

**Call for Papers**

**Special Issue**

**Internet of Health Things (IoHT)-based Connected Living for Sustainable Smart Cities**

Connected Living is a philosophy in which ICT-enabled technologies are shared with users in all facets lives, including residences, work environments, and the community. Connected living's industry-leading technological innovations provide senior living tenants, staff, and families with increased peace of mind. To sustain connected living innovations, they must pass the three pillars of sustainability: financial sustainability, social sustainability, and environmental sustainability.

Smart healthcare has been a field of incredible change and growth in the new age of smart houses, smart communities, and all things digital. It has become among the most important ingredients of connected living. A total of 50 billion health-related things are projected to be wired by 2021, and 5G would increase the Internet of Health Things (IoHT) standard of operation. The IoHT includes a network linked with many types of medical sensors and devices such as image digitizer, vital sign sensing devices such as ECG, blood pressure, and oxygen monitor devices, display, modems, storage devices, and communication networks. 5G promises a drastic extension of the spectrum, expected to be 100 times quicker than 4G. In brief, the convergence of high-speed Broadband, reduced latency, and larger capacity would boost modern healthcare. Given these incentives, it cannot be an afterthought for the data protection problems that arise from 5G.

Sustainable health and social care is an important element of a sustainable society. In a sustainable society, health and social care programs need to be developed and supported in a manner that will satisfy the demands both of today's population and future generations. As the Digital Age firms its hold on all facets of our society, massive quantities of data are created daily from sensors, personnel records, social networks, the Internet of Things, businesses, and the Internet in numerous scales and formats. This certainly poses a major challenge to the efficiency of our built systems and infrastructures. As these structures age, and become weak, and potentially unstable after a running time, improving the efficiency and sustainability of devices, cloud, big data networks, and software has become increasingly important.

The technical challenges of the IoHTs in a sustainable smart city include (a) reducing cost for a balanced service to achieve the financial sustainability, (b) gaining acceptability of the patients and clients to obtain the social sustainability, (c) dipping the emission of toxic gases to attain the environmental sustainability. These challenges can be subdivided into (i) hacking and unauthorized use of IoHT, (ii) lack of standards and communication protocols, (iii) errors in patient-data handling, (iv) data integration, (v) managing device diversity and interoperability, and (vi) scalability, data volume and performance. The sustainability can be obtained by addressing the issues of (vii) physician compliance, (viii) data overload, (ix) privacy and security policy. These challenges should be addressed to provide a real-time, seamless, robust, and acceptable healthcare facility for connected living in smart cities and sustainable societies.

This special issue seeks to discover recent developments and promulgate state-of-the-art techniques on IoHT-based connected living for smart cities complying with financial, social, and environmental sustainability. Manuscripts will be judged solely based on the unique contribution to the field of IoHT-based connected living for smart and sustainable cities. They should be original, unpublished, and should not be already accepted or are under review in any journals. Papers will be peer-reviewed by at least three independent reviewers and will be chosen based on contributions including their originality, scientific quality as well as their suitability for this special issue. The journal guest editors will make the final decision on all accepted papers. There will be a round of revisions for articles accepted.

### **Topics**

The list of topics in this special issue includes, but is not limited to:

- IoHT-based chronic disease management for sustainable societies
- IoHT-based remote assisted living complying with financial sustainability
- IoHT-based wellness and preventive care (Lifestyle Assessment) complying with social sustainability
- Prevention against data theft, insecure data transfers, and irregular network connections
- Beyond 5G in smart healthcare for sustainable cities
- Management of IoHT devices connectivity and interoperability for sustainable societies
- IoHT-based systems for COVID-19 like pandemic screening
- IoHT-based mass surveillance in smart cities to prevent the spread of pandemic
- Energy efficiency and sustainability of IoHT
- Design of environment friendly and sustainable IoHTs
- Emergency health management in sustainable smart city environments
- Socio-economic issues of smart health in sustainable societies

### **Timeline**

Deadline for Submissions: January 15, 2021

Decisions Sent to Authors: April 15, 2021

Publication: July 15, 2021

### **Guide for Authors**

Instructions for article submission follow the guide in this link:

<http://shorturl.at/cdKZ5>

or

[Guid for Authors](#)

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