

# Workshop on Medical Imaging

Meeting room at Research Center for Frontier Medical Engineering, Chiba University  
November 5<sup>th</sup> (Wed), 2008

## Sponsored by:

Joint-Industry-Academia-Government Cooperative Project  
Chiba Industry Advancement Center

予防医療研究会

Research Center for Frontier Medical Engineering, Chiba University

## Schedule:

13:00 - 13:20

**Prof. Yoichi Miyake,**

1. Welcome and Overview of Research Activities at the Research Center for Frontier Medical Engineering, Chiba University
2. An overview of Joint-Industry-Academia-Government Cooperative Project  
“Development of integration system with low-cost, non-invasive, high resolution and reliability for early diagnosis of lifestyle diseases”

13:20 - 14:00

**Prof. Magnus Borga (Linköping University, Sweden),**

“An overview of research in medical image processing at the Center for Medical Image Science and Visualization and the Department of Biomedical Engineering at Linköping University”

14:00 - 14:30

**Dr. Gunnar Låthén (Linköping University, Sweden),**

“Phase Based Level Set Segmentation of Blood Vessels”

14:30 - 14:40

**Coffee Break**

14:40 - 16:00

**Presentations by Ph.D. course students**

1. Kenji Kamimura, “Pixel-based super-resolution for video”
2. Keita Hirai, “Spatio-velocity contrast sensitivity function  
and moving picture quality evaluation”
3. Shinji Nakagawa, “Motion blur perception considering anisotropic CSF”
4. Takao Makino, “Computational lighting reproduction  
for facial live video with rigid facial motion”
5. Takeshi Koishi, “Computer-assisted measurement, simulation and guidance  
for minimally invasive medical procedures”
6. Mai Sasaki (master’s course), “Absolute length measurement  
using manually decided stereo correspondence for endoscopy”
7. Ahmed Afifi, “Particle swarm optimization  
based medical image segmentation technique”
8. Shingo Tate (master’s course), “Pancreatic segmentation  
using shape-based level set”

16:00 -

**Discussion**

17:00 -

**Welcome Small Party with Students of Miyake laboratories**