

## Redha M. Radaydeh, PhD

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CONTACT INFORMATION Department of Engineering & Technology  
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CURRENT POSITION Tenure-track Faculty Member Electrical Engineering, Texas A&M University-Commerce, TX.

EDUCATION **University of Mississippi**, Oxford, MS

Ph.D., Electrical Engineering, January 2004 – November 2006

- GPA: 4.0/4.0
- Dissertation Topic: Efficient Receivers and Digital Modulation Techniques for Communications Systems.
- Area of Study: Wireless Communications

**Jordan University of Science and Technology (JUST)**, Irbid, Jordan

M.Sc., Electrical Engineering, October 2001 – August 2003

- Percentage Average: 87.2% [Top 5% of graduates]
- Thesis Topic: Detection and Diversity Combining in Mobile Channels.
- Area of Study: Communications and Electronics

B.Sc., Electrical Engineering (five years program; 162 credit hours), October 1996 – June 2001

- Percentage Average: 80.7% [Top 5% of graduates]
- Area of Study: Communications and Electronics

**Zarnouji Comprehensive Secondary School**, Kufryouba, Irbid, Jordan

The General Secondary Education Certificate Examination, August 1995 – July 1996

- Percentage Average: 93.4%
- Area of Study: Scientific Stream

ACADEMIC  
AND  
RESEARCH  
EXPERIENCE

Texas A&M University-Commerce, TX

*Tenure-Track Faculty Member of Electrical Engineering*  
August 2018 to Present

King Abdullah University of Science and Technology (KAUST),  
Thuwal, KSA

*Remote Research Scientist in Communication Theory Lab*  
*(CTL)* October 2016 to May 2018

Texas A&M University-College Station, TX

*Visiting Researcher* July 2017 to December 2017

Alfaisal University (AU), Riyadh, KSA

*Associate Professor of Electrical Engineering* December  
2014 to August 2016

*Assistant Professor of Electrical Engineering* September  
2012 to November 2014

Texas A&M University-Qatar (TAMUQ), Doha, Qatar

*Associate Research Scientist* January 2012 to September  
2012

King Abdullah University of Science and Technology (KAUST),  
Thuwal, KSA

*Research Fellow and Graduate Research Supervisor* Octo-  
ber 2009 to January 2012

Jordan University of Science and Technology (JUST), Irbid, Jor-  
dan

*Assistant Professor of Electrical Engineering* February  
2007 to September 2009 (officially till February 2010)

*Instructor* October 2003 to January 2004

*Teaching Assistant* October 2001 to June 2003

**University of Mississippi**, Oxford, MS, USA

*Research Assistant*                      **January 2004 to November 2006**

*Graduate Instructor*                      **January 2006 to May 2006**

ACADEMIC  
AWARDS

The University of Mississippi

- Full Research Assistant Scholarship, January 2004 – July 2006.
- Dissertation Fellowship, August 2006 – December 2006.
- Recognized for Academic Excellence.

Jordan University of Science and Technology (JUST)

- Graduate Scholarship, October 2001 – June 2003.
- Full tuition waiver for the undergraduate studies, October 1996 – June 2001.
- Recognized for Academic Excellence.

Alfaisal University

- Faculty Award for Research Excellence, 2015.

RESEARCH  
VISITS

- **University of Oulu**, Oulu, Finland  
October 2010 to November 2010
- **Telecom Paris-tech**, Paris, France  
May 2010 to July 2010
- **King Abdullah University of Science and Technology (KAUST)**,  
Thuwal, KSA  
Summer 2012, Summer 2013, March 2014, July 2014, Jan 2015, July  
2015, June 2016.
- **Texas A&M University at Qatar (TAMUQ)**, Thuwal, KSA  
July-August 2014.

