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About

Dr Ghafouri-Shiraz is a Reader and the Head of postgraduate PhD studies in the School of Electronic, Electrical & Computer Engineering (EECE). His research interests are in the field of optical fibre communications, networks, devices, microwave filters and antennas. He has published more than 230 papers in refereed journals and also is the author of five books. He has received grants from the Engineering and Physical Sciences Research Council (EPSRC), industry and government.

Qualifications

- Senior member of IEEE, 1988
- Chartered Engineer (CEng), 1988
- Doctor of Engineering from the University of Tokyo in Optical fibre communications, 1985
- MSc in Microwave Engineering, 1978
- MEng (Hons) in Communication Engineering, 1973

Biography

Hooshang Ghafouri-Shiraz received the MEng and MSc degrees from Shiraz University in 1973 and 1978, respectively, and the Doctor of Engineering (D.Eng.) degree from the University of Tokyo in 1985. From April 1985 to June 1987, he was a Senior Research Fellow in Optoelectronic Development division of Anritsu Corporation in Japan. Since July 1987 he has been a member of the academic staff at the School of Electronic, Electrical and Computer Engineering, University of Birmingham, Birmingham. He is the Head of Postgraduate Ph.D Studies, and has supervised many PhD and MSC students. He has published over 230 journal papers and five books. Also, he has been an active member of technical committees of many conferences as well as a referee for IEEE journals and IEE proceedings. Since 2008 he has been an associate editor for IEEE/OSA journal of Lightwave Technology.

His current research works are on novel codes for optical CDMA, novel optical devices, microwave filters and antennas.

Teaching

- EE3N2, Digital Signal Processing
- EE4V, Optical fibre Communications (OFC)
- MSc course in OFC

Postgraduate supervision

Dr Ghafouri-Shiraz has been supervising PhDs in such areas as:

- Optical communications and devices
- Microwave filters and antennas

Research

- Optical Networks
- Optical CDMA
- Optical Devices (laser diodes, amplifiers and photodetectors)
- Optical fibre communications microwave filter design for applications in wireless communication
- Vital signs monitoring using doppler radar and onbody antennas

Other activities

- Head of Postgraduate PhD studies
- Associate editor of IEEE/OSA journal of Lightwave Technology
- Referees to IEEE and IET Journals

Publications

Research monographs

1. H. Ghafouri-Shiraz and M. M. Karbassian, " Optical CDMA Networks: Principles, Analysis and Applications," John Wiley and Sons, In Press (2012)
2. H. Ghafouri-Shiraz, " The Principles of Semiconductor Laser Diodes and Optical Amplifiers: Analysis and Transmission Line Laser Modelling," Imperial College Press, Jan. 2004
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Book chapter contributions

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2. H. Ghafouri-Shiraz, "Integrated Transmit-Receive Circuit-Antenna Modules for Radio on Fibre Systems," Chapter 10 of "Analysis and Design of Integrated Circuit Antenna Modules, " Editors, K.C. Gupta and P.S. Hall (Wiley, 2000).

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2. A. Tariq and H. Ghafouri-Shiraz," Noncontact heart rate monitoring using doppler radar and continuous wavelet transform," Microwave and Optical Technology Letters, vol. 53, issue 8, pp.1793–1797, May 2011.
3. A. Lalmahomed, M. M. Karbassian and H. Ghafouri-Shiraz, "Performance analysis of enhanced-MPC in incoherent synchronous optical CDMA", J. Lightwave. Technol., Vol.28, No.1, pp. 39-46, Jan. 2010.
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