High-Accuracy and High-Speed Digital Image Processing and Recognition
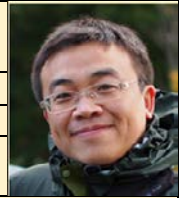
Xiaoyong ZHANG

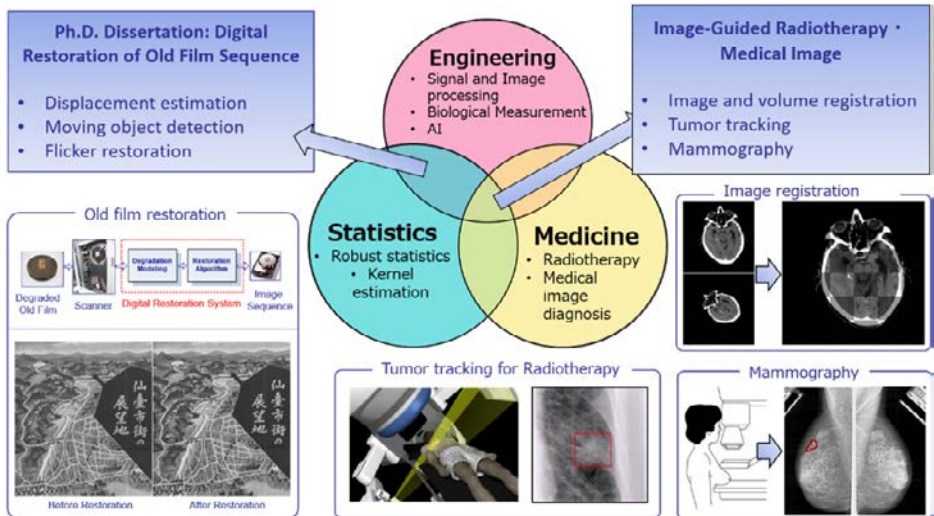| Assistant Professor	xiaoyong@sendai-nct.ac.jp
Affiliated Societies	IEEE (Senior Member) IEICE
Keywords	Biomedical engineering (90110) Tumor diagnostics and therapeutics (50020) Life, health and medical informatics (62010)

Research Topics

- Digital restoration of old film
- High-accuracy image registration
- Image-guided radiation therapy
- Computer-aided diagnosis

Research Seeds

Digital image processing is an important field in information science. It has been applied widely to various applications. Our study specifically examines development of high-accuracy and high-speed image processing and recognition algorithms for several applications such as image restoration and medical image applications. The following diagram presents our recent studies and the related technologies involved in our study.

A publication list can be found in the following URL:
https://researchmap.jp/7000000486/?lang=japanese

Related Technology

- Oncology
- Radiation therapy
- Medical imaging