

Curriculum vitae

Personal

Name: **Muhammad Khawar Islam**

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Qualifications:

<u>Degree</u>	<u>year</u>	<u>University</u>
1. Ph.D Electrical Engineering	1998	University of New South Wales, Sydney, Australia.
2. M.Eng. Sc. (Dig. Comm.)	1993	University of New South Wales, Sydney, Australia.
3. B. Sc. Eng. (<i>GOLD MEDAL</i>)	1987	University College of Engineering, Mirpur (AJ&K)

Post Doctoral Research:

- 20th August 2004 to 31st May 2006, City University of Hong Kong, HONG KONG.

Experience (*September 1987 to date*)

- **Present position:**
4th March 2015 to Date, **Professor**, (Electrical Engineering), Taibah University, Kingdom of Saudi Arabia.
- 1st November 2012 to February 2015, **Dean/Director**, Faculty of Engineering & Technology (**Professor in Electrical Engineering**), University of Gujrat, GUJRAT, Pakistan.
- 22nd July 2010 to 31st October 2012, **Chairman/Professor**, Department of Telecommunication Engineering, University of Engineering & Technology, Taxila, Pakistan.
- 10th November 2006 to 21st July 2010, **Professor**, Software Engineering, University of Engineering & Technology, Taxila, Pakistan.
- 1st June 2006 to 8th November 2006, **Professor**, Electrical Engineering, University of Azad Jammu & Kashmir, Mirpur Campus, (AJ&K)
- 20th August 2004 to 31st May 2006, **Research Fellow** at Optoelectronics Research Centre, Department of Electronic Engineering, City University of Hong Kong, HONG KONG.
- 1st September 2001 to 18th August 2004, **Professor/Chairman** Department of Computer Sciences & Information Technology, University of Azad Jammu & Kashmir, Mirpur Campus, (AJ&K)
- September 1987 to August 2001, worked as Lecturer, Assistant Professor and Associate Professor, University College of Engineering, Mirpur (AJ&K)
- **Ph.D. Supervision:**
 - **Thesis Supervised:**
 1. Microwave signal generation in optical domain for Radio over Optical Fiber based broadband wireless access (graduated in 2012)
 2. Generation and control of chaos for secure optical communication using Erbium Doped Fiber Ring Laser (graduated in 2011)
 3. Polarization mode dispersion: its measurement and impact on soliton transmission characteristics (graduated in 2006)
 - *Two Researchers are currently enrolled under my supervision.*

Selected Research Publications (Secure Communication):

- [1] S. Zafar Ali and M. K. Islam, "Erbium-doped fiber ring laser dynamical analysis for chaos message masking scheme", *Optica Applicata*, Vol 47/3, pp: 395-410, December 2017.
- [2] Farhan Qamar, M. K. Islam, S. Zafar Ali, Romana Farhan and Mudassar Ali, "Secure Duobinary Signal Transmission in Optical Communication Networks for High Performance & Reliability", *IEEE Access*, Vol 5, pp: 1108-112, September 2017.
- [3] Hafiz Muhammad Obaid, M. K. Islam and M. Obaidullah "Simulation Experiments to generate Broadband Chaos using Dual-wavelength Optically Injected Fabry-Parot Laser " *Journal of Modern Optics* Vol 60, No.21, 2016
- [4] M. R. Asif, M. Zafrullah and M. K. Islam "All-Optical Signal Processing of Fiber Impairments in Dual-Polarization 112Gbit/s m-ary QAM Coherent Transmission" *Journal of The Optical Society of Korea* Vol:17, No.1, pp:57-62, February 2013
- [5] S. Zafar Ali, M. K. Islam and M. Zafrullah, "Effect of Transmission Fiber and Amplifier Noise on Optical Chaos Synchronization", *Optical Review, Japan*, Vol 19/5, pp:320-327 (2012).
- [6] S. Zafar Ali, M. K. Islam and M. Zafrullah, "Effect of transmission fiber on Dense Wavelength Division Multiplexed (DWDM) chaos synchronization", *OPTIK Elsevier*, Vol 124/12, pp: 1108-112.
- [7] S. Zafar Ali, M. K. Islam and M. Zafrullah, "Comparative Analysis of Chaotic Properties of Optical Chaos Generators", *OPTIK Elsevier*, 123/11 (2012), pp. 950-955.
- [8] S. Zafar Ali, M. K. Islam and M. Zafrullah, "Generation of higher degree chaos by controlling harmonics of the modulating signal in EDFRL", *OPTIK Elsevier*, 122/21 (2011), pp. 1903-1909.
- [9] S. Zafar Ali, M. K. Islam and M. Zafrullah, "Effect of Parametric variation on generation and enhancement of chaos in Erbium Doped Fiber Ring laser", *Journal of Optical Engineering, USA*, vol. 49, No. 10, October 2010.