

Salama Said Ikki

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EXPERIENCE

Visiting Research Professor (Nokia Scholarship) at Aalto University.

Lakehead University Research Chair, April 1, 2021-present

Faculty of engineering, Electrical & Computer Department, Lakehead University, Thunder Bay, Ontario, Canada.

Associate Professor, September 1, 2016-present

Faculty of engineering, Electrical & Computer Department, Lakehead University, Thunder Bay, Ontario, Canada.

Assistant Professor, August 1, 2013- August 31, 2016

Faculty of engineering, Electrical & Computer Department, Lakehead University, Thunder Bay, Ontario, Canada.

Lecturer in Wireless Communications, Jan. 2, 2013- Dec. 1, 2013

School of Electrical & Electronics Engineering, Newcastle University, Newcastle Upon Tyne, NE1 7RU, UK.

Research Fellow, Feb.1, 2010-Nov. 31, 2012, INRS

Telecommunication Department, Prof. Sonia Aissa Research Group.

Postdoctoral Fellow, Feb 1, 2009-Jan 31, 2010, University of Waterloo

Electrical and Computer Engineering Department, Prof. Murat Uysal Research Group.

Full Time Lecturer, Sep. 2002 - Sep. 2005

Electrical and Computer Engineering Department, Islamic University of Gaza, Palestine

EDUCATION

Memorial University, Canada

Ph.D., Electrical Engineering, September 2005-January 2009.

M.Sc., Electrical Engineering, GPA: 3.92/4.00 (1st rank), September 2000-September 2002

RESEARCH GRANTS

1. Mitacs Accelerate, 2022–2024, 110,000 CAD\$, Title: Low-Cost Sensor System for Remote COVID-19 Patient Monitoring.
2. NSERC Alliance 2020, 50,000 CAD\$, Title: Early identification and monitoring of the 2019 novel Coronavirus (Covid-19) disease community spread, (In partnership with Onica.)
3. NSERC-DG 2020, 205,000 CAD\$ (Two parts: LU 7000 CAD\$ + NSERC DG, 200,000 \$CAD). Title: Combined Massive MIMO and Interference Alignment for future Wireless Networks Involving Machine Type Communications.
4. NSERC Discovery Grant, 2014–2020, 150,000CAD\$.

5. NSERC ENGAGE Grant: LTE-advanced Machine Type Communication for Internet of Things (In partnership with WiMatek Systems). 2016-2017, 50,000CAD\$
6. NSERC ENGAGE Grant: Quadrature Spatial Modulation for Large-Scale MIMO Systems (In partnership with Ericsson). 2017-2018, 50,000CAD\$.
7. NSERC ENGAGE Grant: Mine Safety System Using Wireless Sensor Networks (In partnership with Goldcorp Inc.). 2017-2018, 50,000CAD\$
8. NSERC ENGAGE Grant: Machine Learning Based Cyber Threat Intelligence and detection in the Smart Grid (In partnership with N-Dimension Solutions Inc.). 2018-2019, 50,000CAD\$
9. NOAMA-AFP Grant 2020. Title: Medical Cyber-Physical Systems: An Efficient Sparse Biosensor Method for Remote Patient Monitoring. (Co- Investigator).
10. Lakehead University Internal Research Grant, 2014 30,000CAD\$.
11. Tabuk University, KSA, Grant, 2013-2015, 20,000US\$ per year.