RESEARCH  
GRANTS

KAUST

- Collaboration Travel Fund Grant, February 2010. (\$21,500)

AU

- Internal Research Grant, December 2012. (\$11,467)

QNRN - NPRP

- PI: Power control, Mobility and Interference Management for Under-  
lay D2D Communications in 5G Networks, May 2015. (\$ 890,000.00  
USD)

KACST - NSTIP

- Co-PI: Proposing and Investigating New Scenarios for Advanced Communications Networks Based on Free Space Optical Communications, September 2015. (1,482000.00 SAR).

TEACHING  
INTERESTS

Teaching interests in Electrical/General Engineering fields:

- Basic and Advanced Mathematics. Applied Electromagnetics.
- Linear Algebra. Differential Equations. Intermediate Analysis. Statistics.
- Probability Theory. Random Processes.
- Optimization. Computer Networks.
- Electric Circuits. Electronic Circuits. Power Electronics. Electric Machines.
- Feedback Control Systems.
- Digital Signal Processing.
- Antennas. Wave Propagation. Fiber Optics.
- Communication Systems. Digital Communications. Communication Electronics.
- Wireless Communications. Digital Data Transmission. Wireless Networks.
- Error Control Coding. Information Theory.

COURSES  
TAUGHT

- At Texas A&M University-Commerce, TX
  - ENGR 110 Introduction to Engineering and Tech. (Fall 2018)
  - EE 320 Electronics I (Fall 2018, Fall 2019)
  - EE 321 Electronics II (Spring 2019)
  - EE 340 Electromagnetics (Spring 2019)
  - EE 452 Antennas (Fall 2019)
  - EE 454 Power Electronics (Fall 2019)
- At Alfaisal University
  - EE 202: Introduction to Electronics (Spring 2014, 2015, 2016)
  - EE 309: Applied Electromagnetics (Fall 2012, 2013, 2014, 2015)
  - EE 403: Wireless Communications (Fall 2012)
  - EE 413: Digital Communications (Spring 2013, Fall 2013, 2014, 2015)
  - EE 417: Digital Signal Processing (Spring 2013, 2014, 2015, 2016)
  - EE 422: Antennas and Wave Propagation (Spring 2014, 2015, 2016)
  - EE 490: Capstone Project (Fall/Spring 2012–2013; Fall/Spring 2014–2015, Fall 2015)
- At JUST
  - EE 210: Electric Circuits I
  - EE 310: Electric Circuits II
  - EE 303: Principles of Electrical Engineering

- EE 307: Electromagnetics II
- EE 451: Digital Communications
- EE 452: Communications LAB
- EE 553: Communications Systems
- EE 751: Digital Data Transmission
- EE 781: Wireless Communications
- EE 782: Advanced Wireless Communications

TOPICS OF  
RESEARCH  
INTERESTS

Wireless communication theory. Digital signal processing for communications. Beamforming and diversity techniques. Narrowband and wideband multi-user systems . CDMA and OFDM techniques. Wireless standards. Noncoherent systems. Power adaptation algorithms. Handover algorithms. Cognitive radio. Cooperative networks . Adaptive transmission schemes. Scheduling algorithms. Resource sharing, distribution, and allocation schemes. Interference mitigation and management schemes. MIMO systems. Decentralized wireless networks. Heterogeneous networks. Small-cell networks. Physical-layer security. Free-space optical communications.

OTHER  
TECHNICAL  
SERVICES

- Technical Program Committee (TPC) member in leading IEEE and international conferences, e.g.:
  - IEEE Wireless Communications and Networking Conference (IEEE WCNC 2009-2019)
  - IEEE Global Communications Conference (IEEE Globecom 2009-2019)
  - IEEE International Conference on Communications (IEEE ICC 2011-2019)
  - IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC 2012, 2013 etc.)
  - IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2011, 2012, 2013 etc.)
  - The International Conference on Selected Topics in Mobile and Wireless Networking (iCOST 2011, 2012, 2013 etc.)
  - The International Conference on Telecommunications (ICT 2011, 2012, 2013 etc.)
  - International Workshop on Cyber-Physical Systems and Social Computing (CSSC 2014)
  - IEEE/SAE International Conference on Connected Vehicles & Expo (ICCVE 2013)
  - The International Conference on Innovations in Information Technology (IIT 2013)
  - INFOCOM'2014 Workshop on Mobile Cloud Computing
  - The Asia Pacific Conference on Wireless and Mobile 2014 (AP-WiMob 2014)

