

# Curriculum Vitae



**Position** *Associated Professor in Communication Engineering*

## **Personal Details**

Name Lway Faisal Abdulrazak  
Address Sulaimanyia - Iraq.  
Date of birth 21 - May – 1982  
Languages English - Arabic  
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Google Scholar **Citation=1400, H-index=22, I-index=42**  
Research Gate Score = 35  
**Total Journals I F >100**

## **Academic Qualification:**

### **Highest Education**

2007-2011 PhD Degree in Electrical and Computer Engineering.  
Research title Coexistence of IMT-Advanced System with Fixed Satellite Services Receiver In 3400-4200MHz Frequency Band  
University University of Technology Malaysia, Johor State, Malaysia  
Medium of research English

### **Second Highest Education**

2005-2007 Master's Degree in (Electrical-Electronics & Telecommunication).  
Project title Development of Low Profile Uni-Directional Antenna for WLAN Applications  
University University of Technology Malaysia, Johor State, Malaysia  
Grade 3.54 out of 4  
Medium of research English

### **Third Highest Education**

2000-2005 Bachelor's Degree in (Telecommunication & Electronics Engineering)  
Major Field in Electrical-Telecommunication Engineering  
Project title A Security of Digital Communication System  
University University of Omar AlMukhtar , Al-Bieda , Libya  
Grade (76.1%) with second honor  
Medium of research English

## **Academic Working Experience:**

### **• Teaching the following subjects for BSc, MSc and PhD levels:**

1. Logic Design (Principle & Advanced)
2. Analog & Digital Electronics Design
3. Microprocessor & Assembly Language.
4. Modern Mobile Communications.
5. Numerical Analysis with Matlab Programming.
6. Research Methodology.
7. Networking & Advanced Networking.
8. Satellite Communications
9. Digital Signal Processing.
10. Mobile Communication Networks.
11. Statistics & Probability
12. Mathematics & Adv. Mathematics.

- **Researches Supervision:**

1. "GSM Base station to Base Station Interference Mitigation Techniques" Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
2. "Fraud Protection of Debit Card System" Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
3. "Third Generation Wireless Modeling in Urban Environment" Electrical Eng. Dep. – Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
4. "Simulate a 4th generating wireless network using Wimax Technology" Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
5. "Design the Amount of Error Due to Free Space Loss Model Used by Telecommunication Companies In Iraq" Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
6. "Enterprise Network Design in CISCO Packet Tracer", Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
7. "Network Design Proposal for a University" Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
8. "Medium Scale Organization Network Design and simulation Using VOIP", Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
9. "Application of Static NAT in Securing Companies Networks", Electrical Eng. Dep. – Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
10. "Programmable Smart Home", Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
11. "Designing a VLSM Addressing and implement it in Packet tracer Environment", Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.
12. "Internet of Everything over an Internet Service Provider Connected with Mobil (4G) Client", Electrical Eng. Dep. –Faculty of Engineering, Sulaimaniya University/ Sulaimaniya- Iraq.

- **Lecturer Assistant:**

1. 2005-2006: Digital Electronic Lab. / Undergraduate / Universiti Teknologi Malaysia.
2. 2006-2007: Electronic Circuits lab. / Undergraduate / Universiti Teknologi Malaysia.
3. 2007-2010: Wireless Com. / Post. Gad. Students/Universiti Teknologi Malaysia.
4. 2007-2010: Satellite Com. / Post. Gad. Students/Universiti Teknologi Malaysia.
5. 2010-2011: Digital Com. Lab. /Undergraduate /Universiti Teknologi Malaysia.

