



Syed Faisal Ali

*Assistant Professor, Program Coordinator
Department of Computer Science*

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Qualification

- Ph.D. Candidate in (Artificial Intelligence – Computer Vision)
Universiti Teknologi Petronas, Malaysia
- MS (Artificial Intelligence – Image Processing)
Iqra University, Pakistan
2004
- MCS (Networking & Web Engineering)
Iqra University, Pakistan
2000

Area of Specialization

- Computer Vision
- Digital Image Processing
- Artificial Intelligence

Work Experience

- **Assistant Professor, Program Coordinator & FYP In-charge**
Department of Computer Science
Usman Institute of Technology
Feb 1, 2012 - Present

Work Experience (Continued)

- **Research Scholar & Graduate Assistant**
Department of Computer Science
Universiti Teknologi, PETRONAS (UTP), Malaysia
Feb 2009 – Dec 2011
- **Assistant Professor**
Department of Computer Science & IT
COMSATS IIT, Abbottabad
Oct 2007 – Jan 2009 (on Leave)
- **Assistant Professor**
Department of Computer Science
Iqra University, Karachi
July 1998 – Jan 2007
- **Project Manager/ Analyst**
Application & Wireless (LLC) Karachi
Feb 2007 – Sept 2007
- **Technical Support Analyst**
White Wings Consulting Co.
New York City – USA
Jan 2003 – Mar 2003
- **System Analyst / Programmer**
Crescent Systems (LLC)
Maryland – USA
Jun 2002 – Nov 2002
- **Software Engineer/ Programmer**
Cyberstate Solutions
Karachi
Feb 1998 – Nov 2001

Membership & Affiliation

- **IEEE** Membership since Jan 2011, membership # 91198787.
- **IAENG** since 2011 since Mar 2011, membership # 112908
 - The IAENG Society of Artificial Intelligence
 - The IAENG Society of Computer Science
 - The IAENG Society of Imaging Engineering
 - The IAENG Society of Scientific Computing

Research Interests

- Fuzzy Logics
- Genetic Algorithms
- Intelligent Systems
- Deep Learning

Courses Taught in BS/MS

Undergraduate

- Artificial Intelligence & Robotics
- Artificial Neural Networks
- Data Structures
- Algorithm Analysis & Design
- Compiler Construction
- Formal Languages & Finite Theory of Automata
- Discrete Mathematics
- Visual Programming
- Design Patterns
- Computer Graphics
- Digital Image Processing
- Network Programming
- Advanced Numerical Computing
- Object Oriented Programming
- Business Information Systems
- Structural Programming using C++
- Calculus
- Pre-Calculus
- Management Information Systems
- Database Management Systems
- Software Engineering
- Introduction to Web Engineering

Graduate

- Seminars in IT
- Programming Fundamentals
- Knowledge Based Systems
- Introductions to Logical Thinking
- Artificial Neural Networks
- AI and Applications in Chemical Engineering

Publications & Conferences

- Image Processing using Interpolation Techniques (Iqra University – Karachi, 2004)
- Remote Sensing and GIS in Pakistan (Iqra University – Karachi, 2005)
- Image Processing Using SAR (Iqra University – Karachi, 2005)
- Proposed Technique for Aircraft Recognition in Intelligent Video Automatic Target Recognition (IVATRs), ICCAIE 2010 International Conference on Computer Applications and Industrial Electronics 2010, Kuala Lumpur) – (IEEE, ISI Indexed).
- Proposed Theoretical Framework of Intelligent Video Automatic Target Recognition Systems (IVATRs), NPC 2011, National Postgraduate Conference, Tronoh – Perak, Malaysia. (IEEE, ISI Indexed)
- Human Movement Recognition using Euclidean Distance: A Tricky Approach, 2010. 3rd International Congress on Image and Signal Processing (CISP2010).
- Proposed Novel Selection Criteria in Genetic Algorithm based on Treatable Infertility in Parents and 3D Chromosome Model Journal Paper: Framework for IVATRs (2nd Review) Manuscript # 29256- RJIT-AJ
- 3D Chromosome Mathematical Operators and Model, Journal Paper IJCSE, (Review)