- IEEE Mediterranean Electrotechnical Conference (MELECON2014)
- The 2014 International Conference on Internet of Vehicles (IOV 2014)
- International Conference on Computer, Communication, and Control Technology (I4CT 2015)
- International Symposium on Wireless Communication Systems (ISWCS 2015)
- IEEE INFOCOM 2015 Workshop on Mobile Cloud and Virtualization
- International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015)
- International Conference on Computing in Mechanical Engineering (ICCME 2015)
- IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015 (IEEE SPICES 2015)
- Reviewer for several leading IEEE and IET Journals and Transactions, e.g.:
  - IET Communications
  - IEEE Transactions on Communications
  - IEEE Transactions on Wireless Communications
  - IEEE Transactions on Vehicular Technology
  - IEEE Communication Letters
  - IEEE Journal on Selected Areas in Communications - special issues.

## MEMBERSHIP

- Member of Jordan Engineers Association.
- Senior Member of Institute of Electrical and Electronics Engineers (IEEE).
- Member of IEEE Communications Society.
- IEEE Signal Processing for Communications and Electronics Technical Committee (SPCE TC).
- Member of the Honor Society of Phi Kappa Phi.

## PUBLICATIONS

– REFEREED

JOURNAL

PAPERS

- **2019**
  - A. A. Hussain, N. Tayem, A.-H. Soliman, and **R. M. Radaydeh**, “FPGA-Based Hardware Implementation of Computationally Efficient Multi-Source DOA Estimation Algorithms,” *IEEE Access*, vol. 7, pp. 88845–88858, 2019.

- A. Celik, M.-C. Tsai, **R. M. Radaydeh**, F. S. Al-Qahtani, M.-S. Alouini, “Distributed User Clustering and Resource Allocation for Imperfect NOMA in Heterogeneous Networks”, *IEEE Transactions on Communications*- Accepted, available on IEEE Xplore.
- A. Celik, M.-C. Tsai, **R. M. Radaydeh**, F. S. Al-Qahtani, M.-S. Alouini, “Distributed Cluster Formation and Power-Bandwidth Allocation for Imperfect NOMA in DL-HetNets,” *IEEE Transactions on Communications*, no. 2, vol. 67, pp. 1677-1692, 2019.
  
- **2018**
  - Y. H. Al-Badarneh, C. N. Georghiades, **R. M. Radaydeh**, M.-S. Alouini, “On the Secrecy Performance of Generalized User Selection for Interference-Limited Multiuser Wireless Networks,” *IEEE Transactions on Vehicular Technology*, no. 12, vol. 67, pp. 12442–12446, 2018.
  - Y. Zhang, J. Ge, E. Serpedin, **R. M. Radaydeh**, and Y. Hu, “On Cooperative NOMA Relay Selection Under Nakagami-m Fading and Imperfect Channel Estimation” *Transactions on Emerging Telecommunications Technologies*, no. 12, Vol. 29, e3535, Dec. 2018.
  - A. A. AbdelNabi, F. S. Al-Qahtani, **R. M. Radaydeh**, M. Shaqfeh, and H. Alnuweiri, “Hybrid Access Femtocells in Overlaid MIMO Cellular Networks with Transmit Selection under Poisson Field Interference,” *IEEE Transactions on Communications*, no. 1, vol. 66, pp. 163–179, 2018.
  