- **Researcher under Research student grant:**

Project title & duration: "Immerging wireless Technology, spectrum needs for IMT-Advanced in Malaysia", from July 2007 to October 2009. Universiti Teknologi Malaysia. Sponsor: Malaysian Communication and Multimedia Commission (MCMC). **(Funded Project with a Grant of Amount of 608000 RM or 185000USD). Vot. No:22312.**

- **Post Research Assistant under Working Student Scheme:**

Project title & duration: "Study the possibilities of High Altitude Platform Station Gateway Links deployment in the Range 5850-7075MHz for Malaysia", from October 2009 to December 2010. Universiti Teknologi Malaysia. Sponsor: Malaysian Communication and Multimedia Commission (MCMC). **(Funded Project with a Grant of Amount of 169000 RM or 51000USD). Vot. No:73742.**

### **Administrative Experience:**

- **September 2020 Till now** Director of Quality Assurance
- **September 2018 Till now** Director of University Ranking unit
- **July 2016 Till now** Director of Cihan Scientific Journal
- **December 2011 Till 2016** Member of Examination Committee

- *May 2016 Till 2017* Head of Library Developing Committee
- *May 2016 Till 2017* Director of E-Learning Committee.
- *July 2015- August 2016* University General Registrar.
- *September 2015- May 2016* Member of University Board.
- *September 2015- May 2016* Head of Computer Science Department.
- *December 2013 till 2015* Link Tutor of Computer Science Department.
- *August 2013 till August 2014* Link Tutor of BIT Program Greenwich Uni –UK.
- *September 2011-Till December 2015* Director of Health and safety Committee.
- *December 2011 Till August 3013* University Website Administrator.
- *For two years: 2011 & 2012* Coordinator of University Admission Test.

### **Technical Reports:**

- Emerging Wireless Technology (*Spectrum Needs* for IMT-Advances Malaysia), 2012.

### **Book Publication:**

**1-Lway Faisal Abdulrazak, "Coexistence of IMT-Advanced Systems for Spectrum Sharing with FSS Receivers in C-Band and Extended C Band", Springer Publications, ISBN:ISBN 978-3-319-70587-3, January, 2018.**

### **Chapters in a book publication**

1. **Lway Faisal Abdulrazak**, Kusay Faisal Al-Tabatabaie, and Tharek Abd. Rahman "Utilize 3300-3400 MHz Band for Fixed Wireless Access". Book "Advanced Technologies", Chapter 17. INTECH publications. ISBN 978-953-307-017-9. Pp.291-301.
2. Zaid A. Shamsan, **Lway F.** and Tharek Abd Rahman, "Co-sited and Non Co-sited Coexistence Analysis between IMT-Advanced and FWA Systems in Adjacent Frequency Band" in New Aspects Of Telecommunications And Informatics, Published by WSEAS Press 2008, pp. 44-48. ISBN: 978-960-6766-64-0, ISSN: 1790-5117.
3. Zaid A. Shamsan, **Lway Faisal** and Tharek Abd. Rahman, "Transmit Spectrum Mask for Coexistence between Future WiMAX and Existing FWA Systems, Recent Advances In Systems Engineering And Applied Mathematics, Published by WSEAS Press 2008, pp. 76-83. ISBN: 978-960-6766-91-6, ISSN 1790-2769.
4. **Lway Faisal Abdulrazak**, Tharek Abd. Rahman "Radial Waveguide Slot Array Antenna Design and Implementation for WLAN Applications". Chapter 8, Penerbit UTM, 2009. (ISBN 978-983-52-0640-5).
5. Ali K. Aswad, **Lway Faisal Abdulrazak**, Tharek Abd. Rahman "Develop a High-Gain Circularly Polarized Patch Antenna". Chapter 6, Penerbit UTM, 2009. ISBN 978-983-52-0640-5.
6. Md.Rafi Ul Islam, **Lway Faisal Abdulrazak**, Tharek Abd. Rahman "Novel Design of Multi Layer Radial Line Slot Array Antenna Using FR-4 Substrate". Chapter 7, Penerbit UTM, 2009. (ISBN 978-983-52-0640-5).

