

## Dr. Muhammad Wasim

*Assistant Professor*

### Contact Information:

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Ext.: 3054



## Qualification

- PhD (Information Technology)  
Hamdard University  
2016
- MS (Mobile Computing & Information System)  
Hamdard University  
2007
- MCS (Computer Science)  
Hamdard University  
2003
- M. Phil (Bio-Physics)  
University of Karachi  
2005
- M.Sc (Bio-Physics)  
University of Karachi  
1994

## Area of Specialization

- Digital Image Processing
- Computer Vision and Computer Graphics
- SPSS, Assembly Language, JAVA, MATLAB

## Work Experience

- Designation: Assistant Professor
- Organization: Usman Institute of Technology
- Period: 21 Years

## Membership & Affiliation

- Life time member of “Pakistan Association of Scientist and Scientific Professions”

## Research Interests

- Digital Image Processing
- Computer Vision
- Implementation of Moiré and Raster-stereography techniques

## Courses Taught

- Advanced GSM Architectures, Digital Image Processing, Computer Graphics
- Operating Systems, Digital Logic Design, Data Structures, Computer Architecture & Organization, Programming Fundamentals, Probability and Statistics, Physics
- Internet Programming (JAVA), System Programming

# Publications & Conferences

- **Journal Publications:**

1. Need for Disaster Management in Pakistan - A Critical View  
Research Journal of NICE, 2016
2. A Security System Employing Edge-Based Rasterstereography International Journal of Biology and Biotechnology Ref: 10(4): 613-630, 2013
3. Physics and Geometry of Heart Sound Quadrilateral Journal of Information & Communication Technology Vol. 1, No. 2, (Fall 2007) 74-82 Inspec Classification: A877OF, B7510, C3385, C7330
4. Physics of scoliosis screening in school going children Karachi University Journal of science. Ref. Kar.Univ.J.Sc. 26(1) 5-12 (1998)
5. Physics of screening procedures to detect trunk deformities Third Annual National Symposium of the Aga Khan University Ref: "Impact of research on health, education and community development". Karachi- September 21 & 22, 1996
6. Fauzan Saeed, M. Wasim, Abdul Aziz, "Restraining Terrorism: A UWB Based Communication Infrastructure for Preventing Terrorist Activities in Pakistan". Journal of Information & Communication Technology (JICT), Institute of Business & Technology (IBT), ISSN NO.: 1816-613, Vol. 10, No. 2. 2016

- **Conference Publications:**

1. Restraining Terrorism: A UWB Based Communications Infrastructure for Preventing Terrorist activities in Pakistan
2. A Security System-cum-Background Rating System through Face Recognition Employing Edge-Based Rasterstereography 2nd Conference on "Anthro & Sports Mathematics" at Government College Hyderabad

September 3 & 4 2014

3. Card less authorization and Charge System Seventh Symposium on Computational Complexities, Innovations and Solutions (7th CCIS), the COMSATS Institute of Information Technology, Abbotabad, KP, Pakistan, May 7, 8, 2012
4. M. Wasim, "Dotted Raster-stereography – an efficient approach", International Conference on Information Technology & Computer Sciences 2016-2017, October 30-31, 2016. [Paper selected for best paper award of the conference]

- **Book Publication:**

Rasterstereography Based Partial Face Recognition – A Novel Technique can be used as Identification-Based Security System. Book Published in August 2014 (Germany)

- **Book Chapter Publication:**

M. Wasim, Abdul Aziz, Fauzan Saeed, "Dotted Rasterstereography: Revolutionizing Approach for Face Identification", Book chapter accepted for publication, 2016 (USA).