

CV

RIYADH DAKHIL MANSOOR, B. Sc. M. Sc. PhD. CEng. MIET. SMIEEE.



Address:

**Samawa,
Al-Muthanna,
Iraq.**

<http://orcid.org/0000-0002-6542-0087>
https://www.researchgate.net/profile/Riyadh_Mansoor
<http://www.researcherid.com/rid/E-1810-2015>
r.m.2015@ieee.org
riyadhdmu@mu.edu.iq

Nationality: Iraqi

EDUCATION:

PhD, “Crosstalk and signal integrity in ring resonator based optical add/drop multiplexers for WDM networks”, De Montfort University, Leicester, UK, Oct. 2015. Supervisor: Prof. [Alistair Duffy](#) (CEng, FIET, IEEE fellow). Examiners: Prof. Trevor Benson (FIET, SMIEEE, FEng.) and Prof. Raouf Hamzaoui.

M. Sc. “ A study on Siliton-based Optical communication systems”, University of Basra/ Iraq, Nov., 1998. Supervisor: Prof. Raad Sami Fyath.

B. Eng. Electrical and Electronic Engineering from the University of Basra/ Iraq, June 1996.

EMPLOYMENT HISTORY:

- I joined the [Iraqi Engineers union](#) on the 23rd of July 1996.
- **2001-2011 Ministry of Industry/ Iraq.**
- **01/07/2011** I received a scholarship which was sponsored by the Iraqi government to complete my PhD study at the UK. I am still employed the ministry of industry.
- **01/11/2012---Part time teaching at DeMont fort University, Leicester, UK.**
- **23/5/2017 lecturer at Al Muthanna University, Iraq**

- 1/8/2017 director of the studies and planning department at Al Muthanna University, Iraq.

SKILLS:

1. COMPUTING: Power point, Excel, CST MWS and Matlab.
2. LANGUAGE: Arabic and English.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS AND SOCIETIES

MIET.

Senior Member IEEE.

OSA Member.

MEMBERSHIP TO EXTERNAL COMMITTEES

Reviewer with the International Journal of Numerical modelling: Electronic networks, Devices and Fields.

Reviewer with the IEEE transaction on Electromagnetics.

Reviewer with Sensors (<http://www.mdpi.com/journal/sensors>)

AWARDS:

Doctoral Thesis Prize for the best research in the Faculty of Technology, De Montfort University, Leicester, UK, 2016.

STATEMENT OF TEACHING

I like to have an interactive classroom, whether that interaction is between me and the students, or between the students themselves. I believe that lecturing should not be a one-way communication system. It should be more of a dialogue between instructor and student. I think it is important that the students are constantly a part of the process of their own learning; they need to be thinking, they need to be talking about what they are thinking. That is why I try to make my classroom an environment where all the students feel safe to venture a response, or make a comment, or ask a question, no matter how stupid or trivial or wrong it sounds to me or any of the other students. While I lecture I am constantly posing questions to the students, and the intention is that they respond to those questions, or at the very least think deeply about them.

STATEMENT OF RESEARCH GOALS AND EXPECTATIONS

Now that I have successfully defended my dissertation “Crosstalk and signal integrity in ring resonator optical add drop multiplexers for wavelength division multiplexing networks”, I am starting the next phase of my research, specifically, experimental studies through a good collaboration with the University of Southampton to propose a project under the EPSRC (Engineer and Physics science research council) funding. The proposed project focuses on the new applications of silicon photonics.

I’ve already suggested a novel approach to link between two existing societies (optical/photonic and EMC) to study what it seem an interesting Optical EMC discipline. I established a very good collaboration through my research with Prof. Slawomir Koziel from Reykjavik University and also Prof. Melloni from the Politecnico di Milano/ Italy to validate my results.

