

# CURRICULUM VITAE of

Dr. Ali Samir SAAD

Office phone: 469-3653, Email: [alisaad@ksu.edu.sa](mailto:alisaad@ksu.edu.sa)

Website: <http://faculty.ksu.edu.sa/alisaad>

## EDUCATION

**Ph.D. in Electrical Engineering:** Digital image processing; Sept 1996, Polytechnics school of Engineering - University of Nantes, France.

**MSc in Electronics and informatics systems,** July 1993, Polytechnics school of Engineering - University of Nantes, France.

**MSC in Digital Image processing;** Sept 90. IFSIC (*Institute of Computer Sciences and Communication*). University of Rennes, France

**B.Sc. of Electrical Engineering,** July 1989, University of Saint-Etienne, Academy of Lyon, France

## ACADEMIC EXPERIENCE

- **October 1996 – July 2000:** postdoctoral associate at National center for macromolecular imaging Baylor Houston, Tx. USA.
- **August 1999 – May 2009:** Assistant professor, King Saud University, College of applied Medical Sciences, Biomedical Technology, Dept.
- **June 2009 – present:** Associate professor, King Saud University, College of applied Medical Sciences, Biomedical Technology, Dept.

## PUBLICATIONS

### Journals

- **A.S. Saad,** Simultaneous Speckle Reduction and Contrast Enhancement for Ultrasound Images: Wavelet versus Laplacian Pyramid , PRIA -Pattern Recognition and Intelligence Artificial. *Vol. 18, No. 1, pp. 63–70, 2008,*
- **S. Saad,** Visual enhancement of digital ultrasound images: Wavelet versus Gauss-Laplace contrast pyramid, **International Journal of Computer Assisted Radiology and Surgery, vol.2. No. 2, August -pp.117-125, 2007.**
- **S. Saad:** Orientation determination by wavelets matching for 3D reconstruction of very noisy electron microscopic virus images, **BMC Structural Biology, 5:9, 2005.**  
[http://www.biomedcentral.com/1472-6807/5/5.](http://www.biomedcentral.com/1472-6807/5/5)
- **M. Paredes, D. Ferreira, M. Horton, A. Saad, H. Tsuruta, R. Johnston, W. Klimstra, K. Ryman, R. Hernandez, W. Chiu and D. T. Brown,** "Conformational Changes in *Sindbis* virions Resulting from Exposure to Low pH and Interactions with Cells Suggest that Cell Penetration May Occur at the Cell Surface in the Absence of Membrane Fusion", **Virology 324:373-387 ; 2004.**

- **S. Saad:** Wavelets filtering for classification of very noisy electron microscopic single particles images- Application on structure determination of VP5-VP19C recombinant. *BMC Structural Biology*, 3:9, 2003.

### Conferences

- Ali Saad, "Remote Monitoring of Heartbeat and Respiration Rates Using Microwave System", Third Scientific forum, Saudi Medicare, Riyadh international exhibition center, 17-20 May 2009.
- Ali Saad, "Speckle Reduction of Ultrasound Images Using Wavelets Analysis", International Medical and biomedical Engineering symposium IMIBE, Jordan , Aman, March 2006.
- Ali Saad, Ali El Zaart and Ali Al-Mejrad, Speckle Reduction in Digital Ultrasound Images by Multi-Resolution Contrast Enhancement. Kuala Lumpur International Conference on Biomedical Engineering 2004, IFMBE (BioMed 2004), , Kuala Lumpur, Malaysia. September 2-4, 2004
- Ali El Zaart, Ali Al-Mejrad and Ali Saad, Segmentation of Mammography Images for Breast Cancer Detection. Submitted to the Kuala Lumpur International Conference on Biomedical Engineering 2004, IFMBE (BioMed 2004), Kuala Lumpur, Malaysia. September 2-4, 2004 ,
- Ali Saad and Wah Chiu.: Hierarchical wavelet projection matching for orientation determination of low contrast electron cryomicroscopic images of icosahedral virus particles ICASSP-2000, International conference on Acoustics, Speech and Signal Processing, Istanbul, Turkey, June 2000.