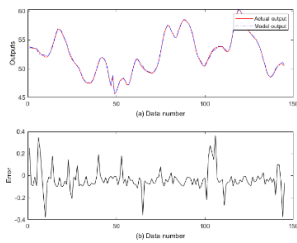


Advanced Intelligent Control and Machine Learning Laboratory

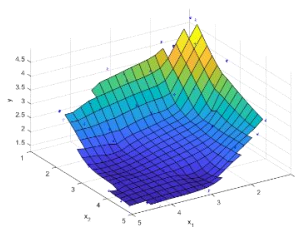
Main Research

- ◆ Stability analysis of systems
- ◆ Intelligent control and its applications
- ◆ Pattern recognition
- ◆ Application of machine learning algorithms
- ◆ Implementation and application of robots
- ◆ Implementation and control of autonomous quadcopter

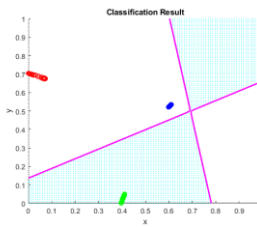
- ICASI 2017 First Prize Paper Award
- ICASI 2016、2018 Best Paper Award
- 2015 Dr. Shechtman Youth Research Investigators Award
- 2014 Youth Automatic Control Engineering Award
- 2014 Taiwan Intelligent Robot Competition The Second Place
- RoboCup Japan Open 2013 Tokyo The Second Place
- 2013 Taiwan Intelligent Robot Competition The Championship
- ARIS2013 First Prize of the Best Paper Award
- The 2012 International Innovation and Invention Poster Competition Golden Award



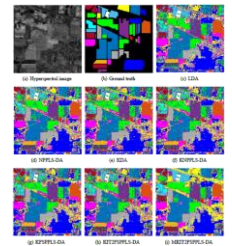
Modeling and prediction analysis



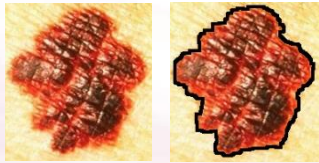
System identification



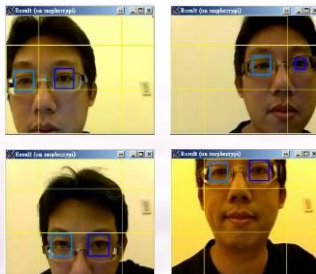
Feature extraction and classification



Dimensionality reduction and classification



Clustering analysis for image recognition



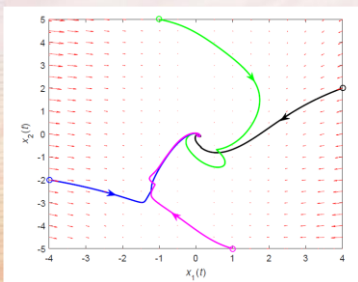
Tracking control of eye recognition



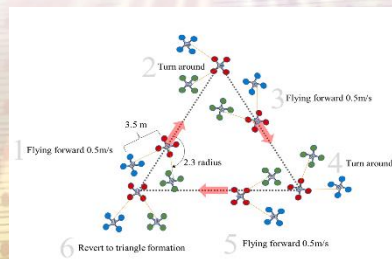
Face detection for wheelchair control



Autonomous wheelchair tracking control



Stability analysis



The formation navigation strategy of quadrotors



Autonomous quadrotor formation control