



INTERNET OF THINGS

Engineering Cyber Physical Human Systems

AUTHOR INFORMATION PACK

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DESCRIPTION

Internet of Things; Engineering Cyber Physical Human Systems is a comprehensive journal encouraging cross collaboration between researchers, engineers and practitioners in the field of IoT & Cyber Physical Human Systems. The journal offers a unique platform to exchange scientific information on the entire breadth of technology, science, and societal applications of the IoT.

The journal will place a high priority on timely publication, and provide a home for high quality: Full Research papers Survey Papers Actual Open [Software](#) and [Data](#) Tutorials and best practices Case studies Whitepapers

Furthermore, IOT is interested in publishing topical Special Issues on any aspect of IOT. Please contact the Editor in Chief with a [proposal](#) for a Special Issue and a [questionnaire](#) for a Special Issue.

The scope of IoT comprises four main blocks to cover the entire spectrum of the field. From Research to Technology, from Applications to their Consequences for life and society.

Theory and fundamental research

Research that addresses the core underlying scientific principles dealing with the analysis and algorithmics of "IoT ecosystem" as a multicomponent system with complex and dynamic dependences at large-scale, such as: New formal methods research to create abstractions, formalisms and semantics at IoT layer. Research on the unique IoT challenges in security, reliability and privacy. High-level policy languages for specifying permissible communication patterns.

Software development, technology and engineering

Key enabling IoT technologies related to sensors, actuators and machine intelligence. Development and deployment IoT tools and platforms to ensure security, reliability and efficiency, such as: Device software development, such as minimal operating systems. Secure communication of IoT with other software layers from edge computing to the Cloud. IoT software designs, including addressing security at design phase. Best practices for IoT (software) development, test beds and quality assurance. Sensors and actuators

Applications of IoT

New Applications of connected products and/or connected business processes to create new business value and business models. We are looking for contributions, and lessons learned, from researchers applying IoT in various domains including but not limited to: Energy (smart grids, meters & appliances,

renewable energy). Transportation (infrastructure, logistics, road and rail, shipping, aerospace, autonomous vehicles). Manufacturing & industry (smart design & smart manufacturing, advanced robotics). Business, marketing & finance (e-commerce, finance, advertising & media). Urban life (smart/cyber-cities, home automation, smart buildings). Behavioural Sciences, Sustainable and Well-being Society. eLearning, Technology-Enhanced Learning, CSCL, Virtual Campuses, Education and Technology. Ecology (precision agriculture, dairy, fishing, wildlife management, water, climate & ecology). Medicine & healthcare (delivery & care systems, decision support, wearables). Nano IoT (personalized precision medicine, Biological IoT, Chemical IoT).

Societal aspects of IoT

Keeping humans in the loop is vital. Research in cyber-human systems that reflect human understanding and interaction with the physical world and (semi) autonomous systems. Societal, political and social impacts of the IoT. Ethics & (proposed) laws & regulations. Human Technology Interaction - at scale. Emerging standards and technology in human life. And of course hot issues, such as auditing, liability and social vulnerabilities.

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[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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[dataset] [6] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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