred Healthcare and Smart Living**” should be chosen during your submission.

According to the following timetable:

Manuscript Due	April 10th, 2013
Publication Date	June 2013

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