

## CV

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Research interest: Optical fiber communication systems, Visible Light Communications (VLC),  
LIFI, OCDMA, sensor multiplexing techniques, nanomaterial-based sensors  
and optical fiber gas sensors networks.



### **Publications:**

A Novel Modified Fiber Bragg Grating (FBG) Based Ammonia Sensor Coated with Polyaniline/Graphite Nanofibers Nanocomposites 2020 Optical Fiber Technology, Optical Fiber Technology, 58, 2020.

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320 Gbps Free Space Optic Communication System Deploying Ultra Dense Wavelength Division Multiplexing and Polarization Mode Division Multiplexing, Journal of Optical Communications, 2019.

Ocdma Based Gas Sensor Network Using Modified SMF Coated with Nanomaterials, PhD. thesis, Universiti Putra Malaysia, Malaysia, 2018.

SCADA over Fiber Optic Communications System, International Journal of Electronics Communication and Computer Engineering, Vol.4, No. 2, 2013.

Performance Evaluation and Comparison between LDPC and Turbo Coded MC-CDM", Journal of Engineering, University of Baghdad, Number 4, Volume 18, April 2012.

Design and Implementation of a Network Based on Wavelength Division Multiplexing (WDM), Journal of University of Karbbela, Vol. 9, No. 1 Scientific 2011.

الاتصالات الضوئية الرقمية بين حاسبتين عبر الجو او الالياف البصرية ذهابا و ايابا ,المؤتمر العلمي الثاني - كلية الهندسة جامعة القادسية, 2010.

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Free Space Digital Laser Communication System Based On Microcontroller, ATTI DELLA "FONDAZIONE GIORGIO RONCHI" ANNO LXIII, No. 4, 2008.

2002 Design Considerations of Laser Source in a Ring Network Based on Fiber distributed Data Interface (FDDI).

2001 Conducting a research project entitled “Design and Implementation of a Ring Network Based on Fiber distributed Data Interface (FDDI)” submitted as partial fulfillment for the M.Sc. degree.

## **Books**

Ring Network Based on Fiber Distributed Data Interface (FDDI) Design and Implementation, Lambert Academic Publishing/ Germany, 2014/1/26, 2014

## **Book Chapters**

Polyaniline-graphite Nanocomposite Based Modified Cladding Optical Fiber Gas Sensors in Handbook of Polymer Nanocomposites for Industrial Applications, Elsevier, 2020, (in press).

Modified Single Mode Optical Fiber Ammonia Sensor, in the title “Optical Fiber”, Edited by Dr. Sulaiman Wadi Harun, ISBN 978-1-83962-615-9, InTechOpen, Accepted (in press).

## **Teaching**

2004-upto present Optical Fiber Communication System, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

2002-2004 Laser Principles, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

2003- 2005 Information Theory and Coding, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

2010-2013 Electric Circuits, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

2017-upto present Electronic I, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

2018-2019 Advanced Optical Fiber Communication System, Postgraduate studies, Electronic and Communications Engineering Department / College of Engineering / University of Baghdad.

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2003-2005 Optical Fiber Communication System, Information and Communication Engineering Department / Alkharizmi Engineering College / University of Baghdad.

2008-2009 Communication Theory II, Electrical Engineering Department / College of Engineering / Tikrit University.

**Editorial board member**

1. Journal of Electronic & Information Systems.
2. Semiconductor Science and Information Devices.