- **2017**
  - A. Celik, **R. M. Radaydeh**, F. S. Al-Qahtani, and M.-S. Alouini, “Resource Allocation and Interference Management for D2D-Enabled DL/UL Decoupled Het-Nets”, *IEEE Access – Advances in Interference Mitigation Techniques for Device-to-Device Communications*, vol. 5, pp. 22735–22749, 2017.
  - F. S. Al-Qahtani, Y. Huang, S. Hessien, **R. M. Radaydeh**, C. Zhong, and H. Alnuweiri, “Secrecy Analysis of MIMO Wiretap Channels with Low-Complexity Receivers Under Imperfect Channel Estimation,” *IEEE Transactions on Information Forensics & Security*, no. 2, vol. 12, pp. 257–270, 2017.
  - F. S. Al-Qahtani, A. H. Abd El-Malek, I. S. Ansari, **R. M. Radaydeh**, and S. A. Zummo, “Outage Analysis of Mixed Underlay Cognitive RF MIMO and FSO Relaying with Interference Reduction,” *IEEE Photonics Journal*, no. 2, vol. 9, Apr. 2017.
  - F. S. Al-Qahtani, **R. M. Radaydeh**, S. Hassan, T. Q. Duong, and H. Alnuweiri, “Underlay Cognitive Multihop MIMO Networks With and Without Receive Interference Cancellation,” *IEEE Transactions on Communications*, no. 4, vol. 65, pp. 1477–1493, 2017.

- A. H. Abd El-Malek, F. S. Al-Qahtani, **R. M. Radaydeh**, S. A. Zummo, and H. Alnuweiri, “Performance Analysis and Power Allocation for Underlay Cognitive MIMO Relaying Networks with Transmit Antenna Selection Under Antenna Correlation,” *Wireless Personal Communications*, no. 4, vol. 94, pp. 3057–3089, Jun. 2017.
- **2016**
  - A. M. Salhab, F. Al-Qahtani, **R. M. Radaydeh**, S. A. Zummo, and H. Alnuweiri, “Power Allocation and Performance of Multiuser Mixed RF/FSO Relay Networks with Opportunistic Scheduling and Outdated Channel Information,” *IEEE/OSA Journal of Lightwave Technology*, no. 13, vol. 34, pp. 3259–3272, 2016.
  - **R. M. Radaydeh**, F. Gaaloul, and M.-S. Alouini, “Impact of Users Identities and Access Conditions on Downlink Performance in Closed Small-Cell Networks,” *IEEE Transactions on Vehicular Technology*, no. 5, vol. 65, pp. 3200–3216, 2016.
  - **R. M. Radaydeh**, A. Zafar, F. S. Al-Qahtani, and M.-S. Alouini, “Improved Interference-Free Channel Allocation in Coordinated Multiuser Multi-Antenna Open-Access Small Cells,” *IEEE Transactions on Vehicular Technology*, no. 12, vol. 65, pp. 9994–10010, 2016.
- **2015**
  - S. Hassan, F. S. Al-Qahtani, **R. M. Radaydeh**, C. Zhong, and H. Alnuweiri, “On the Secrecy Enhancement in MIMO Generalized Composite Fading with Low-Complexity Large-Scale Transmit Selection,” *IEEE Wireless Communications Letters*, vol. 4, no. 4, pp. 429–432, August 2015.
- **2014**
  - **R. M. Radaydeh**, M.-S. Alouini, and Khalid A Qaraqe, “Adaptive Interference-Aware Multichannel Assignment for Shared Overloaded Small-Cell Access Points Under Limited Feedback,” *IEEE Transactions on Vehicular Technology*, vol. 63, no. 2, pp. 747–762, Feb. 2014.
  - A. Zafar, **R. M. Radaydeh**, Y. Chen, and M.-S. Alouini, “Power Allocation Strategies for Fixed-Gain Half-Duplex Amplify-and-Forward Relaying in Nakagami-m Fading,” *IEEE Transactions on Wireless Communications*, vol. 13, no. 1, pp. 159–173, Jan. 2014.
  - **R. M. Radaydeh** and M.-S. Alouini, “Comparisons of Receive Array Interference Reduction Techniques Under Erroneous Generalized Transmit Beamforming,” *IEEE Transactions on Communications*, vol. 62, no. 1, pp. 600–615, Feb. 2014.
  - A. Zafar, **R. M. Radaydeh**, Y. Chen, M.-S. Alouini, “Enhancing the Efficiency of Constrained Dual-hop Variable-gain AF Relaying under Nakagami-m Fading,” *IEEE Transactions on Signal Processing*, vol. 62, no. 14, pp. 3616–3630, July 2014.



