Advances in Embedded Computer Vision (Advances in Computer Vision and Pattern Recognition)

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This illuminating collection offers a fresh look at the very latest advances in the field of embedded computer vision. Emerging areas covered by this comprehensive text/reference include the embedded realization of 3D vision technologies for a variety of applications, such as stereo cameras on mobile devices. Recent trends towards the development of small unmanned aerial vehicles (UAVs) with embedded image and video processing algorithms are also examined. Topics and features: discusses in detail three major success stories – the development of the optical mouse, vision for consumer robotics, and vision for automotive safety; reviews state-of-the-art research on embedded 3D vision, UAVs, automotive vision, mobile vision apps, and augmented reality; examines the potential of embedded computer vision in such cutting-edge areas as the Internet of Things, the mining of large data streams, and in computational sensing; describes historical successes, current implementations, and future challenges.

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Editorial Review

From the Back Cover

This illuminating collection offers a fresh look at the very latest advances in the field of embedded computer vision.

Emerging areas covered by this comprehensive text/reference include the embedded realization of 3D vision technologies for a variety of applications, such as stereo cameras on mobile devices. Recent trends towards the development of small unmanned aerial vehicles (UAVs) with embedded image and video processing algorithms are also examined. The authoritative insights range from historical perspectives to future developments, reviewing embedded implementation, tools, technologies, systems, algorithms, and markets.

Topics and features:

- Presents a series of self-contained articles from an international selection of leading experts in the field
- Discusses in detail three major success stories – the development of the optical mouse, vision for consumer robotics, and vision for automotive safety
- Reviews state-of-the-art research on embedded 3D vision, UAVs, automotive vision, mobile vision apps, and augmented reality
- Examines the potential of embedded computer vision in such cutting-edge areas as the Internet of Things, the mining of large data streams, and in computational sensing
- Describes historical successes, current implementations, and future challenges

This timely volume is essential reading for researchers from academia and industry, practitioners, and innovation managers interested in embedded computer vision. Students of computer vision will also find this to be an inspiring source of information on the field.

Dr. Branislav Kisa?anin is the CTO of Embedded Computer Vision at Interphase Corp., Plano, TX, USA. **Dr. Margrit Gelautz** is an associate professor at Vienna University of Technology, Austria, where she directs the research group on Image and Video Analysis & Synthesis.

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