## SS1: Engineering of IoT, Heuristics and Applications

## Special Session

## **Abstract**

Many businesses and engineering organisations are beginning to realise a huge potential of various applications based on the Internet of Things (IoT) and Heuristics (AI). There are quite a few technology and business leaders who agree that IoT technology is likely to bring about a new industrial revolution. The IoT systems can collect and transfer massive quantities of rapidly moving data from sensors, as well as, deliver controls to sensors, actuators and various computer devices around the world. The goal of IoT systems is to realise entirely new ways of how users recognize and engage with the world of objects / "things" and humans. However, these systems, often generate large numbers of data that need to be stored, processed and analysed to support various human activities. The process of delivering, computing and handling massive amounts of various data is not trivial, and requiring smart ways of processing, organising, storing, and analysing, mapping and viewing data. These smart ways often involve intelligent computing models and computing methods called Heuristics.

However, many of the Internet of Things and Heuristic solutions frequently fail to deliver what is promised. In part, this is due to still limited number of effective methodologies, case studies, models, protocols, tools, technologies, hardware and software development environments, as well as, solutions which the IoT and Heuristic methods require for successful an implementation, deployment and secure operation. There is a shortage of system designers and developers who understand the IoT and Heuristic technologies and who are able to face serious challenges these novel technologies represent.

The special session on Internet of Things and Heuristics applications aims to provide a platform for computer scientists, engineers, AI specialists, business leaders and academics to exchange their ideas, offer their insights and share experiences on how these new technologies can be harnessed, and how various challenges can be successfully addressed.

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