Liu Ping

Computer Applications Engineering Master in Huazhong University of Science and Technology

Image Processing and Pattern Recognition

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EDUCATION:

- ◆ **2006/04----2008/06   Huazhong University of Science and Technology**

  M.S. in Pattern Recognition and Artificial Intelligence
  - ✧ Main Courses: Digital Image Processing, Pattern Recognition, etc
- ◆ **2001/09---2005.06   Wuhan university of technology**

  B.S. in Communication Engineering

  Main Courses: The theory of Communication, Signal and System, Digital signal processing

BASIC KILLS:

- ◆ Proficient in C/C++, skillfully use Visual C++ for software development
- ◆ Familiar with the most frequently used algorithm of images processing
- ◆ Familiar with the Matlab and the tool box
- ◆ Familiar with Linux, have knowledge in development in C under the Linux platform

PROJECT EXPERICENCE:

- ◆ **Research on feature extraction and auto-registration from SAR images**

  Description: Do research and find solution on feature extraction and auto-registration from SAR images which could be used to locate the position of flying object with high speed. The task including: set up the model of , design and develop the software system (feature extraction, the algorithm of locating, etc); Design and modify the algorithm to meet the need of real time.

  Personal Responsibility:
  - (1) Being the design the system and write the code.
  - (2) Used wavelet and LTS_Hausdorff Distance to speed the algorithm, to meet the need of real time.
  - (3) With the corporation of team members, make modification to the algorithm; write the technical paper after the work done.

- ◆ **The Image Segmentation based on LevelSet Method**

  Description: We use the C_V model to extract the region we need to make the further process. As The low speed of the original module can not meet the need of the real time, we make Some modification, by introduce the new energy function into the model, to speed up the algorithm and don't low the accuracy.

  Personal Responsibility:
  - (1) Design the system and write the code
  - (2) Make the modification to the original algorithm to meet the need Of real time.
  - (3) Write the technical paper with the corporation of team members.

◆ **Software Development on BPAT**

 Description: It's a tool used by 4G BTS designers to automate tests on spoff (off-target 4G BTS). Use it to test 4G BTS functionality. We write test cases that send target commands then define validation code for the returned results to declare the test as a pass or fail. Based on the feedback, we can make the further reaction.

Personal Responsibility:

（1）Help the supervisor to design the system based on the need of the client；

（2）Modify the application interface to meet the need under the different circumstance；

（3） With the corporation of team members, write the code and technical paper。