Principles of Embedded Networked Systems Design

Gregory J. Pottie, William J. Kaiser

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Embedded network systems (ENS) provide a set of technologies that can link the physical world to large-scale networks in applications, such as monitoring of borders, infrastructure, health, the environment, automated production, supply chains, homes, and places of business. This book details the fundamentals for this interdisciplinary and fast-moving field. The book begins with mathematical foundations and the relevant background topics in signal propagation, sensors, detection and estimation theory, and communications. Key component technologies in ENS are discussed: synchronization and position localization, energy and data management, actuation, and node architecture. Ethical, legal, and social implications are addressed. The final chapter summarizes some of the lessons learned in producing multiple ENS generations. A focus on fundamental principles together with extensive examples and problem sets make this text ideal for use in graduate courses on electrical engineering and computer science. It will also appeal to engineers involved in the design of ENS.

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