- 2013

- F. S. Al-Qahtani, Jing Yang, **R. M. Radaydeh**, and H. Alnuweiri, "On the Capacity of Two-Hop AF Relaying in the Presence of Interference Under Nakagami- $m$  Fading," *IEEE Communications Letters*, vol. 17, no. 1, pp. 19–22, Jan. 2013.
- A. Magableh, **R. M. Radaydeh**, and M.-S. Alouini, "On the Performance of Shared-Access Control Strategy for Femtocells," *Transactions on Emerging Telecommunications Technologies*, vol. 24, no. 2, pp. 244–256, March 2013.
- F. Gaaloul, **R. M. Radaydeh**, M.-S. Alouini, "Performance Improvement of Switched-Based Interference Mitigation for Downlink Channel Assignment in Over-Loaded Small-Cell Networks," *IEEE Transactions on Wireless Communications*, vol. 12, no. 5, pp. 2091–2103, May 2013.

- 2012

- F. Gaaloul, **R. M. Radaydeh** and M.-S. Alouini, "Comparison of Low-Complexity Diversity Schemes For Dual-Hop AF Relaying Systems," *IEEE Transactions on Vehicular Technology*, vol. 61, no. 2, pp. 826–833, February 2012.
- **R. M. Radaydeh** and M.-S. Alouini, "Switched-Based Interference Reduction Scheme for Open-Access Overlaid Cellular Networks," *IEEE Transactions on Wireless Communications*, vol. 11, no. 6, pp. 2160–2172, June 2012.
- A. Zafar, Y. Chen, M.-S. Alouini, and **R. M. Radaydeh**, "Optimizing Co-operative Cognitive Radio Networks with Opportunistic Access," *Journal of Computer Networks and Communications*, special issue on Trends and Applications of Cognitive Radio, 2012.
- F. Gaaloul, **R. M. Radaydeh** and M.-S. Alouini, "Switched Diversity Strategies for Dual-Hop AF Relaying Systems," *IET Communications*, vol. 6, no. 12, pp. 1651–1661, August 2012.
- **R. M. Radaydeh** and M.-S. Alouini, "Low-Overhead Interference Mitigation Scheme for Collaborative Channel Assignment in Over-Loaded Multi-Antenna Femtocells," *IEEE Transactions on Vehicular Technology*, vol. 61, no. 7, pp. 3071–3086, September 2012.
- F. Gaaloul, H.-C. Yang, **R. M. Radaydeh**, and M.-S. Alouini, "Switch Based Opportunistic Spectrum Access for General Primary User Traffic Model," *IEEE Wireless Communications Letters*, vol. 1, no. 5, pp. 424–427, October 2012.
- F. Gaaloul, **R. M. Radaydeh**, H.-C. Yang, and M.-S. Alouini, "Adaptive Scheduling with Post-Examining User Selection in Non-Identical Fading," *IEEE Transactions on Vehicular Technology*, Vol. 61, no. 9, pp. 4175–4183, November 2012.
- F. S. Al-Qahtani, Jing Yang, **R. M. Radaydeh**, Caijun Zhong, and H. Alnuweiri, "Exact Outage Analysis of Dual-Hop Fixed-Gain AF Relaying with CCI under Dissimilar Nakagami- $m$  fading," *IEEE Transactions on Wireless Communications*, vol. 11, no. 12, pp. 4211–4221, December 2012.