PUBLICATIONS AND OUTPUTS

1. *Journal papers*

1. Mansoor, Riyadh, and Amin Habbab AL-Khursan. "Numerical modelling of surface plasmonic polaritons." *Results in Physics*9 (2018): 1297-1300.
2. Madziga, Miriam, Abdulla Rahil, and Riyadh Mansoor. "Comparison between Three Off-Grid Hybrid Systems (Solar Photovoltaic, Diesel Generator and Battery Storage System) for Electrification for Gwakwani Village, South Africa." *Environments* 5 (2018): 57.
3. R. D. Mansoor, H. Sasse, M. A. Asadi, S. J. Ison and A. Duffy, "Over Coupled Ring Resonator-Based Add/Drop Filters,” *Quantum Electronics, IEEE Journal Of*, vol. 50, pp. 598-604, 2014.
4. R. D. Mansoor, H. Sasse, S. Ison and A. Duffy, "Crosstalk bandwidth of grating-assisted ring resonator add/drop filter," *Optical and Quantum Electronics*, vol.47, no.5, pp.1127-1137, 2015.
5. R. D. Mansoor, S. Koziel, H. Sasse, and A. Duffy, “Crosstalk Suppression Bandwidth Optimization of a Vertically Coupled Ring Resonator Add/Drop Filter,” *IET Optoelectronics*, vol.9, no.2, pp.30-36, April, 2015.
6. R. D. Mansoor, H. Sasse, M. A. Asadi, S. J. Ison and A. Duffy, “Estimation of the Bandwidth of Acceptable Crosstalk of Parallel Coupled Ring Resonator Add/Drop Filters,” *Transactions on EMC, IEEE Journal of*, June, 2015. DOI: 10.1109/TEM.2015.2432914
7. R. D. Mansoor, H. Sasse and A. Duffy, “Optimization of Reflection Coefficient in Ring Resonator Add/Drop Filters”, *International Journal of Numerical Modelling: Electronic Networks, Devices and Field*, 2015. DOI: 10.1002/jnm. 2080.
8. R. D. Mansoor, H. Sasse and A. Duffy, “Modified Crosstalk suppression bandwidth Single Ring Resonator Optical Add/Drop filter”, submitted to *The IEEE Journal of Lightwave Technology*.

2. Conference papers

1. R. D. Mansoor, S. Ison, H. Sasse and A. P. Duffy, "Impact of crosstalk in all optical networks," Proceedings of the 61st IWCS Conference, pp. 849-855, Rhode Island, USA, 2012.
2. R. D. Mansoor, H. Sasse and A. P. Duffy, "Analysis of Optical Ring Resonator Add/Drop Filters," Proceedings of the 62nd IWCS Conference, pp. 471-475, Charlotte, USA, 2013.
3. R. Mansoor, H. Sasse, S. Ison, and A. Duffy, "Modelling of Back Reflection in Optical Ring Resonators," IEEE International Conference on Numerical Electromagnetic Modelling and Optimization for RF, Microwave, and Terahertz Applications (NEMO), Pavia, Italy, 2014.
4. R. Mansoor, H. Sasse, and A. Duffy, "Optimization of Vertically Coupled Add/Drop Ring Resonator Based Filter," Proceedings of the Semiconductor and Integrated OptoElectronics (SIOE) Conference, Cardiff, UK, 2014.
5. R. Mansoor, H. Sasse, and A. Duffy, "Modelling of A Roughened Sidewall Ring Resonator Add/drop Filter," Proceedings of the XXII International Workshop on Optical Wave & Waveguide Theory and Numerical Modelling (OWTNM), Nice, France, 2014.
6. R. Mansoor, H. Sasse, and A. Duffy, "Enhancing the depth notch using a rough-walled SOI ring resonator" IEEE Optical Interconnects, San Diego, California, USA, 2015.
7. R. Mansoor, A. Duffy, "Review of Progress in Optical Ring Resonators with Crosstalk Modelling in OADMS" the 64th IWCS conference, Atlanta, USA, 2015.
8. R. Mansoor, M. Al-Asadi, and A. Duffy, "Optical Ring Resonator Add/Drop Filters", Derby Electrical and Electronic Research Showcase (DEERS), Derby, UK, 2015.