### **International Journal publications**

### **Impact Factor Journals:**

1. Ahmed A. Al-Dulaimi, W.D. Wanrosli, **Lway Faisal Abdulrazak**, Rohaizu Roslan, M. Husham, "Preparation of Nanocomposite Polypyrrole/Cellulose Nanocrystals for Conductive Paper", Nordic Pulp and Paper Research Journal Volume 33, No 2. PP309-316 July 2018. **Impact Factor 0.775.**

2. M. Saifur Rahman, Shaikh Sumit Noor, M.S. Anower, **Lway Faisal Abdulrazak** "Design and numerical analysis of a graphene-coated fiber-optic SPR biosensor using tungsten disulfide" *Photonics and Nanostructures - Fundamentals and Applications* Vol.33. PP 29-35, February 2019. **Impact Factor 2.423.**
3. M. Saifur Rahman, Md. Shamim Anower, **Lway Faisal Abdulrazak**, Md. Maksudur Rahman, "Modeling of a fiber-optic surface plasmon resonance biosensor employing phosphorene for sensing applications", *Optical Engineering*, 58(3), 037103 (2019). March 2019. **Impact Factor 1.082.**
4. Md. Biplob Hossain, Tarik Bin Abdul Akib, **Lway Faisal Abdulrazak**, and Md. Masud Ranad. "Numerical modeling of graphene-coated fiber optic surface plasmon resonance biosensor for BRCA1 and BRCA2 genetic breast cancer detection", *Optical Engineering* 58(3), 037104 (March 2019). **Impact Factor 1.082.**
5. Md. Biplob Hossain, Md. Masud Rana, **Lway Faisal Abdulrazak**, Saikat Mitra, "Graphene-MoS<sub>2</sub> with TiO<sub>2</sub>-SiO<sub>2</sub> Layers Based Surface Plasmon Resonance Biosensor: Numerical Development for Formalin Detection", *Biochemistry and Biophysics Reports*, Volume 18, 100639, July 2019, **Impact Factor 1.65.**
6. Md. Ahasan Habib, Md. Selim Reza, **Lway Faisal Abdulrazak**, Md. Shamim Anower, "Extremely high birefringent and low loss microstructure optical waveguide: Design and analysis", *Optics Communications*, Volume 446, Pp, 93–99, September 2019. **Impact Factor 2.125.**
7. Md. Biplob HOSSAIN, Md. Muztahidul ISLAM, **Lway Faisal ABDULRAZAK**, And Md. Masud RANA" Graphene-Coated Optical Fiber SPR Biosensor for BRCA1 and BRCA2 Breast Cancer Biomarker Detection: a Numerical Design-Based Analysis" *Photonic Sensors* (2019), pp 1–13. **Impact Factor 2.073.**
8. M. Saifur Rahman, M. Shamim Anower, **Lway Faisal Abdulrazak**, "Utilization of a Phosphorene-Graphene/TMDC Heterostructure in a Surface Plasmon Resonance-Based Fiber Optic Biosensor", *Photonics and Nanostructures-Fundamentals and Applications*, 35 ( 100711), 2019. **IF= 2.453.**
9. Md. AhasanHabib, Md. ShamimAnower, **Lway FaisalAbdulrazak**, Md. SelimReza, "Hollow core photonic crystal fiber for chemical identification in terahertz regime", *Optical Fiber Technology*, Volume 52, November 2019, 101933. **IF=2.212.**
10. Md. Biplob Hossain, Md. Masud Rana, **Lway Faisal Abdulrazak**, Saikat Mitra Mostafizur Rahman, "Design and analysis of graphene–MoS<sub>2</sub> hybrid layer based SPR biosensor with TiO<sub>2</sub>–SiO<sub>2</sub> nano film for formalin detection: numerical approach", *Optical and Quantum Electronics*, June 2019, 51:195. **IF=1.842.**
11. Amjad Iqbal , Amor Smida ,**Lway Faisal Abdulrazak**, " Low-Profile Frequency Reconfigurable Antenna for Heterogeneous Wireless Systems", *MDPI Electronics*, August 2019, PP.976. **IF=2.412.**
12. M. Saifur Rahmana, Md. Shamim Anower, **Lway Faisal Abdulrazak**, "Modeling of a fiber optic SPR biosensor employing Tin Selenide (SnSe) allotropes" *Results in Physics*, 15 (2019) 102623. **IF=4.019.**
13. Md. Biplob HOSSAIN, Tamanna TASNIM, **Lway F. Abdulrazak**, "A Numerical Approach to Design the Kretschmann Configuration Based Refractive Index Graphene-MoS<sub>2</sub> Hybrid Layers

