

Innovative Research in Attention Modeling and Computer Vision Applications

Part of the Advances in Computational Intelligence & Robotics (ACIR) Book Series

Rajarshi Pal
(Institute for Development and Research in Banking Technology, India)

Description:

Robotics and autonomous systems can aid disabled individuals in daily living or make a workplace more productive, but these tools are only as effective as the technology behind them. Robotic systems must be able to accurately identify and act upon elements in their environment to be effective in performing their duties.

Innovative Research in Attention Modeling and Computer Vision Applications explores the latest research in image processing and pattern recognition for use in robotic real-time cryptography and surveillance applications.

This premier reference work includes chapters on topics ranging from biometric and facial recognition technologies, to digital image and video watermarking, among many others.

Readers:

This book provides researchers, students, academicians, software designers, and application developers with next-generation insight into the use of computer vision technologies in a variety of industries and endeavors.

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Topics Covered:

- Attentive Robot Vision
- Biologically-Inspired Computing
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- Image Retargeting
- Object Detection and Tracking
- Spatial Reasoning
- Visual Attention Modeling
- Visual Cryptography

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