HONORS and AWARDS

1. **Merit Award for exceptional performance in research**, Lakehead University, 2013–2015, 2015–2017, 2017–2019 and 2019–2021.
2. **Exemplary Reviewer Certificates:**
 - (a) IEEE Transactions on Communications, 2016.
 - (b) IEEE Transactions on Vehicular Technology, 2015.
 - (c) IEEE Communications Letters, 2013.
 - (d) IEEE Wireless Communications Letters, 2013.
3. **EURASIP Best Paper Award:**
Salama Ikki and Mohamed H. Ahmed, "Performance of Multiple-Relay Cooperative Diversity Systems with Best-Relay Selection over Rayleigh Fading Channels," *EURASIP Journal on Advances in Signal Processing*, vol. 2008.
4. **IEEE ComSoc Technology News:** IEEE ComSoc Technology News is a web-based publication that will bring the top 0.5% of the most interesting, timely, and newsworthy articles to ComSoc members and to the entire global community.
Salama Ikki and R. Mesleh, "A General Framework for Performance Analysis of Space Shift Keying (SSK) Modulation in the Presence of Gaussian Imperfect Estimations," *IEEE Communications*, vol. 16, no. 2, 2012.
5. **School of Electrical and Electronic Engineering, Newcastle University, Annual Research Conference, 2014.** Second place for "Best Poster".
6. **Memorial University**
 - (a) Department of Electrical Engineering Scholarship, September 2005-January 2009.
 - (b) Dissertation Fellowship, January 2009.
7. **The Arab academy for Science and Technology and Maritime Transport, Alexandria, Egypt**
 - (a) Graduate Scholarship, September 2000- September 2002.

8. Al-Isra Jordanian University

- (a) Undergraduate Scholarship, Feb 1992- September 1996.
- (b) Best student award, Al-Isra Jordanian University, Amman, Jordan, 1996.

PROFESSIONAL SERVICES

Services in Lakehead University

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| 1. Senate Member, Lakehead University, 2017–2019. | 6. Electrical Engineering Chair Appointment Committee, Faculty of Engineering, 2016 |
| 2. Chair of Senate Honorary Degrees Committee, 2017–2019. | 7. Acting Chair Of Electrical Engineering, August 2015–December 2015. |
| 3. Member in Senate Honorary Degrees Committee, 2016–2019. | 8. Member of Judge in Lakehead Engineering Competition, Lakehead University, 2016, 2017. |
| 4. Member in Senate Library Committee 2016–2019. | 9. Senior Member in IEEE organization. |
| 5. Member in Math Committee, Faculty of Engineering, 2014– | 10. Member in Professional Engineers, Ontario (P. Eng). |

Editor:

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| 1. IEEE Communications Letters | 2. IET Communications |
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Reviewer for Journals

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| 1. IEEE Communication Magazine | 8. IEEE Signal Processing Letters, |
| 2. IEEE Journal on Selected Areas on Communications, | 9. IEEE Wireless Communication Letters, |
| 3. IEEE Transaction on Communications, | 10. EURASIP Journal on Advanced signal Processing, |
| 4. IEEE Transaction on Wireless communications, | 11. EURASIP Journal on Wireless Communications, |
| 5. IEEE Transaction on Vehicular Technology, | 12. Journal of Communications and Networks, |
| 6. IEEE Transaction on Signal Processing, | 13. IET Communication, and |
| 7. IEEE Communication Letters, | 14. IET Signal Processing Proceeding. |

CURRENT/PREVIOUS POSTDOCTORAL FELLOW SUPERVISION

1. [Malek Al Smadi](#), (Ongoing), *Topic*: Visible light communications and positioning.
2. [Yahia Alghorani](#), (Ongoing), *Topic*: Low-Cost Sensor System for Remote COVID-19 Patient Monitoring.
3. [Ibrahim Alnahal](#), (Completed), *Topic*: Sparse Code Division Multiple Access.
4. [Walid Hassan](#), (Completed), *Currently*: Director of Basra Wireless Communication Research Lab.

5. [Ali Afana](#), (Completed), *Currently*: System Developer Engineer with Ericsson, Ottawa, Canada.
6. [Eylem Erdogan](#), (Completed), *Currently*: Assistant Professor at Istanbul Medeniyet University, Istanbul, Turkey.
7. [Amir H. Forghani](#), (Completed), *Currently*: System Analyst/Engineer, Verizon, Massachusetts, USA.
8. [Asmaa Bouhleb](#), (Completed), *Currently*: Assistant Professor at University of Hafr Albatin, KSA.
9. [Ayse Elif Canbilen](#), (Completed), *Currently*: Assistant Professor, Electrical Engineering Department, Konya Teknik Üniversitesi, Konya, Turkey.

