Dr. Yifeng Niu

Background

- Since 01/2012: Visiting Researcher, Department of Computer Science, University of Tübingen, Germany
- Since 06/2010: Postdoctoral Researcher, College of Electronic Science and Engineering, NUDT, China
- Since 01/2008: Lecturer, College of Mechatronics and Automation, NUDT, China
- 09/2001-12/2007: Postgraduate, Institute of Automation, College of Mechatronics and Automation, NUDT, China, Ph.D (2007)
- 09/1997-06/2001: Undergraduate, Department of Automatic Control, National University of Defense Technology (NUDT), China, B.Sc (2001)

Research Interests

- Autonomous Flying Robots
- Computer Vision
- Sensor Fusion
- Intelligent Computation

Current Projects

• The Special Financial Grant from China Postdoctoral Science Foundation: A new approach of infrared and visible information real-time fusion and target recognition for UAV cooperative perception

Publications

- Yifeng Niu, Shengtao Xu, Lizhen Wu, and Weidong Hu. Airborne Infrared and Visible Image Fusion for Target Perception Based on Target Region Segmentation and Discrete Wavelet Transform, Mathematical Problems in Engineering, vol. 2012, Article ID 275138, 10 pages, 2012. doi:10.1155/2012/275138.
- Lizhen Wu, Yifeng Niu, and Lincheng Shen. Contextual Hierarchical Part-Driven Conditional Random Field Model for Object Category Detection, Mathematical Problems in Engineering, vol. 2012, Article ID 671397, 13 pages, 2012. doi:10.1155/2012/671397.
- Qingjie Zhang, Yifeng Niu, Lin Wang, Lincheng Shen and Huayong Zhu. Average Consensus Seeking of High-order Continuous-time Multi-agent Systems with Multiple Time-varying Communication Delays, International Journal of Control Automation and Systems, v 9, n 6, p 1209-1218, 2011.
- Lizhen Wu, Yifeng Niu and Lincheng Shen. Robust feature point matching based on local feature groups(LFGs) and relative spatial configuration, Journal of Computational Information Systems, v 7, n 9, p 3235-3244, 2011.
- Yifeng Niu, Lincheng Shen, Xiaohua Huo, and Guangxia Liang. Multi-Objective Wavelet-Based Pixel-Level Image Fusion Using Multi-Objective Constriction Particle Swarm Optimization, In: Multi-Objective Swarm Intelligent Systems, Theory and Experiences, Springer-Verlag Berlin Heidelberg, p 151-178, 2010.
- Yifeng Niu, Lincheng Shen, Lizhen Wu and Yanlong Bu. Optimizing the number of decomposition levels for wavelet-based multifocus image fusion, Proceedings of the 8th World Congress on Intelligent Control and Automation (WCICA2010), Jinan, China, p 6351-6356, 2010.
- Yifeng Niu and Lincheng Shen. Multiobjective constriction particle swarm optimization and its performance evaluation, Lecture Notes in Computer Science (LNAI), v 4682, p 1131-1140, 2007.
- Yifeng Niu and Lincheng Shen. An adaptive multi-objective particle swarm optimization for

- color image fusion, Lecture Notes in Computer Science (LNCS), v 4247, p 473-480, 2006.
- Yifeng Niu and Lincheng Shen, Multi-resolution image fusion using AMOPSO-II, Lecture Notes in Control and Information Sciences (LNCIS), v 345, p 343-352, 2006.
- Yifeng Niu, Lincheng Shen and Yanlong Bu. Multi-objective blind image fusion, Lecture Notes in Computer Science (LNAI), v 4062, p 713-720, 2006.

Address, Phone, Fax, Email

Eberhard-Karls-Universität Tübingen Wilhelm-Schickard-Institut für Informatik Lehrstuhl Kognitive Systeme Sand 1 D - 72076 Tübingen Germany