With TiO<sub>2</sub>-SiO<sub>2</sub> Nano for Formalin Detection", *PHOTONIC SENSORS* ,16 September 2019, PP: 1-13, **IF=2.073**.

14. Bikash Kumar Paul, Touhid Bhuiyan, **Lway Faisal Abdulrazak** "Extremely low loss optical waveguide for terahertz pulse guidance", *Results in Physics* 15 (2019) 102666, **IF=4.019**.

15. Mujeeb Abdullah, Saad Hassan Kiani, Lway Faisal Abdulrazak, Amjad Iqbal, "High-Performance Multiple-Input Multiple-Output Antenna System For 5G Mobile Terminals", *Electronics* 2019, 8, 1090; doi:10.3390/electronics8101090. **IF=2.412**.

16. Md. Biplob Hossaina, Ibrahim Mustafa Mehedi, M. Moznuzzamana, **Lway Faisal Abdulrazak**, "High performance refractive index SPR sensor modeling employing graphene tri sheets", *Results in Physics* 15 (2019) 102719, **IF=4.019**.

17. Md Aslam Mollah, S. M. Riazul Islam, Md. Yousufali, **Lway Faisal Abdulrazak**, "Plasmonic Temperature Sensor Using D-shaped Photonic Crystal Fiber", *Results in Physics* 16 (2020) 102966, **IF=4.019**.

18. Mr Md Aslam Mollah, S. M. Riazul Islam, Mr Md. Yousufali, **Lway Faisal Abdulrazak**, "High sensitivity hollow core circular shaped PCF surface plasmonic biosensor employing silver coat: A numerical design and analysis with external sensing approach", *Results in Physics* 16 (2020) 102909. **IF=4.019**.

19. Amjad Iqbal, Marwa Ammar Selmi, **Lway Faisal Abdulrazak**, "A Compact Substrate Integrated Waveguide Cavity-Backed Self-Triplexing Antenna", *IEEE Transactions on Circuits and Systems II: Express Briefs*. November, 2020, Vol:67, Issue:11. PP:2362-2366, **IF= 2.8**.

20. Md. Nazmus Sakib, S.M. Riazul Islam, T.V. Mahendiran, **Lway Faisal Abdulrazak** "Numerical Study of Circularly Slotted Highly Sensitive Plasmonic Biosensor: A Novel Approach", *Results in Physics* 17 (2020) 103130. **IF=4.019**.

21. M. Saifur Rahman, K.A. Rikta, **Lway Faisal Abdulrazak**, " Enhanced performance of SnSe-Graphene hybrid photonic surface Plasmon refractive sensor for biosensing applications", *Photonics and Nanostructures - Fundamentals and Applications*, 39 (2020) 100779. **IF=1.957**.

22. MB Hossain, TV Mahendiran, **Lway Faisal Abdulrazak**, "Numerical analysis of gold coating based quasi D-shape dual core PCF SPR sensor", *Optical and Quantum Electronics* 52 (10), 1-13. **IF=1.842**.

23. Md. Biplob Hossain, **Lway Faisal Abdulrazak**, "Numerical modeling of MoS<sub>2</sub>-graphene bilayer-based high-performance surface plasmon resonance sensor: structure optimization for DNA hybridization", *Optical Engineering*, Vol. 59(10). **IF=1.1**.

