

## Curriculum Vitae

### Personal Data:

**Name:** Atallah Balalem  
**Date of Birth:** 15.01.1978  
**Place of Birth:** Nablus, Palestine  
**Marital Status:** Married  
**Address:** Palestine Technical University  
Tulkarm, Palestine  
**E-mail:** [atallahb@yahoo.com](mailto:atallahb@yahoo.com)  
**Mobile:** +972-594255019



### Education:

06.2005 - 03-2010 University of Magdeburg  
Ph.D. in Microwave Engineering  
Ph.D. Thesis Title: **Analysis, Design, Optimization and Realization of Compact High Performance Printed RF Filters**

03.2001 – 02.2005 University of Ulm, Germany  
M.Sc. in Communications Technology  
Master Thesis Title: **Investigation of Planar Filters and Diplexers**

10.1996 – 06.2000 An-najah National University, Nablus, Palestine  
B.Sc. in Physics – Minor Electronics

10.1993 – 06.1996 Qadri Tukan Secondary School, Nablus, Palestine

### Professional Experience:

09.2012-Now Assistant Professor (Full Time Position)  
Faculty of Information Technology and Communication Engineering  
Palestine Technical University Tulkarm, Palestine

09.2010- 09.2012 Assistant Professor (Part Time Position)  
Faculty of Science /Electronic Department  
An-Najah N. University ,Nablus, Palestine

03.2011-08.2012 Assistant Professor (Part Time Position)  
Faculty of Information Technology and Communication Engineering  
Arab American University, Jenin, Palestine

09.2010-06.2012 Assistant Professor (Part Time Position)  
Faculty of Information Technology and Communication  
Al-Quds Open University, Nablus, Palestine

06.2005 – 03.2010 Planar filter design  
Chair of Microwave and Communications Engineering  
University of Magdeburg, Germany

- 02.2007- 07.2007      Invited research assistant at the “Czech Technical University”  
Prague, Czech Republic
- 01.2004 – 03.2005      Testing and integrating mobile phone software on various platforms  
LogicaCMG Ulm, Germany
- 02.2003 – 08.2003      Thermal analysis with differential scanning calorimeter (DSC)  
Dept. of Advanced Materials  
University of Ulm, Germany
- 09.2000 – 03.2001      Assistant lecturers for Maths and Physics  
Der Sharaf Secondary School, Nablus, Palestine

**Taught Courses :**

- Optical Fiber Systems
- Fundamentals in Communications
- Microwave Engineering
- Antenna Theory and design
- Analogue Electronics
- Electromagnetic Theory
- Electromagnetic Waves
- Electromagnetic Compatibility
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**Computer Skills:**

Experienced with:

- Sonnet
- ADS
- CST
- MATLAB
- Microwave Office

**Main Interest Fields:**

- Microwave circuits and filters
- Antenna design
- Other topics related to RF and microwave components and systems

**Memberships:**

- Editorial Board Member of IEEE Microwave and Wireless Components Letters
- Editorial Board Member of IET Microwave, Antenna & Propagation
- Editorial Board Member of Journal of Electromagnetic Waves and Applications

**Language Skills:**

Fluent in written and spoken Arabic and English.  
Rapidly improving in written and spoken German.

## References :

1. Prof. Dr. Wolfgang Menzel, Department of Microwave Engineering, University of Ulm, Germany, E-mail: [wolfgang.menzel@uni-ulm.de](mailto:wolfgang.menzel@uni-ulm.de).
2. Prof. Dr. Jan Machac, Faculty of Electrical Engineering, Czech Technical University, Prague, Czech Republic, E-mail: [Machac@fel.cvut.cz](mailto:Machac@fel.cvut.cz)
3. Dr. Iyad Saad Aldin, department of Physics, An-Najah N. University, Nablus, Palestine, [E-Mailiyadl2002@yahoo.com](mailto:E-Mailiyadl2002@yahoo.com)
4. Dr. Mohammed Hamarsheh, Arab American University, Department of Communications Engineering, Jenin, Palestine, E-Mail [MMHamarsheh@aauj.edu](mailto:MMHamarsheh@aauj.edu)

