

Usman Saeed

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Education:

PhD – Video based Facial Analysis (2006 - Present)
Telecom Paris (ENST), France.

Master (Research) STIC Specialty Image and Geometry for Multimedia and Modeling of Living (2005-2006) 14.65/20
University of Nice- Sophia Antipolis, France.

Bachelor of Science in Computer Systems Engineering (2000-2004) CGPA: 3.01/4.0
GIK Institute of Engineering Sciences & Technology Topi, Pakistan.

Fellow of Science (Pre-Engineering) (1998-2000) 813/1100
Forman Christian College Lahore, Pakistan.

Work Experience:

Institute Eurecom (Multimedia Department), France. Internee, Mar 2006-Aug 2006

- Worked on facial analysis on video sequences for person and expression recognition.
- Assisted in labs relating to Biometrics and Image Security.

COMSATS Institute of IT (EE Department), Pakistan. Research Associate, Sept 2004-May 2005

- Designed and conducted labs of Signals and Systems and Digital Signal Processing.
- Faculty advisor ACM and IEEE student chapter.

Netsol Technologies (Pvt) Limited (HR Department), Pakistan. Internee, Summer 2003

- Participated in the implementation phase of CMM level 3 KPA “Training Program”.
- Participated in the development of Human Resource Management System (HRMS) and NetSol Library System (NLS).
- Initiated the Health and Safety Program.

PhD Thesis:

Currently studying various possibilities of using facial information present in low quality videos from mobile devices (PDA, Cell Phone, etc.) for person identification and/or authentication. This PhD is part of the French RNRT project “Biometrics Bimodal on Mobile (BioBiMo)” which aims at exploiting face and voice modalities as means of non-intrusive biometrics to be used on mobile devices.

Final Project (Master):

Extraction and modeling of local behavioral features, pertaining to eye and mouth motion such as eye blinks and speech speed from facial video sequences using bayssienne classification for recognition of people.
Implementation platform: MatLab

Final Project (Bachelor):

Designed and developed a computer vision system that utilizes stereo pair of digital USB cameras and estimates the distance of user selected objects, using the concept of disparity calculation and triangulation.
Implementation platform: MatLab

Publication:

Saeed, Usman; Matta, Federico; Dugelay, Jean-Luc

Person recognition based on head and mouth dynamics.

IEEE International Workshop on Multimedia Signal Processing, October 3-6, 2006, Victoria, Canada.

Saeed, Usman; Dugelay, Jean-Luc

Person recognition form video using facial mimics.

IEEE International Conference on Acoustic, Speech and Signal Processing, April 15-20, 2007, Hawaii, USA.

Semester Projects:

- Recursive implementation of Deriche filters in MATLAB. (PDE for Image Processing)
 - Virtual Environment in OpenGL. (Audio and Image Synthesis)
 - User-friendly Interfaces for database applications using Java & Flash. (Human Computer Interaction)
 - Simulation of Remote Control for DC motor, using Circuit Maker. (Digital Logic Design)
 - Implemented student database using UNIX shell script. (Operating System)
 - C++ Implementation of 68000 Assembler. (Computer Architecture)
 - Implemented real time plotting of transistor curve using MATLAB. (Microprocessor Interfacing)
 - Audio Compression using MATLAB. (Signal & System)
 - Developed course time table scheduling software using Prolog. (Artificial Intelligence)
 - Designed and implemented a road path finder using MATLAB. (Digital Image Processing)
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Professional Skills:

- Programming platforms: Visual C ++, OpenGL, Java, Prolog, Assembly Language and MATLAB.
 - Object Oriented Design and Analysis using UML and Rational Rose.
 - Database design & Implementation: Oracle 8i, PL/SQL, SQL Server 2000.
 - Web Development: Macromedia Dreamweaver, Macromedia Flash, HTML , Adobe Photoshop.
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Co-Curricular Activities:

- Founding Faculty Advisor ACM Student Chapter at COMSATS Institute of IT Lahore
 - As Executive Member of GIKI Science Society, organized 3 National level Science Competitions and numerous internal events.
 - As Executive Member of GIKI Media Club, organized and conducted various workshops on Macromedia Flash and Ulead Media Studio pro.
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Awards/Achievements:

- Selected for "Study in France 2005" program for post graduate studies.
 - Awarded MoST (Ministry of Science and Technology) Scholarship for BS.
 - Won 1st position in IEE Microprocessor Interfacing Project competition at GIKI.
 - Awarded the Deans Honor Roll at GIKI. (Semester GPA > 3.5).
 - Certificate for theatrics workshop from Usman Pirzada.
 - NCA Certified web designer.
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Languages:

- Urdu (Mother language).
- English (Excellent).
- French (Good).

Travel:

- United States of America.
- Europe.
- Middle-East.