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Research on Load Distribution Techniques at the Software Level in Mobile Embedded Systems

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Message from the Guest Editors

In recent years, mobile embedded devices such as smartphones and tablets have grown in popularity among end-users for various human-computer interactions. Furthermore, a lot of IoT devices gather and process data in connection with cloud servers for smart factories, smart cities, and so on. The problem is that such devices still have insufficient computing power in comparison to PCs and servers. Thus, efficient load distribution techniques are urgently required. For example, the load of accelerating deep learning inference can be distributed among multiple mobile devices and a cloud server. To solve this problem, many studies have been conducted at the component and architecture level of CPU, GPU, memory, and SSD, and at the software level of operating system, middleware, compiler, library, and application.

In this Special Issue, original research articles as well as review articles that deal with system/application software and design architectures for new embedded technologies are invited. Potential topics include but are not limited to:

- Advanced load distribution embedded technologies;
- Advanced high-performance/low-power embedded technologies;
- Advanced hardware/software/architecture for future embedded technologies;
- Advanced mobile computing systems and technologies;
- Deep learning, AR/VR, image processing acceleration techniques for embedded systems;
- Novel power modeling for mobile embedded systems.