CURRENT/PREVIOUS PHD STUDENTS SUPERVISION

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| 1. Jammal Hussien , (Graduated) (Sept. 2013–Sep. 2017), Principal Supervisor. (Currently Assistant Professor at University of Sulaimani, Iraq) | 8. Osama Amjad , (Graduated), Principal Supervisor. |
| 2. Asma Bouhleb , (Graduated), (1/9/2016–1/7/2018), Co-supervisor. Present Position: Post-doctorate fellow in my group. | 9. Ghasemi Fariba , (Graduated), Principal Supervisor. |
| 3. Ahmed Cheema , (Graduated), Principal Supervisor. | 10. Bushra Mughal , (Graduated), Principal Supervisor. |
| 4. Malek Aalsamdi , (Graduated), Principal Supervisor. | 11. Sultanul Kabir , (Sep. 2017), Principal Supervisor. |
| 5. Huda Alsheyab , (Graduated), Principal Supervisor. | 12. Ibrahim alhurani , (Sep. 2020), Principal Supervisor. |
| 6. Ibrahim Alnahhal , (Graduated), Principal Supervisor | 13. Maysa Yaseen , (Sep. 2020), Principal Supervisor. |
| 7. Islam Abu Mahady , (Graduated), Principal Supervisor. | 14. Deeb Tubail , (Sep. 2020), Principal Supervisor. |
| | 15. Sara Hasan , (Sep. 2021), Principal Supervisor. |
| | 16. Hamizuh Alsmadi , (Sep. 2017), Principal Supervisor |

Invited Talks

1. **Keynote Speaker**: Al-Azhar Engineering Fifteen International Conference.
2. **Invited Talk**: “5th Generation and Beyond Wireless Communications Challenges”, Chalmers University of Technology, Sweden, 2020.
3. **Invited Talk**: “5th Generation and Beyond Wireless Communications Challenges”, Friedrich-Alexander-University Erlangen-Nuremberg, Germany, 2019.
4. **Keynote Speaker** at 2nd EAI International Conference on Smart Grid and Internet of Things (IoT)
Title: 5th Generation Wireless Communications Challenges Including Smart Grids and their Security, 2018.
5. **Tutorial** on “Quadrature Spatial Modulation”, 28th Biennial Symposium on Communications (BSC), Kelowna, British Columbia, June 5–8, 2016.

6. **Invited Talk:** "Shedding lights on future wireless communications", Wireless Heterogeneous Sensor Networks(Wisense), University of Ottawa, 29 Nov. 2012.
7. **Invited Talk:** "Shedding lights on future wireless communications", Computer, Electrical and Mathematical Sciences and Engineering, KAUST, Saudi Arabia, 2013.
8. **Invited Talk:** "Future Direction of wireless communications", School Electrical and Electronics Engineering, University of York, York, UK, 2013.
9. **Invited Talk:** "Challenges and Opportunities in Wireless Communications Research", Texas A&M Qatar Campus, 2014.
10. **Invited Talk:** "Future Direction of wireless communications" Computer, Electrical and Mathematical Sciences and Engineering, KAUST, Saudi Arabia, December 2013.

PUBLICATIONS

[Total number of citations: \approx 5500, H-index: 35, 10-index:101]

Patent

1. **(Published)** Quadrature spatial modulation system: <http://www.freepatentsonline.com/9813278.html>,
Inventors: Raed Mesleh, Salama Ikki, and El Hadi Aggoune.
Assignee: Sensor Networks and Cellular System, University Of Tabuk, Saudi Arabia.
 Patent Application No: 14/972379.
 Application date: 17 December 2015.
 Publication Date: 7 November 2017.
 Document Type and Number: United States Patent 9813278.
 Link: <http://www.freepatentsonline.com/9813278.html>
2. **(Published)** Retransmission Scheme for OFDM-Index Modulation and Spatial Modulation:
Inventors: Ali Afana, A. Bin Sediq, Salama Ikki and Alex Stephenne
Assignee: Ericsson, Ottawa, Canada
 Patent Application No: 14/972379
 International Application No: PCT/IB2018/057265
 Publication Date: 11.04.2019
 Link: <https://patentscope.wipo.int/search/en/detail.jsf?docId=W02019069168>

