Dr. Rafi Ullah

Assistant Professor
Computer Science and Information Department
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Research Interests:
Multimedia (images, audios, and videos) security and machine learning approaches. Digital watermarking techniques (for copyright protection, authentication, fingerprint etc.) are employed for securing the digital contents especially digital images (greyscale and color) and medical images. Furthermore, I am working in the neuro-imaging, Brain signals (EEG). Analyzing EEG signals and tracks the activation paths by using motion estimation techniques and applying GP to optimize the paths. In addition, I am using watermarking techniques to authenticate and secure the EEG signals Video and Image Processing
Language Skills
English, Urdu, Pashto

Qualification (Career and University Education)

1998-2001	M.Sc Degree (Computer Science)	First Class, University of Peshawar, KPK, Pakistan
2004-2006	MS Degree (Computer System Engineering)	First Class, Ghulam Ishaq Khan Institute, Swabi, KPK, Pakistan
2006-2010	PhD Degree	
	(Computer and Information Sciences)	First Class, Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad Pakistan

Career	Position Held

December 2001 – April 2004	Lecturer, Nisar Shaheed Degree College Risalpur Cantt, KPK Pakistan
September 2010 –	Assistant Professor, AIR University Islamabad, Pakistan

September 2011	
September 2011 – September 2012	**Post-Doc Researcher, Electrical and Electronic Department, University Technology PETRONAS, Malaysia**
March 2013 – January 2015	**Assistant Professor, COMSATS Institute of Information Technology, Islamabad Pakistan**
January 2015 – to date	**Assistant Professor, Department of Computer Science, College of Science Al-Zulfi, Majmaah University, KSA**

Publications

1. Humaira Nisar, Aamir Saeed Malik, Rafi Ullah, Seong-O Shim, Abdullah Bawakid, Muhammad Burhan Khan and Ahmad Rauf Subhani (2015). Tracking of EEG Activity Using Motion Estimation to Understand Brain Wiring, Signal and Image Analysis for Biomedical and Life Sciences Springer, volume 823, pp. 159-174.

2. Naeem Sattar, Sheikh Ziauddin, Sajida Kalsoom, Ahmad R. Shahid, Rafi Ullah, Amir H. Dar (2014). An Orange Sorting Technique Based on Size and External Defects, Accepted in International Conference on Image Processing, Computer Vision and Pattern Recognition, Los Vegas USA

3. Rafiullah Chamlawi., Chang T-sun Li, Asifullah Khan, and Imran Usman (2009). Authentication and recovery of digital images: Potential application in video surveillance and remote sensing, IEEE Consumer Electronics.

4. Rafiullah Chamlawi., Imran Usman, Asifullah Khan (2009). Dual watermarking method for secure image authentication and recovery, INMIC-IEEE.

5. Imran Usman, Asifullah Khan, and Rafiullah Chamlawi (2009). Perceptual shaping in digital image watermarking using LDPC codes and genetic programming. Applications of Soft Computing, Advances in Soft Computing, Vol. 58, 2009, Springer, pp. 509-518.

6. Imran Usman, Asifullah Khan, and Rafiullah Chamlawi (2008). Towards a better robustness-imperceptibility tradeoff in digital watermarking. Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering, pp. 226-230.

7. Imran Usman, Asifullah Khan, and Rafiullah Chamlawi (2008), A generalized approach for embedding watermark in digital images using LDPC codes and genetic programming. WSC 2008 Online World Conference on Soft Computing in Industrial Applications, pp. 151.

8. Imran Usman, Asifullah Khan, and Rafiullah Chamlawi (2007). Image authenticity and perceptual optimization via genetic algorithm and a dependence neighborhood. International Journal of Applied Mathematics and Computer Sciences, vol. 4(1), pp. 615-620.

9. Rafiullah Chamlawi, Asifullah Khan, and Adnan Idris (2006). A secure semi-fragile watermarking scheme for authentication and recovery of images based on wavelet transform, WASET.

International Journals

1. Rafi Ullah, Asifullah Khan, and Aamir Saeed Malik (2013). Dual-purpose semi fragile watermark; authentication and recovery of digital images, Journal of Computers and Electrical Engineering, Elsevier, Vol. 39, pp. 2019-2030 [IF: 0.992].

2. Asifulllah Khan, Sana Ambreen Malik, Asad Ali, Rafiullah Chamlawi, Mutawwara Hussain, M. Tariq Mehmood, and Imran Usman (2012).Intelligent reversible watermarking and authentication: hiding depth map information for 3d cameras., Information Sciences, Elsevier, vol. 216, pp. 155 - 175, [IF: 3.893].

3. Sana Ambreen Malik, Asifullah Khan, Mutawarra Hussain, KhurramJawad, Rafiullah Chamlawi, Abdul Jalil (2012). Authentication of images for 3d cameras: reversibly embedding information using intelligent approaches. Journal of Systems and Software, vol. 85(11), pp. 2665 – 2673, [IF: 1.245].

4. Imran Usman, Asifullah Khan, and Rafiullah Chamlawi (2011). Employing intelligence in the embedding and decoding stages of a robust watermarking system. AEU-International Journal of Electronics and Communications, vol. 65(6), pp. 582-588 [IF: 0.696].

5. Rafiullah Chamlawi. and Asifullah Khan (2010).Digital image authentication and recovery: Employing integer transform based information embedding and extraction. Information Sciences, Elsevier, 180(24): 4909-4928 [IF: 3.893].

6. Rafiullah Chamlawi., Asifullah Khan, and Imran Usman (2010). Authentication and recovery of images using multiple watermarks. Computers & Electrical Engineering, vol. 36(3), pp. 578-584 [IF: 0.992].

7. Rafiullah Chamlawi, Asifullah Khan, and Adnan Idris (2007) Wavelet based image authentication and recovery. Journal of Computer Science and Technology, vol. 22(6), pp. 795-804 [IF: 0.642].

Teaching Experience

January 2015 – to date	Assistant Professor, Department of Computer Science, College of Scienc Al-Zulfi, Majmaah University, KSA	Jan. 2015 – to date