## Publications:

### Book Chapter

1. Anatoliy Batmanov, Ahmed Boutejdar, **Atallah Balalem**, Abbas Omar, Edmund P. Burte, "New coplanar low-pass defected ground structure (DGS) filter," *Ultra-wideband, short-pulse electromagnetics 9* . - New York, NY : Springer, ISBN 978-0-387-77844-0, S. 175-184, 2010

### Journal Papers

1. Fawzy Abujarad, Atallah Balalem, "High Resolution Techniques for Direction of Arrival Estimation of GPR Signals," *Journal of Multidisciplinary Engineering Science and Technology*, Vol. 4, issue 1, pp. 6473-6478, January, 2017.
2. **Atallah Balalem**, Surouq Ahmed, Dalya Hassounah, Raghda Iraqi, Loqman As-Sayid Ahmed, Fawzy Abujarad, "A Method to Distinguish Between Different Fruits by Measuring the Magnitude of the Transmission Coefficient," *International Journal of Modern Engineering Research*, Vol. 6, Issue 11, pp.51-54, November, 2016.
3. Anand. K. Verma, Adel. Abdel-Rahman, A. Kumar, N. P. Chauhri, **Atallah Balalem**, Abbas Omar, "New compact dual-band bandstop filter" *International Journal of Electronics*, Vol. 100, Issue 4, April, 2013.
4. **Atallah Balalem**, Jan Machac, Abbas Omar, "Dual-Band Bandpass Filter Using the Microstrip Square-Loop Dual-Mode Resonator," *Microwave and Optical Technology Letters*, Vol. 50, No. 6, pp.1567-1570, June, 2008.
5. **Atallah Balalem**, Wang Kim-Fai, Jan Machac, Abbas Omar, "Low-loss Doubly Metallized CPW Low-Pass Filters with Additional Transmission Zeroes," *Microwave and Optical Technology Letters*, Vol. 50, No. 5, pp. 1431-1433, May, 2008.
6. **Atallah Balalem**, Wolfgang Menzel, Jan Machac, and Abbas Omar, "A Simple Ultra-Wideband Suspended Stripline Bandpass Filter with Very Wide Stop-band," *IEEE Microwave and wireless components letters*, Vol. 18, No. 3, pp. 170-172, March, 2008.

7. **Atallah Balalem**, Jan Machac, Abbas Omar, "Microstrip-CPW Bandpass Filter for Antenna Application," *Microwave and Optical Technology Letters*, Vol. 50, No. 1, January 2008, pp. 51-55.
8. **Atallah Balalem**, Ali R. Ali, Jan Machac, Abbas Omar, "Quasi-Elliptic Microstrip Low-Pass Filters Using an Interdigital DGS Slot," *IEEE Microwave and wireless components letters*, Vol. 17, No. 8, August 2007, pp. 586-588.
9. Wolfgang Menzel, **Atallah Balalem**, "Quasi-Lumped Suspended Stripline Filters and Diplexers," *IEEE Transaction on Microwave Theory and Techniques*, vol.53, no. 10, pp. 3230- 3237, October 2005.