- ing,” *IEEE Communications Letters*, vol. 16, no. 11, pp. 1756–1759, November 2012.
- A. Zafar, **R. M. Radaydeh**, Y. Chen, M.-S. Alouini, “Energy-Efficient Power Allocation for Fixed-Gain Amplify-and-Forward Relay Networks with Partial Channel State Information,” *IEEE Wireless Communications Letters*, vol. 1, no. 6, pp. 553–556, 2012.
- **2011**
    - **R. M. Radaydeh** and M.-S. Alouini, “On the Performance of Arbitrary Transmit Selection for Threshold-Based Receive MRC With and Without Co-channel Interference,” *IEEE Transactions on Communications*, vol. 59, no. 11, pp. 3177–3191, November 2011.
    - **R. M. Radaydeh** and M.-S. Alouini, “Impact of Co-channel Interference on the Performance of Adaptive Generalized Transmit Beamforming,” *IEEE Transactions on Wireless Communications*, vol. 10, no. 8, pp. 2616–2629, August 2011.
    - **R. M. Radaydeh** and M.-S. Alouini, “Adaptive Single-Antenna Transmit Selection With Interference Suppression,” *IEEE Transactions on Wireless Communications*, vol. 10, no. 10, pp. 3196–3210, October 2011.
    - M.-A. Daghfous, **R. M. Radaydeh** and M.-S. Alouini, “Performance of Adaptive MS-GSC in the presence of Cochannel Interference,” *IEEE Transactions on Vehicular Technology*, vol. 60, no. 6, pp. 2829–2837, July 2011.
  - **2010**
    - **R. M. Radaydeh**, “Performance of Non-Ideal OT-MRC with Co-channel Interference,” *IEEE Transactions on Communications*, vol. 58, no. 12, pp. 3352–3357, December 2010.
  - **2009**
    - **R. M. Radaydeh**, “SNR and SINR-based selection combining algorithms in the presence of arbitrarily distributed co-channel interferers,” *IET Communications*, vol. 3, no. 1, pp. 57–66, January 2009.
    - **R. M. Radaydeh**, “Performance of Cellular Mobile Systems Employing SNR-Based GSC in Presence of Rayleigh and Nakagami- $q$  Cochannel Interferers,” *IEEE Transactions on Vehicular Technology*, vol. 58, no. 6, pp. 3081–3088, July 2009.
    - **R. M. Radaydeh**, “Performance of W-CDMA Systems with Rectangular Signalling in OSTBC MIMO Generalized Nakagami- $m$  Fading Channels,” *IET Communications*, vol. 3, no. 8, pp. 1379–1391, August 2009.
    - **R. M. Radaydeh**, “Receive MRC with Outdated Arbitrary Transmit Antenna Selection in Nakagami- $m$  Fading,” *IET Communications*, vol. 3, no. 10, pp. 1638–1648, October 2009.