Journal Articles

Accepted/Published

2022

1. Ayse Elif Canbilen, Basar Ertugrul and Salama Ikki, "On the Performance of RIS-Assisted Space Shift Keying: Ideal and Non-Ideal Transceivers", *IEEE Transactions on Communications*, accepted, 2022.
2. Deeb Tubail, Busra Ceniklioglu, Ayse Elif Canbilen, Ibrahim Develi and Salama Ikki, "Error Bounds for 3D Localization and Maximum Likelihood Estimation of mm-wave MISO OFDM Systems in the Presence of Hardware Impairments," *IEEE Communications Letters*, Accepted, 2022.

3. Deeb Tubail, Busra Ceniklioglu, Ayse Elif Canbilen, Ibrahim Develi and Salama Ikki, "The Effect of Hardware Impairments on the Error Bounds of Localization and Maximum Likelihood Estimation of mm-Wave MISO-OFDM Systems," *IEEE Transactions on Vehicular Technology*, Accepted, 2022.
4. Ibrahim Al-Nahhal, Octavia A. Dobre, Ertugrul Basar, Telex M. N. Ngatched, and Salama Ikki, "Reconfigurable Intelligent Surface Optimization for Uplink Sparse Code Multiple Access," *IEEE Communications Letters*, vol. 26, no. 1, pp. 133–137, 2022.
5. Bushra Mughal, Zubair Fadlullah, Mostafa Fouda, and Salama Ikki, "Allocation Schemes for Relay Communications: A Multi-Band Multi-Channel Approach Using Game Theory," *IEEE Sensors Letters*, vol. 6, no. 1, pp. 1–4, 2022.
6. Ahmad Cheema, Malek Alsmadi and Salama Ikki, "Effects of Signal-Dependent Shot Noise on Visible Light Positioning," vol. 14, no. 3, *IEEE Photonics Journal*, 2022.
7. Fariba Ghaseminajm, Malek Alsmadi and Salama Ikki, "Error Bounds for Localization in mmWave systems: Effects of Hardware Impairments Considering Perfect and Imperfect Clock Synchronization," Accepted, *IEEE System Journal*, 2022.
8. Bushra Mughal, Zubair Fadlullah, Mostafa Fouda, and Salama Ikki, "Optimizing Packet Forwarding Performance in Multi-Band Relay Networks via Customized Reinforcement Learning," Accepted, *IEEE Communications Journal*, 2022.
9. Osama Amjad, Ebrahim Bedeer, Najah Abu Ali and Salama Ikki, "Energy-Efficient Resource Allocation for eHealth Monitoring Wireless Body Area Networks with Backscatter Communication", Accepted, *IEEE Sensors Journal*, 2022.
10. Bushra Mughal, Zubair Fadlullah, Mostafa Fouda, and Salama Ikki, "Applying Game Theory to Relay Resource Selection in Hybrid-band Wireless Systems," *IEEE Sensors Journal*, Accepted, 2022.

2021

11. Maysa Yaseen, Malek Alsmadi, Ayse E. Canbilen, and Salama Ikki, "Visible Light Communication with Input-Dependent Noise: Channel Estimation, Optimal Receiver Design, and Performance Analysis", Accepted, *IEEE Journal of Lightwave*, 2021.
12. Ahmad Cheema, Malek Alsmadi and Salama Ikki, "Distance Estimation in Visible Light Communications: The Case of Imperfect Synchronization and Signal-Dependent Noise," Accepted, *IEEE Transactions on Vehicular Technology*, 2021.
13. Alaa Alhbbash, Ammar Abu-Hudrous, Mohammed Taha Elastal, Mahmoud Albreem and Salama Ikki, "Extended Signed Quadrature Spatial Modulation System with Multi-User Support", Accepted, *IEEE Transaction on Broadcasting*, 2021.
14. Malek Alsmadi, Ayse E. Canbilen, Najah Abu Ali and Salama Ikki, "Effect of Generalized Improper Gaussian Noise and In-Phase/ and Quadrature-Phase Imbalance on Quadrature Spatial Modulation ", *IEEE Journal of Signal Processing*, vol. 2, pp. 295–308, 2021.
15. Leila Nasraoui and Salama Ikki, "Neighbor Discovery for ProSe and V2X Communications" *IEEE Internet of Things Journal*, vol. 8, no. 9, pp. 7241–7251, May 2021.
16. Mahmoud Albreem, Alaa Alhbbash, Ammar Abu-Hudrous, and Salama Ikki, "Overview of Precoding Techniques for Massive MIMO", *IEEE Access*, Vol. 9, pp. 60764–60801, 2021.

