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"An Investigation of fSVD and Ridgelet Transform for Illumination and Expression Invariant Face Recognition"
 

- 1 Introduction
- 2 Proposed Methodology
  - 2.1 flustered SVD (fSVD)
  - 2.2 Ridgelet Transform
  - 2.3 Classification
- 3 Experimental Results and Performance Analysis
- 4 Conclusion
- References

Coslets: A Novel Approach to Explore Object Taxonomy in Compressed DCT Domain for Large Image Datasets
 

- 1 Introduction
- 2 Proposed Method
  - 2.1 Segmentation in Complex Hybrid Color Space
  - 2.2 Feature Extraction and Classification
  - 3 Experimental Results and Performance Analysis
    - 3.1 Caltech - 101 Dataset
    - 3.2 Caltech - 256 Dataset
  - 4 Discussion and Conclusion
  - References

AI Based Automated Identification and Estimation of Noise in Digital Images
 

- 1 Introduction
- 2 Probabilistic Neural Network (PNN)[2]
  - 3 Methodology
    - 3.1 Noise Identification Stage
    - 3.2 Noise Level Estimation Stage
  - 4 Implementation and Results
  - 5 Conclusion
  - References

SVM/D: Support Vector Machine-Singular Value Decomposition Based Face Recognition
 

- 1 Introduction
- 2 Methodology
  - 2.1 Support Vector Machine (SVM)
  - 2.2 Singular Value Decomposition (SVD)
  - 3 Results and Discussion
  - 4 Conclusion

Appendix I - Solving for Dual Optimization Problem
 

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Appendix II - Mercer-Hilbert-Schmidt Theorem
 

- References

A New Single Image Dehazing Approach Using Modified Dark Channel Prior
 

- 1 Introduction
- 2 Related Work
  - 2.1 Optical Model of Hazy Images
  - 2.2 Dark Channel Prior
  - 2.3 Transmission Estimation
  - 2.4 Restoration of Input Image
- 3 Proposed Methodology
  - 3.1 Convert RGB to LAB Color Space
  - 3.2 Estimation of R Refined Transmission Map Using Dark Channel Prior

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Sommario/riassunto

This book contains a selection of refereed and revised papers of Intelligent Informatics Track originally presented at the third International Symposium on Intelligent Informatics (ISI-2014), September 24-27, 2014, Delhi, India. The papers selected for this Track cover several intelligent informatics and related topics including signal processing, pattern recognition, image processing data mining and their applications.

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