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Current Trends on IoT Computing and Protocol Architectures: Scenarios and Communications Issues

During the past few years, we have been witnessing an exponential growth on the number of wireless devices connected to the Internet. Ranging from wearable to smart cars, telecommunications service providers are being called to offer more and better wireless communications services. To properly respond to the needs of a wide variety of IoT-based applications, researchers and developers are currently exploring the implementation of novel computing paradigms and protocol architectures. In this work, we reviewed the latest developments on computing and protocol architectures. We illustrate, through two use cases, the issues to be addressed on the implementation and configuration of IoT-based solutions and the benefits in terms of quality of services and utilization ratios of the underlying communications resources.

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