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The research book is focused on the recent advances in computer vision methodologies and innovations in practice. The Contributions include:

- Human Action Recognition: Contour-Based and Silhouette-based Approaches.
- The Application of Machine Learning Techniques to Real Time Audience Analysis System.
- Panorama Construction from Multi-view Cameras in Outdoor Scenes.
- A New Real-Time Method of Contextual Image Description and Its Application in Robot Navigation and Intelligent Control.
- Perception of Audio Visual Information for Mobile Robot Motion Control Systems.
- Adaptive Surveillance Algorithms Based on the Situation Analysis.
- Enhanced, Synthetic and Combined Vision Technologies for Civil Aviation.
- Navigation of Autonomous Underwater Vehicles Using Acoustic and Visual Data Processing.
- Efficient Denoising Algorithms for Intelligent Recognition Systems.
- Image Segmentation Based on Two-dimensional Markov Chains.

The book is directed to the PhD students, professors, researchers and software developers working in the areas of digital video processing and computer vision

technologies.

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