24. Sourav Roy, Md Rahman, Md Islam, **Lway Faisal Abdulrazak** "Numerical Investigation into Optoelectronic Performance of InGaN Blue Laser in Polar, Non-Polar and Semipolar Crystal Orientation" *Crystals* 2020, 10(11), 1033. **IF=2.404**.

25. Biplob Hossain, **Lway Faisal Abdulrazak**, "Hybrid structure based high performance SPR sensor: a numerical approach of structure optimization for DNA hybridization" *Optical and Quantum Electronics*, 2021, 53(1), PP:1-19. **IF=1.842**.

## **Scopus Journals:**

1. **Lway F. Abdulrazak**, Zaid A. Shamsan, Ali K. Aswad, and Tharek Abd. Rahman," Introduce the FWA in the Band 3300-3400 MHz", in Proceedings of World Academy of Science, International Journal of Engineering and Technology (WASET), Volume 36, pp. 176-179, December 2008, ISSN 2070-3740. Thailand. **Scopus**.
2. Zaid A. Shamasn, **Lway Faisal** and Tharek Abd. Rahman. "On Coexistence and Spectrum Sharing between IMT-Advanced and Existing Fixed Systems". International Journal Publication in WSEAS TRANSACTIONS on COMMUNICATIONS, ISSN: 1109-2742, Issue 5, Volume 7, May 2008, pp505-515. **Scopus**.
3. Zaid A. Shamasn, **Lway Faisal**, S. K. Syed-Yusof, Tharek Abd. Rahman. "Spectrum Emission Mask for Coexistence between Future WiMAX and Existing Fixed Wireless Access Systems". International Journal Publication in WSEAS Transactions on COMMUNICATIONS, ISSN: 1109-2742, Issue 6, Volume 7, June 2008, PP627-636. **Scopus**.
4. **Lway Faisal Abdulrazak**, Arshed A. Odah. " Tractable Technique to Evaluate the Terrestrial to Satellite Interference in the C-Band Range". International Journal of Theoretical and Applied Information Technology, PP 762-769 - Vol. 65 No.3. - 31st July 2014. **Scopus**.
5. Kusay F. Al-tabatabaie, **lway F. Abdulrazak** "Optimum Terrestrial KA Microwave Link for Malaysia Based on Rain Distribution Profile Extracted From Radar Data" International Journal of Theoretical and Applied Information Technology, PP 106-110 - Vol. 72 No.1. – 15 Feb, 2015. **Scopus**.
6. **Lway Faisal Abdulrazak** and Arshed A. O. " Interference Mitigation Technique through Shielding and Antenna Discrimination". International Journal of Multimedia and Ubiquitous Engineering. Vol. 10, No. 3 (2015), pp. 343-352. **Scopus**.
7. FL Malallah, ZA Aljawaryy, BT Sharef, A Khmag, **Lway Faisal A. Razak**, "Irreversible Biometric Template Protection by Trigonometric Function", International Review on Computers and Software (IRECOS) 11 (12), PP: 1138-1146, 2016. **Scopus**.
8. **Lway Faisal Abdulrazak**, "Integrated Outdoor Radial Line Antenna with Indoor Circularly Polarized Patch Antenna in One Backhaul Network System", Advanced Information Sciences and Service Sciences(AISS), Volume8, Number5,PP:1-8, Dec. 2016. **Scopus**.
9. A. Hameed, **Lway F. Abdulrazak**, Zaid A. Aljawary and Fahad L. Malallah, " Link-To-System MIMO Interference Analysis for LTE Coexistence in 2.6 GHz Frequency Band International conferences", International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 12, Number 15 (2017), pp. 5226-5233. **Scopus**.
10. **Lway Faisal Abdulrazak**, " The Effect of Platform Instability on the User Terminal and Backhaul Link Performance of HAPS-UMTS", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 16 (2017) pp. 5952-5960. **Scopus**.
11. Nidaa H. Abbas, Khaled N. Yasen, Kamaran H. , **Lway Faisal A.Razak**, Fahad Layth "Offline Handwritten Signature Recognition Using Histogram Orientation Gradient and Support Vector machine" Journal of Theoretical and Applied Information Technology, Vol.96. No 8, PP 2075-2084, April 2018. **Scopus**.
12. Ahmed A. Al-Dulaimi, S. Hashim, **Lway Faisal Abdulrazak**, M. Husham "Electrical conductive polyaniline in various nanostructures for corrosion inhibition of carbon steel", Journal of Mechanical Engineering and Sciences, Volume 12, Issue 2, pp. 3738-3749, June 2018. **Scopus Q2 site score 1.8**.
13. **lway Faisal Abdulrazak**, Fahad Layth Malallah, " Layout an Inexpensive Elliptical Polarized Productive Integrated Transceiver" Journal of Theoretical and Applied Information Technology, Vol.96. No 23, PP 7671-7683, December 2018. **Scopus**.
14. K. Balan, **L.F.Abdulrazak**, A. S. Khan, A. A. Julaihi, S. Tarmizi, K. S. Pillay, "RSSI and Public Key Infrastructure based Secure Communication in Autonomous Vehicular Networks"

