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Event-Driven Sensor Processor for Low-Energy IoT Embedded System

By Park, Daejin

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Practical Guides for MCU-based IoT System Design and Implementation | A specially-designed, event-driven sensor processor architecture for the rare-event sensing applications is introduced by allowing the accuracy error, which is caused by the characteristics of the sensing applications. The conventional sensor processor performs the discrete-time based data sampling, data-quantization and utilizes the advanced time- quantization approach to reduce the energy consumption. Especially, for the rare-event applications, in which the event-to-event distance is very long, can be represented with the pre-defined event signal for a certain amount of signal range by the event type data of the signal shape and featured elapsed time range. The received analog signals for the specified time region are converted into the series of the atomic events by the signal-to-event converter (S2E) before the sensor data processing is performed. The signal-to-event conversion approach consumes additional power consumption, but the entire signal sampling rate can be reduced, which is more effective way to reduce the energy consumption. This book gives all details in RTL-level hardware design and MCU firmware implementation for event-driven sensor signal processing. | Format: Paperback | Language/Sprache: english | 172 pp.



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Reviews

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-- **Dr. Anya McKenzie**

I actually started off looking over this publication. Indeed, it really is playful, nevertheless an amazing and interesting literature. It has been printed in an exceedingly basic way and is particularly just right after I finished reading this ebook by which it actually altered me, affected the way I believe.

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