



Context-Aware Computing and Smart Recommender Systems in the IoT

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Message from the Guest Editors

Context-aware computing describes the development of technologies and applications that can detect data from the surrounding environment and react accordingly with specific actions, reducing and simplifying the human-machine interaction process.

Context changes result in a transformation of the user experience. For this reason, context-aware computing has played a key role in addressing this challenge in previous paradigms, such as mobile and pervasive computing, and is playing a crucial role in the Internet of Things (IoT) paradigm. Indeed, thanks to new technologies, a user can access large amounts of content and services with different purposes and requirements in each *context*. In this scenario, the need arises for recommendation systems that consider users' personal preferences and all the contextual aspects to recommend the right services and contents at a specific time.

Keywords

- context-aware computing
- recommender systems
- Internet of Things
- smart environments
- big data
- ubiquitous computing
- wearable computing
- activity recognition





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