2020

17. Bushra Mughal, Zubair Fadlullah and Salama Ikki, "Centralized Versus Heuristic-based Distributed Channel Allocation to Minimize Packet Transmission Delay for Multiband Relay Networks", *IEEE Networking Letters*, vol. 2, no. 4, pp. 180–184, Dec. 2020.
18. Ibrahim Al-Nahhal, Octavia Dobre and Salama Ikki, "On the Complexity Reduction of Sparse Code Multiple Access for Spatial Modulation," *IEEE Transactions on Communications*, vol. 68, no. 11, pp. 6962-6974, Nov. 2020.
19. Ayse Elif Canbilen, Basar Ertugrul and Salama Ikki, "Reconfigurable Intelligent Surface-Assisted Space Shift Keying" *IEEE Wireless Communications Letters*, vol. 9, no. 9, pp. 1495-1499, Sep. 2020.

20. Fariba Ghaseminajm, Zohair Abu-Shaban, Salama Ikki, Henk Wymeersch and Craig R. Benson, "Localization Error Bounds For 5G mmWave Systems Under I/Q Imbalance", *IEEE Transactions on Vehicular Technology*, vol. 69, no. 7, pp. 7971-7975, July 2020.
21. O. M. S. Al-Ebraheemy, A. M. Salhab, M. El-Absi, Salam Zummo and Salama Ikki, "Performance Analysis of Mixed Interference Aligned MIMO RF/Unified FSO DF Relaying with Heterodyne Detection and Two IMDD Models", *IEEE Access*, vol. 8, pp. 93297-93308, 2020.
22. Huda El-Sheyab, Salimur Choudhury, Ibrahim Bedeer and Salama Ikki "Interference Minimization Algorithms for 5G and Beyond Systems," *Elsevier Computer Communications*, Special Issue on Unmanned Aerial, vol. 156, pp. 145-158, April 2020.
23. Ayse Elif Canbilen, Salama Ikki, Basar Ertugrul, Seyfettin Sinan Gultekin and Ibrahim Develi, "Joint Impact of I/Q Imbalance and Imperfect CSI on SM-MIMO Systems over Generalized Beckmann Fading Channels," *IEEE Transactions on Wireless Communications*, vol. 19, no. 15, pp. 3034-3046, Feb. 2020.
24. M. Al-Jarrah, A. Al-Dweik, Salama Ikki and Emad Alsusa, "Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection", *IEEE System Journal*, vol. 14, no. 2, June 2020.
25. Osama Amjad, Ibrahim Bedeer, Najah AbuAli and Salama Ikki, "Robust Energy Efficiency Optimization Algorithm for Health Monitoring System with Wireless Body Area Network ", *IEEE Communications Letters*, vol 24, no. 5, pp. 1142-1145, 2020.

