Abstract

This paper presents a new technique for multimodal image fusion. Unlike most previous works on image fusion, this paper explores the use of fuzzy lattice theory in the fusion process. Our proposed image fusion algorithm involving infrared and visual images based on fuzzy lattice theory show better experimental result than the related research work. Finally the paper discusses several key topics for future research, including the applications of this technique to computer vision and other related fields.

References

A Fuzzy Lattice Approach to Automated Multimodal Image Fusion


- Yaonan Wang, Multisensor Image Fusion: Concept, Method and Applications, Faculty of Electrical and Information Engineering, Hunan University, Changsha, 410082, China.
- FUZZY RLOGORITHMS With Applications to Image Processing and Pattern Recognition, Zheru Chi, Hong Yan, Tuan Pham, Advances in Fuzzy Systems Applications and Theory Vol. 10, ISBN 9810226977

**Index Terms**

Computer Science  
Signal Processing
Keywords
Multimodal Fusion  Infrared Image  Normal Visual Image  Fuzzy  Lattice  Image Registration  Lattice