



Integrated Smart Sensors: Design and Calibration (The Springer International Series in Engineering and Computer Science)

Gert van der Horn, Johan Huijsing

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1 1. 1 Introduction The (signal processing and storage) capacity of the human brain enables us to become powerful autonomous beings, but only if our brains operate in conjunction with (at least some of) our senses and muscles. Using these organs, we can interact with our environment, learn to adapt, and improve important aspects of our life. Similarly, the signal processing capabilities of modern electronics (computers) could be combined with electronic sensors and actuators to enable interaction with, and adaptation to, the (non-electrical) environment. This will lead to smarter and more powerful automated tools and machines. To facilitate and stimulate such a development, easy-to-use low-cost sensors are needed. The combination of electronic interface functions and a sensor in an integrated smart sensor, that provides a standard, digital, and bus-compatible output, would simplify the connection of sensors to standard electronic signal processors (microcontrollers, computers, etc.). Currently, the calibration procedure, required for standardization of the sensor output signal level, contributes largely to the production costs of accurate sensors. To enable automation of the calibration procedure, and hence reduce the sensor fabrication costs, a digital calibration junction should be included in the smart sensor. INTEGRATED SMART SENSORS: Design and Calibration Introduction 1. 2 Sensors and actuators In industry many processes are electronically controlled. As depicted in Fig.

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