2019

26. Ibrahim Al-Nahhal, Octavia Dobre, Basar Ertugru, Cecilia Moloney and Salama Ikki, "A Fast, Accurate, and Separable Method for Fitting a Gaussian Function", *IEEE Signal Processing Magazine*, Accepted, 2019.
27. Osama Amjad, Ibrahim Bedeer and Salama Ikki, "Energy Efficiency Maximization of Self-Sustained Wireless Body Area Sensor Networks," *IEEE Sensor Letters*, vol. 3, no. 12, 2019.
28. Leila Nasraoui and Salama Ikki, "Theoretical Probability of DMRS-based Neighbor Discovery for Proximity Services," *IEEE Wireless Communications Letters*, Submitted, 2019.
29. Ibrahim Al-Nahhal, Octavia Dobre, Basar Ertugru and Salama Ikki, "Uplink Sparse Code Multiple Access for Generalized Spatial Modulation", *IEEE Transactions on Vehicular Technology*, Submitted, 2019.
30. Omer Mahmoud, Anas Salhab, Mohammed El Absi, Slam Zemmo, Salam Adel Zummo and Salama Ikki, "Performance Analysis of Mixed Interference Aligned MIMO RF/Unified FSO Relaying with Heterodyne Detection and Two IM-DD Models," *IEEE Access*, Submitted, 2019.
31. Ibrahim Al-Nahhal, Octavia Dobre, Basar Ertugru and Salama Ikki, "Optimum Low-Complexity Decoder for Spatial Modulation", *IEEE Journal on Selected Areas in Communications (IEEE J-SAC)* , Accepted, 2019.
32. M. Al-Jarrah, A. Al-Dweik, Salama Ikki and Emad Alsusa, "Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection ," *IEEE system Journal*, Accepted, 2019.
33. Walid A. Hassan, Han-Shin Jo Member, and Salama Ikki, "Spectrum-sharing Method for Co-existence Between 5G OFDM-Based System and Fixed Service," *IEEE Access*, Accepted, 2019.
34. Eylem Erdogan, Nihat Kabaoglua, Ali Afana and Salama Ikki, "On the Performance of Cognitive Two-Way Relay Networks with Multi-User Scheduling and Shadowing" *Elsevier Physical Communication*, vol. 35, no. 8, 2019.
35. Huda El-Sheyab, Salimur Choudhury, Ibrahim Bedeer and Salama Ikki "Near-Optimal Resource Allocation Algorithms for 5G+ Cellular networks," *IEEE Transactions on Vehicular Technology*, Accepted, 2019.
36. Ali Afana, Najah AbuAli, and Salama Ikki, "On the Joint Impact of Hardware and Channel Imperfections on Cognitive Spatial Modulation MIMO Systems: Cramer-Rao Bound Approach" *IEEE System Journal*, vol. 13, no. 2, pp. 1250-1261, 2019.
37. Malek AlSmadi, Ayse Elif Canbilen, Salama Ikki and, Basar Ertugrul, "Cognitive Networks in the Presence of I/Q Imbalance and Imperfect CSI: Receiver Design and Performance Analysis ," *IEEE Access*, vol. 7, no. 1, pp. 49765-49777, 2019.

38. Ayse Elif Canbilen, Salama Ikki, Basar Ertugrul, Seyfettin Sinan Gultekin and Ibrahim Develi, "Impact of I/Q Imbalance on Amplify-and-Forward Relaying: Optimal Detector Design and Error Performance," *IEEE Transactions on Communications*, vol. 67, no. 5, pp. 3154-3166, May 2019.
39. Sidrah javed, Osama Amin, Salama Ikki and M. -S. Alouini, "Error Probability Analysis of Hardware Impaired Systems with Asymmetric Transmission," *IEEE Transactions on Wireless Communications*, vol. 18, no. 3, pp. 1723-1738, March 2019.
40. Sidrah javed, Osama Amin, Salama Ikki and M. -S. Alouini, "Multiple Antenna Systems with Hardware Impairments: New Performance Limits," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 2, pp. 1593-1606, Feb. 2019.
41. Islam Abu Mahady, Ibrahim Bedeer, Salama Ikki and Halim Yanikomeroglu, "Sum-Rate Maximization of NOMA Systems under Imperfect Successive Interference Cancellation," *IEEE Communications Letters*, vol. 23, no. 3, pp. 474-477, March 2019.
42. Eylem Erdogan, Ali Afana, Hamza Umit Sokun, Salama Ikki, Lutfiye Durak-Ata, Halim Yanikomeroglu, "Signal Space Cognitive Cooperation," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 2, pp. 1953-1957, Feb. 2019.
43. M. Al-Jarrah, A. Al-Dweik, M. Kalil and Salama Ikki, "Decision Fusion in Distributed Cooperative Wireless Sensor Networks," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 1, pp. 797-811, Jan. 2019.

