CURRICULUM VITAE
XIN LIU, PH.D. CANDIDATE

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EDUCATION

❖ **ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL**
   Doctor of Philosophy in Electrical Engineering, 2007-present
   Master of Science in Electrical Engineering, 2006
❖ **UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA, CHENGDU, CHINA**
   Master of Science in Electrical Engineering, 2006
   Bachelor of Science in Electrical Engineering, 2003

RESEARCH EXPERIENCE

❖ **RESEARCH ASSISTANT:** Department of Electrical Engineering, IIT (2007–Present)

   ◆ Research on image processing and computer vision.
      - Prostate segmentation from 3D MR images
      - Prostate cancer localization from multispectral MR dataset
      - Liver segmentation from 3D CT dataset
      - 3D medical image dataset visualization
      - Blood vessel enhancement

   ◆ Research on signal processing.
      - Digital beam forming (DBF) of phase controlled radar system
      - Synthesis of shaped beam antenna patterns

HONORS AWARDED

❖ **Research Assistant Scholarship**, Illinois Institute of Technology, 2007 – 2008

❖ **Teaching Assistant Scholarship**, Illinois Institute of Technology, 2008 – 2009

❖ **Travel Award**, IEEE ICIP, San Diego, 10/2008

❖ **Excellent Graduate Student**, University of Electronic Science and Technology of China, 1999-2003

PUBLICATIONS

JOURNAL
[2] Xin Liu, Imam Samil Yetik, Deanna L. Langer, Masoom A. Haider, Yongyi Yang, Miles N. Wernick, "Prostate Cancer Segmentation with Simultaneous Estimation of Markov Random Field Parameters and Class," accepted to publish by IEEE trans. Medical Imaging, 2009.
[1] Sedat Ozer, Deanna L. Langer, Xin Liu, Masoom A. Haider, Theodorus H. van der Kwast, Andrew J. Evans, Yongyi Yang, Miles N. Wernick, Imam Samil Yetik, "Supervised and Unsupervised Methods for Prostate Cancer Localization with Multispectral MRI ", to submit.

CONFERENCE
[3] Xin Liu, Imam Samil Yetik, Miles N. Wernick, "Simultaneous Estimation of the Markov Random Field Parameters and the Classes for Image Segmentation," ICIP 2008: 3048-3051.
[2] Xin Liu, D. L. Langer, M. A. Haider, et al. "Unsupervised Segmentation of the Prostate Using MR Images Based on Level Set with a Shape Prior", submitted to EMBS 2009.
[1] Xin Liu, Y. Yang, Z. He, "A Combination Method for Medical Image Segmentation", Beijing Area Academic Symposium on Information and Communication Technology 2006.