### Conference Papers

10. **A. Balalem**, M. Abu Khmish, Z. Baidas, and O. Sabi, "Suspended Stripline Bandpass Filter with Very Wide Stop-band," in *Progress in Electromagnetic Research Symposium (PIERS 2014)*, Guangzhou, China, Aug. 2014.
11. Adel Abel-Rahman, **Atallah Balalem**, Jan Machac and Abbas Omar, "UWB Bandpass Filter with Wide Stopband Using Lumped Coupling Capacitors," *Asian Pacific Microwave Conf. 2009 APMC 2009*, Singapore, December 2009.
12. **Atallah Balalem**, Ali R. Ali, Smain Amari, Jan Machac, and Abbas Omar, "Realization of a Planar Triple-Mode Resonator Using a Square-Loop Resonator," *2009 IEEE MTT-S*, Boston, USA, pp.849-852, June 2009.
13. **Atallah Balalem**, Jan Machac, Abbas Omar, "Inverted Defected Ground Structure for Microstrip Lines Filters Reducing Packaging Complexity," *Proc. Asian Pacific Microwave Conf. (APMC) 2008*, China, Hong Kong, December 2008.
14. Ali R. Ali, **Atallah Balalem**, Tareq J. Khanzada, Jan Machac, Abbas Omar, "Adaptive Pilot Distrution for OFDM Systems in Time-Variant Channels," *Proc. Asian Pacific Microwave Conf. (APMC) 2008*, China, Hong Kong, December 2008.
15. Ali R. Ali, **Atallah Balalem**, Tareq Khanzada, Jan Machac, Abbas Omar, "Doppler spread estimation for OFDM system using Newton polynomials," *Proceedings of 18<sup>th</sup> International conference Radioelectronica 2008*, Prague, Czech Republic, April 2008.
16. **Atallah Balalem**, Ali R. Ali, Jan Machac, Abbas Omar, "Compact Bandstop Filters Using an Interdigital DGS Structure," *Proceedings of 14<sup>th</sup> Microwave Techniques COMITE 2008*, Prague, Czech Republic, pp. 175-178, April 2008.
17. Ahmad Boutejdar, Adel Elsherbini, **Atallah Balalem**, Jan Machac and Abbas. Omar, "Design of New Hairpin Microstrip Bandpass Filter Using Coupling Matrix Method and Defected Ground Structure (DGS)," *Progress in Electromagnetic Research Symposium 2007(PERS)*, Prague, Czech Republic, August 2007, pp. 261-265.
18. **Atallah Balalem**, Jan Machac, Abbas Omar, "Quasi-Lumped bandpass filters using Doubly Metallized Lines," *Proceedings of 17<sup>th</sup> International conference Radioelectronica 2007*, Berno, Czech Republic, April 2007.

19. Mohammed Awida, **Atallah Balalem**, Amr Safwat, Hadia El- Hinnawy, Abbas S. Omar, “Combined lowpass Bandpass Filter Response Using Different Shapes of Microstrip Dual-Mode Response,” *European Microwave Association EuMA*, Vol. 2, Issue 4, pp. 326-332, Dec. 2006.
20. **Atallah Balalem**, Wolfgang Menzel, Abbas Omar, “Quasi- Lumped- Open-Loop Suspended Stripline Bandpass Filters,” *European Microwave Conf. 2006*, Sept. 2006, Manchester, UK, pp. 568 – 571.
21. **Atallah Balalem**, Ehab K. I. Hamad, Jan Machac, Abbas S. Omar, “Bandpass Filters on a Modified Multilayer Coplanar Line,” *2006 IEEE MTT-S Int. Microwave symp. Digest*, San Francisco, USA, June, 2006, pp 531 - 534.
22. Mohammed Awida, **Atallah Balalem**, Amr Safwat, Hadia El- Hinnawy, Abbas S. Omar, “Combined Low-Pass and Bandpass Response Using Microstrip Dual- Mode Resonators,” *2006 IEEE MTT-S Int. Microwave symp. Digest*, San Francisco, USA, June, 2006, pp. 701 – 704.
23. Wolfgang Menzel, **Atallah Balalem**, “Suspended Stripline Bandpass Filters with Inductive and Mixed Coupling,” *German Microwave conference GeMiC2006*, Karlsruhe, Germany, March, 28- 30, 2006.
24. Wolfgang Menzel, **Atallah Balalem**, “Compact Suspended Stripline Quasi-Elliptic Low-Pass Filters,” *German Microwave Conference GeMiC2005*, Ulm, Germany, April 5-7, 2005, pp. 61-64.

Nablus , April.2017