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Titolo	Distributed Embedded Smart Cameras : Architectures, Design and Applications // edited by Christophe Bobda, Senem Velipasalar
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Descrizione fisica	1 online resource (280 p.)
Disciplina	621.38928
Soggetti	Signal processing Image processing Speech processing systems Electrical engineering Computers Signal, Image and Speech Processing Communications Engineering, Networks Information Systems and Communication Service
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Platforms and Architectures for Distributed Smart Cameras -- A Survey of Systems-on-Chip Solutions for Smart Cameras -- Reconfigurable Architectures for Distributed Smart Cameras -- Design and Verification Environment for High-Performance Video-Based Embedded Systems -- Distributed Mobile Computer Vision: advances, challenges and applications -- Autonomous Tracking of Vehicle Taillights and Alert Signal Detection by Embedded Smart Cameras -- Autonomous Tracking of Vehicle Taillights and Alert Signal Detection by Embedded Smart Cameras -- Tracking by Detection Algorithms Using Multiple Cameras -- Consistent Human Tracking over Self-Organized and Scalable Multiple-Camera Networks -- Soft-biometrics and Reference Set Integrated Model for Tracking Across Cameras -- A parallel approach for statistical texture parameter calculation.
Sommario/riassunto	This publication addresses distributed embedded smart cameras – cameras that perform onboard analysis and collaborate with other

cameras. This book provides the material required to better understand the architectural design challenges of embedded smart camera systems, the hardware/software ecosystem, the design approach for, and applications of distributed smart cameras together with the state-of-the-art algorithms. The authors concentrate on the architecture, hardware/software design, realization of smart camera networks from applications to architectures, in particular in the embedded and mobile domains. • Examines energy issues related to wireless communication such as decreasing energy consumption to increase battery-life • Discusses processing large volumes of video data on an embedded environment in real-time • Covers design of realistic applications of distributed and embedded smart cameras.