International Journal of Advanced Computer Science and Applications, Vol. 9, No. 12, PP:298- 304, December 2018. **Scopus.**

14. Khaled N. Yasen, Fahad Layth Malallah, **Lway Faisal Abdulrazak**, " Hand detection and segmentation using smart path tracking fingers as features and expert system classifier", International Journal of Electrical and Computer Engineering (IJECE) Vol. 9, No. 6, December 2019, pp. 5277~5285. **Scopus.**

15. **Lway Faisal Abdulrazak**, Kusay Faisal Al-Tabatabaie, "Mapping a new system for outdoor GSM signal strength", Computational Methods for Differential Equations Vol. 7, No. 4 (Special Issue), 2019, pp. 535-544. **Clarivate Analytics.**

16. **Lway Faisal Abdulrazak**, Zaid A. Shamsan and Tharek Abd. Rahman. "Potential Penalty Distance between FSS Receiver and FWA for Malaysia". International Journal Publication in WSEAS Transactions on COMMUNICATIONS, ISSN: 1109-2742, Issue 6, Volume 7, June 2008, pp637-646.

### **Conference Papers:**

1. **Lway Faisal Abdulrazak**, Tharek Abd Rahman, "Review Ongoing Research of Several Countries on the Interference between FSS and BWA", International Conference on Communication Systems and Applications (ICCSA'08), IEEE Preceding 2008 Hong Kong China. **Scopus.**

2. Mohamed R. Islam, **Lway Faisal** and Tharek Abd. Rahman, "simple Integrated Systems for Wireless Backhaul Networks", International Conference on Computer & Communication Engineering (ICCCE '08), Kuala Lumpur, Malaysia, 2008, IEEE Preceding. IEEE catalog Number: CFP0839D, ISBN: 978-1-08-4244-1692-9, PP.570-573. PP 341-345. **Scopus.**

3. **Lway Faisal Abdulrazak** and Tharek Abd. Rahman, "Uni-Omnidirectional Radial Waveguide Slot Array Antenna Design for Wireless Local Area Network", ASIA-PACIFIC EMC Week, 2008, Singapore. IEEE catalog Number: 08EX2004C, ISBN: 978-981-08-0629-3, PP.570-573. **Scopus.**

4. Zaid A. Shamsan, **Lway Faisal**, Tharek Abd Rahman,"On Coexistence and Spectrum Sharing Analysis between IMT-Advanced and FWA Systems", WSEAS Transaction on Communication, Vol. 7, No. 5, PP. 505-515, May 2008. **Scopus.**