2018

44. Ayse Elif Canbilen, Malek AlSmadi, Basar Ertugrul, **Salama Ikki**, Seyfettin Sinan Gultekin, Ibrahim Develi, "Spatial Modulation in the Presence of I/Q Imbalance: Optimal Detector & Performance Analysis," *IEEE Communications Letters*, vol. 22, no. 8, August 2018.
45. Deeb Tubail, Mohammed El Absi, **Salama Ikki**, Wessam Mesbah, and Thomas Kaiser, "Artificial Noise based Physical Layer Security in Interference Alignment Multi-pair Two-Way Relaying Networks", *IEEE Access*, Vol. 6, no. 1, pp. 19073-19085, Dec., 2018.
46. Asma Bouhleh, Salama Ikki and Anis Sakly, "Quadrature Dual Mode Index Modulation," *IEEE Wireless Communications Letters*, Vol. 7, no. 4, pp. 542-545, August 2018.
47. Ali Afana, Najah AbuAli, and Salama Ikki, "On the Joint Impact of Hardware and Channel Imperfections on Cognitive Spatial Modulation MIMO Systems: Cramer-Rao Bound Approach" *IEEE System Journal*, Accepted, 2018.

2017

48. Asma Bouhleh, Stavros G. Domouchtsidis, **Salama Ikki** and Anis Sakly, "Performance of OFDM-IM Under Joint Hardware Impairments and Channel Estimation Errors over Correlated Fading Channels," *[Special Issue] IEEE Access*, vol. 5, no. 5, Dec. 2017.
49. Ali Afana, Islam Abu Mahady and **Salama Ikki**, "Quadrature Spatial Modulation in MIMO Spectrum Sharing Systems with Limited Feedback and Imperfect Channel Estimation," *IEEE Transaction on Communications*, vol. 65, no. 3, pp. 981-991, March 2017. **(Most downloaded papers in March 2017).**
50. J. A. Hussein, S. Boussakta and **Salama Ikki**, "Performance Study of a UCRN Over Nakagami-m Fading Channels in the Presence of CCI," *IEEE Transactions on Cognitive Communications and Networking*, Vol. 3, no. 4, Dec. 2017.
51. Ali Afana, **Salama Ikki**, Raed Mesleh, and Ibrahim Atawi, "Spectral Efficient Quadrature Spatial Modulation Cooperative AF Spectrum-Sharing Systems," *IEEE Transaction on Vehicular Technology*, vol. 66, no. 3, pp. 2857-2861, March 2017.
52. Sidrah javed, Osama Amin, **Salama Ikki** and M. -S. Alouini, "Asymmetric Hardware Distortions in Receive Diversity Systems: Outage Performance Analysis," *IEEE Access*, vol. 5, no. 1, pp. 4492-4504, Dec. 2017.
53. Ali Afana and **Salama Ikki**, "Analytical Framework for Space Shift Keying MIMO Systems with Hardware Impairments and Co-channel Interference," *IEEE Communications Letters*, vol. 21, no. 3, pp. 488-491, March 2017.

54. Ali Esswie, Mohammed Elabsi, Octavia Dobre, **Salama Ikki** and Thomas Kaiser, "Spatial Channel Estimation Based FDD-MIMO Interference Alignment Systems," *IEEE Wireless Communications Letters*, vol. 6, no. 2, pp. 254–257, Feb. 2017.
55. E. Erdogan, A. Afana, **Salama Ikki** and Halim Yanikomeroglu, "Antenna Selection in MIMO Cognitive AF Relay Networks with Mutual Interference and Limited Feedback," *IEEE Communications Letters*, vol. 21, no. 5, pp. 1111–1114, May 2017.
56. Ibrahim Al-Nahhal, Octavia Dobre and **Salama Ikki**, "Quadrature Spatial Modulation Decoding Complexity: Study and Reduction," *IEEE Wireless Communications Letters*, vol. 6, no. 3, pp. 378–381, June 2017.
57. Hamza U. Sokun, Mehmet C. Ilter, **Salama Ikki** and Halim Yanikomeroglu, "A Spectrally Efficient Signal Space Diversity-Based Two-Way Relaying System," *IEEE Transaction on Vehicular Technology*, vol. 66, no. 7, pp. 6215–6230, July 2017.
58. Raed Mesleh, **Salama Ikki** Tumar and Sahel Alouneh, "Decode-and-Forward with Quadrature Spatial Modulation in the Presence of Imperfect Channel Estimation," *Elsevier Physical Communications Journal*, Vol. 24, Sep. 2017.