- **R. M. Radaydeh**, “Impact of Delayed Arbitrary Transmit Antenna Selection on the Performance of Rectangular QAM with Receive MRC in Fading Channels,” *IEEE Communications Letters*, vol. 13, no. 6, pp. 390–392, June 2009.
- **R. M. Radaydeh**, “MRC in Presence of Asynchronous Co-Channel Interference Over Frequency-Selective Rayleigh Fading Channels,” *IEEE Transactions on Vehicular Technology*, vol. 58, no. 8, pp. 4329–4341, October 2009.
- **2008**
  - **R. M. Radaydeh** and M. M. Matalgah, “Compact Formulas for the Average Error Performance of Noncoherent M-ary Orthogonal Signals Over Generalized Rician, Nakagami-m, and Nakagami-q Fading Channels with Diversity Reception,” *IEEE Transactions on Communications*, vol. 56, no. 1, pp. 32–38, January 2008.
  - **R. M. Radaydeh** and M. M. Matalgah, “Noncoherent Improved-Gain Diversity Reception of Binary Orthogonal Signals in Nakagami-q (Hoyt) Mobile Channels,” *IET Communications*, vol. 2, no. 2, pp. 372–379, February 2008.
  - **R. M. Radaydeh** and M. M. Matalgah, “Results for Infinite Integrals Involving higher-Order Powers of the Gaussian Q-function with Application to Average SEP Analysis of DE-QPSK,” *IEEE Transactions on Wireless Communications*, vol. 7, no. 3, pp. 793–798, March 2008.
  - **R. M. Radaydeh** and M. M. Matalgah, “Simple Average BER Formulas for M-ary Orthogonal Signals with Noncoherent Diversity Combining in Nakagami-m Fading Channels,” *IEEE Transactions on Communications*, vol. 56, no. 5, pp. 694–699, May 2008.
  - **R. M. Radaydeh** and M. M. Matalgah, “Average BER Analysis for M-ary FSK Signals in Nakagami-q (Hoyt) Fading with Noncoherent Diversity Combining,” *IEEE Transactions on Vehicular Technology*, vol. 57, no. 4, pp. 2257–2267, July 2008.
  - **R. M. Radaydeh**, “Performance analysis of rectangular quadrature amplitude modulation with combined arbitrary transmit antenna selection and receive maximal ratio combining in nakagami-m fading,” *IET Communications*, vol. 2, no. 8, pp. 1077–1088, September 2008.
- **2007**
  - M. M. Matalgah, **R. M. Radaydeh**, and M. H. Ismail, “Performance Analysis of the Forward Link cdma2000 1xEV-DO Evolution for Multi-Rate Services in Cellular Wireless Systems,” *Wiley Journal on Wireless Communications and Mobile Computing*, vol. 7, no. 4, pp. 431–444, 2007.
  - **R. M. Radaydeh**, “Average Error Performance of M-ary Modulation Schemes in Nakagami-q (Hoyt) Fading Channels,” *IEEE Communications Letters*, vol. 11, no. 3, pp. 255–257, March 2007.

- **R. M. Radaydeh** and M. M. Matalgah, “Simple Analysis for Average BER of Orthogonal Signals in Nonidentical Rician Channels with Improved-Gain Noncoherent Diversity Reception,” *IEEE Communications Letters*, vol. 11, no. 4, pp. 337–339, April 2007.
  - **R. M. Radaydeh**, “Average SEP of Rectangular QAM in Rayleigh Fading with GSC,” *IEEE Communications Letters*, vol. 11, no. 6, pp. 492–494, June 2007.
  - **R. M. Radaydeh**, “Simple Tight Upper Bounds for Average SEP and BEP of Coherent Diversity M-ary Biorthogonal Signals Over Fading Channels,” *IEEE Transactions on Vehicular Technology*, vol. 56, no. 5, pp. 2816–2820, September 2007.
- **2006**
    - **R. M. Radaydeh**, “Simple approximate expression for error performance of coherent M-ary orthogonal signals in generalised fading channels,” *IEE/IET Electronics Letters*, vol. 42, pp. 293–294, March 2006.
    - **R. M. Radaydeh** and M. M. Matalgah, “Improved Performance Noncoherent Weighted-Coefficients Diversity Combiner for DPSK and NC-FSK Signals in Nonidentical Nakagami Fading Channels,” *IEEE Communications Letters*, vol. 10, pp. 281–283, April 2006.
    - **R. M. Radaydeh** and M. M. Matalgah, “Closed Form Expression for the Error Performance of Noncoherent M-ary Orthogonal Signals Over Multi-Branch Rayleigh Fading Channels with Arbitrary Average Fading Powers,” *IEEE Communications Letters*, vol. 10, no. 9, pp. 661–663, September 2006.
  - **2005**
    - M. M. Matalgah and **R. M. Radaydeh**, “Hybrid Frequency-Polarization Shift-Keying Modulation for Optical Transmission,” *IEEE Journal Of Lightwave Technology*, vol. 23, no. 3, pp. 1152–1163, March 2005.
  - **2004**
    - S. M. Radaideh, M. T. Hayajneh, and **R. M. Radaydeh**, “Series Resistance Compensation in PTAT Temperature Sensors and Bandgap Reference Circuits,” *International Journal of Electronics*, vol. 91, Issue 5, pp. 259 - 269, May 2004.
- **2018**
    - R. M. Radaydeh, F. S. Al-Qahtani, A. Celik, Khalid A. Qaraqe, and M.-S. Alouini, “Imperfect D2D Association in Spectrum-Shared Cellular Networks Under Interference and Transmit Power Constraints,” *IEEE International Conference on Communications (ICC-Workshops)*, 2018, pp. 1–6.