5. Zaid A. Shamsan, **Lway Faisal Abdulrazak**, and Tharek Abd. Rahman," Co-channel and Adjacent Channel Interference Evaluation for IMT-Advanced Coexistence with Existing Fixed System", in Proceedings of IEEE International RF and Microwave Conference (RFM 2008), pp. 65-69, 2-4 December, 2008, Malaysia. **Scopus.**

6. **Lway Faisal Abdulrazak**, Zaid A. Shamsan, Ali K. Aswad and Tharek Abd. Rahman," Novel Computation of Expecting Interference between FSS and IMT-Advanced for Malaysia" in Proceedings of 2008 IEEE International RF and Microwave Conference (RFM 2008), pp. 367 - 371, 2-4 December, 2008, Malaysia. **Scopus.**

7. Ali K. Aswad, **Lway Faisal Abdulrazak** and Tharek Abd. Rahman,"Design and development of high-gain wideband circularly polarized patch antenna", 2008 IEEE International RF and Microwave Conference (RFM08), Malaysia 2-4<sup>th</sup> December 2008. **Scopus.**

8. **Lway Faisal Abdulrazak**, Ahmad Chahine, Amar E. M Al Aradi, Zakaria Hanzaz, "Secure Digital Communication System", International Graduate conference on Engineering and science (IGCES 2008), IEEE Preceding, Malaysia 23-24 December 2008. **Scopus.**

9. Zaid A., **Lway F. Abdulrazak**, Tharek Abd. Rahman "On the Impact of Channel Bandwidths and Deployment Areas Clutter Loss on Spectrum Sharing of Next Wireless Systems", International Conference on Electronic Design (ICED08), IEEE Preceding, Malaysia 1-3 December 2008. **Scopus.**

10. Zaid A. Shamsan, Alaa E. Basheer, Waiel E. Osman, **Lway F. Abdulrazak**, Tharek Abd. Rahman" On the Impact of Channel Bandwidths and Different Deployment Areas on Spectrum

Sharing of Next Wireless Systems”, in Proceedings of IEEE International ICED2008 Conference, pp. 1-5, 1–3 Dec., 2008, Malaysia. **Scopus.**

11. Shamsan Zaid A., **Faisal L.** and Rahman Tharek A. (2008). Compatibility and Coexistence between IMT-Advanced and Fixed Systems, in Proceedings of the 4th IEEE International Conference and Information Technology and Multimedia at UNITEN (ICIMU’ 2008), 17–19 November, Malaysia. **Scopus.**
12. **Lway Faisal Abdulrazak**, S.K.Abdul Rahim, and Tharek Abd. Rahman. “New Algorithm to Improve the Coexistence between IMT-Advanced Mobile Users and Fixed Satellite Service”. Proceedings of IEEE 2009 International IACSIT Conference on Machine Learning and Computing (IACSIT ICMLC, 2009) Perth, Australia, July 10-12, 2009. **Scopus.**
13. **Lway Faisal Abdulrazak**, Tharek Abd. Rahman, S.K.Abdul Rahim and Marwa Yousif. “Study HAPS Interference Power to Noise Level Ratio of Fixed Services and Related Separation Distance”. 10th International Conference on Information Science, Signal Processing and their Applications (ISSPA 2010). IEEE Preceding, PP: 690-693. **Scopus.**
14. **Lway Faisal Abdulrazak.** "FSS Shielding and Antenna Discrimination Effect on Interference Mitigation Techniques", the EUROPMENT conference, Circuits, Systems, Signal Processing, Communications and Computers 2014. Venice, Italy, 15- 17, March 2014.

### **References:**

- Prof. Dr. Tharek Abd Rahman  
Wireless Communication Center Director,  
Faculty of electrical Engineering, Universiti Teknologi Malaysia (UTM),  
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