Muhammad Shahid Farid

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Universitá Degli Studi Di Torino, Torino, Italy
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Education

PhD Computer Science   **Jan. 2013 - In Progress**
Universita Degli Studi Di Torino, Torino, Italy

M.Phil Computer Science   **Sep. 2007 - Sep. 2009**
University of the Punjab, Lahore, Pakistan
Thesis title: "Image Morphing in Frequency Domain"
Supervisor: Dr. Arif Mahmood

M.Sc Computer Science   **Mar. 2004 - Mar. 2006**
University of the Punjab, Lahore, Pakistan

Bachelor of Science in Computer Science (BCS)   **Sep. 2000 - Sep. 2003**
University of the Punjab, Lahore, Pakistan

Research Interests

Image Processing, Computer Vision and Computer Graphics specifically 3DTV, image and video compression, image morphing, image inpainting, image enhancement, image composition

Journal Publications

1. M.S. Farid, M. Lucenteforte, M. Grangetto, "Panorama View With Spatiotemporal Occlusion Compensation for 3D Video Coding," *Image Processing, IEEE Transactions on*, vol.24, no.1, pp.205–219, Jan. 2015

2. M.S. Farid, A. Mahmood, "An Image Composition Algorithm for Handling Global Visual Effects," *Multimedia Tools and Applications*, Volume 71, Issue 3 (2014), Page 1699–1716

3. M.S. Farid, A. Mahmood, "Image Morphing in Frequency Domain," *Journal of Mathematical Imaging and Vision*, Volume 42, Number 1, 50–63, Jan. 2012

4. T. Mahmood, M.S. Farid, "Multi-Agent Task Scheduling In University Environment," *IAES International Journal of Artificial Intelligence (IJ-AI)*, Volume 1, Number 4, pp. 193–200, 2012

Conference Publications

5. M.S. Farid, M. Lucenteforte, M. Grangetto, "Edge enhancement of depth based rendered images," *in Image Processing (ICIP), 2014 IEEE International Conference on*, Oct. 2014, pp. 5452-5456

6. M.S. Farid, M. Lucenteforte, M. Grangetto, "A panoramic 3D video coding with directional depth aided inpainting," *in Image Processing (ICIP), 2014 IEEE International Conference on*, Oct. 2014, pp. 3233-3237

7. M.Y. Qazi, M.S. Farid, "Content Based Image Retrieval using Localized Multi Texton Histogram," *in Proceedings of the Frontiers of Information Technology (FIT), 2013 IEEE 11th International Conference on* , Dec. 2013, pp. 107–112

8. M.S. Farid, M. Lucenteforte, M. Grangetto, "Depth image based rendering with inverse mapping," *in Proceedings of the Multimedia Signal Processing (MMSP), 2013 IEEE 15th International Workshop on*, Sep. 2013, pp. 135–140

9. M.S. Farid, M. Lucenteforte, M. Grangetto, "Edges shape enforcement for visual enhancement of depth image based rendering," *in Proceedings of the Multimedia Signal Processing (MMSP), 2013 IEEE 15th International Workshop on*, Sep. 2013, pp. 406–411

10. M.M. Mubasher, M.S. Farid, A. Khaliq, M.M. Yousaf, "A Parallel Algorithm for Change Detection," *in Proceedings of the Multitopic Conference (INMIC), 2012 15th International*, Dec 2012, pp. 201–208

11. M.S. Farid, H. Khan, A. Mahmood, "Image Inpainting using Cubic Hermit Spline," *in Proc. SPIE 8285, International Conference on Graphic and Image Processing (ICGIP 2011)*, 82854R, September 30, 2011, DOI:10.1117/12.913301

12. M.S. Farid, H. Khan, A. Mahmood, "Image Inpainting based on Pyramids," *in Proceedings of the Signal Processing (ICSP), 2010 IEEE 10th International Conference on* 2010, pp. 711–715

13. M.S. Farid, H. Khan, "Image Inpainting using Dynamic Weighted Kernels," *in Proceedings of the Computer Science and Information Technology (ICCSIT), 2010 3rd IEEE International Conference on*, July 2010, pp. 252–255

Patents

14. M. Grangetto, M. Lucenteforte, A. Basso, G. Ballocca, M.S. Farid, "Method and Device For Edge Shape Enforcement For Visual Enhancement of Depth Image Based Rendering of A Three-Dimensional Video Stream", US Patent 20150091899, April 2, 2015

Honors/ Awards/ Grants

- Research Incentive Award of Rs. 50,000 from University of the Punjab, Lahore, Pakistan, Aug. 2013

- Scholarship for PhD study at Universit degli Studi di Torino, Italy (Jan. 2013 - Dec. 2015) from University of the Punjab, Lahore, Pakistan, Nov. 2012

- Research Grant of Rs. 125,000 from University of the Punjab, Lahore, Pakistan, Sep. 2012

- First position in BCS (Computer Science)

- Second position in MSc (Computer Science)

- First position in M.Phil (Computer Science)

- Three merit scholarships in MSc

Workshops/ Schools/ Seminars Attended

1. *Second Short Spring School in Surveillance S5*, May 7-9, 2013, University of Modena and Reggio Emilia, Italy

2. *Bertinoro International Spring School*, March 3-9, 2013, University Residential Center Bertinoro (Forli-Cesena), Italy

3. *Programming Nervous System with Visualizations* by Dr. Arif Mahmood, University of the Punjab, Lahore, Pakistan. December, 2012

4. *2nd International Conference on Machine Vision*, Islamabad, Pakistan, December 29-31, 2010

5. One Day Training Workshop on *"Turnitin Anti-Plagiarism Software"*, organized by University of the Punjab, Lahore, Pakistan, 2009

Languages/ Tests

- English IELTS: 6.5 (2011)

- Urdu (National Language)

- Punjabi (Native Language)

- NTS GAT (General):73 Percentile:99 (2007)

- NTS GAT (Computer Science):68 Percentile:85 (2011)

Employment, University of the Punjab

Lecturer *Nov. 2008 to present*
Courses: Analysis of Algorithms, Theory of Automata, Digital Image Processing, Multimedia System Development

Visiting Lecturer *Mar. 2007 - Nov. 2008*
Courses: Analysis of Algorithms, Theory of Automata, Software Project Management, Software Quality Assurance

Employment, Masood Textile Mills

Software Engineer *May 2006 - March 2007*
Worked as Software Engineer and System Analyst at MRP-II, a mega project at Masood Textile Mills, Faisalabad. I developed Order Capturing Component (OCC), Rough Cut Capacity Planning (RCCP) and Capacity Requirement Planning (CRP) modules.