PUBLICATIONS  
– REFEREED  
CONFERENCE  
PAPERS

- 2017

- A. Celik, **R. M. Radaydeh**, F. S. Al-Qahtani, A. H. Abd El-Malek, and M.-S. Alouini, “Resource Allocation and Cluster Formation for Imperfect NOMA in DL/UL Decoupled HetNets,” *IEEE Global Communications Conference (Globecom 2017)– Workshop on Ultra-Reliable Low-Latency Communications in Wireless Networks*, 2017, pp. 1–6.
- A. Celik, F. S. Al-Qahtani, **R. M. Radaydeh**, and M.-S. Alouini, “Cluster Formation and Joint Power-Bandwidth Allocation for Imperfect NOMA in DL-HetNets,” *IEEE Global Communications Conference (Globecom 2017)*, 2017, pp. 1–5.
- **R. M. Radaydeh**, F. S. Al-Qahtani, A. Celik, and M.-S. Alouini, “Dynamic Downlink Spectrum Access for D2D-Enabled Heterogeneous Networks,” *IEEE Global Communications Conference (Globecom 2017)*, 2017, pp 1–7.
- A. A. AbdelNabi, F. S. Al-Qahtani, **R. M. Radaydeh**, and M. Shaqfeh, “Performance of Overlaid MIMO Cellular Networks with TAS/MRC Under Hybrid-Access Small Cells and Poisson Field Interference,” *IEEE Vehicular Technology Conference (VTC2017-Fall)*, 2017, pp. 1–7.
- A. Celik, **R. M. Radaydeh**, F. S. Al-Qahtani, and M.-S. Alouini, “Joint Interference Management and Resource Allocation for Device-to-Device (D2D) Communications Underlying Downlink/Uplink Decoupled (DUDe) Heterogeneous Networks,” *IEEE International Conference on Communications (ICC’17)*, 2017, pp. 1–6.

- 2015

- A. M. Salhab, F. Al-Qahtani, **R. M. Radaydeh**, S. A. Zummo, H. Alnuweiri, “Multiuser Scheduling in Mixed RF/FSO Relaying with Outdated Channel Estimation,” *IEEE Global Communications Conference (Globecom 2015)*, 2015, pp. 1–6.
- **R. M. Radaydeh**, F. Gaaloul, and M.-S. Alouini, “On the Impact of Closed Access and Users Identities in Spectrum-Shared Overlaid Wireless Networks,” *IEEE Global Communications Conference (Globecom 2015)*, 2015, pp. 1–6.
- **R. M. Radaydeh**, A. Zafar, F. S. Al-Qahtani, and M.-S. Alouini, “Low-Complexity Interference-Free Downlink Channel Assignment with Improved Performance in Coordinated Small Cells,” *IEEE Vehicular Technology Conference (VTC 2015-Spring)*, 2015, pp. 1–6.

- 2013

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