2016

59. E. Erdogan, A. Afana, T. Gucluoglu and **Salama Ikki**, "Unified Analysis and Optimization Study of Antenna Selection in Two-Way Relay Networks," *IEEE Wireless Communications Letters*, Vol. 5, no. 2, pp. 216–219, 2016.
60. J. A. Hussein, **Salama Ikki**, C. C. Tsimenidis, S. Boussakta and Jonathon Chambers, "Performance Analysis of a Multi-hop UCRN with Co-Channel Interference," *IEEE Transaction on Communications*, Vol. 64, no.10, pp. 4346–4364, 2016.
61. J. A. Hussein, **Salama Ikki**, C. C. Tsimenidis and S. Boussakta, "Performance Analysis of Opportunistic Scheduling in Dual-Hop Multi-User Underlay Cognitive Network in the Presence of Co-Channel Interference," *IEEE Transaction on Vehicular Technology*, vol. 65, no. 10, pp 8163–8176, 2016.
62. Amr A. AbdelNabi, Fawaz S. Al-Qahtani, Mohammed Shaqfeh, **Salama Ikki** and Hussein Alnuweiri, "MIMO Multi-hop with TAS/MRC in Poisson Field of Interferers," *IEEE Transaction on Communications*, Vol. 64, no.2, pp. 525–540, 2016. (One of the top 50 most frequently downloaded document for the month of March, 2015)
63. Ali Afana, Raed Mesleh, **Salama Ikki** and Ibrahim Atawi, "Performance of Quadrature Spatial Modulation in Amplify-and-Forward Cooperative Relaying," *IEEE Communications Letters*, Vol. 20, no. 2, pp. 240–243, 2016.
64. J. A. Hussein, **Salama Ikki**, C. C. Tsimenidis and S. Boussakta, "Performance Study of Opportunistic Scheduling in Dual-Hop Multi-User Underlay Cognitive Network," *IET Communications*, Vol. 10, no. 5, pp. 558–566, 2016.

2015

65. Raed Mesleh and **Salama Ikki**, "Quadrature Spatial Modulation," *IEEE Transaction on Vehicular Technology*, *IEEE Transaction on Vehicular Technology*, vol 64, no. 6, 2015.
66. Osama Amin, Raed Mesleh, **Salama Ikki**, Mohamed H. Ahmed and Octavia Dobre "Performance Analysis of Multiple Relays Cooperative Systems with Signal Space Diversity," *IEEE Transaction on Vehicular Technology*, vol 64, no. 8, 2015.
67. Hamza Umit Sokun, Akram Bin Sediq, **Salama Ikki** and Halim Yanikomeroglu, "Power Allocation Optimization in Selective DF Relaying with Different Modulation Levels in the Presence of Imperfect Channel Estimations," *IEEE Communications Letters*, vol 19, no. 5, pp. 867–870, 2015.

2014

68. Fawaz Al Qahtani, **Salama Ikki**, and Marco Di Renzo "Performance Analysis of Space Shift Keying (SSK) Modulation with Imperfect Estimation in the Presence of Co-Channel Interference (CCI)," *IEEE Communications Letters*, vol 18, no. 9, pp. 1587–1590, 2014.

69. Fawaz Al Qahtani, **Salama Ikki**, and Marco Di Renzo "Space Shift Keying MIMO System under Spectrum Sharing Environments in Rayleigh Fading," *IEEE Communications Letters*, 4vol 18, no. 9, pp. 1503–1506, July 2014..
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