

**Dr. Abdelhady Mohamed**

Professor  
Electrical Engineering Department  
Benha Faculty of Engineering  
Benha University  
Benha 13512, Egypt

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**EDUCATION****Professor****Oct 2023**

Electrical and Computer Engineering, Benha University, Egypt

**Associate Professor****July 2018**

Electrical and Computer Engineering, Benha University, Egypt

**Post-Doctoral Fellowship****2013- 2015**

Electrical and Computer Engineering, Concordia University, Montreal, QC, Canada

**Assistant Professor****2013-2018**

Electrical and Computer Engineering, Benha University, Egypt

**Doctor of Philosophy****2007-2013**

Electrical and Computer Engineering, Menofiya University, Egypt

Thesis Title: Dielectric Resonator Reflectarray

**PhD Scholarship****2010-2012**

State Key Laboratory of Millimeter wave, Southeast University, Nanjing, China

**Masters of Applied Science****2002-2005**

Electronics and Communications Engineering, Benha University, Egypt

Thesis Title: Active Integrated Antennas

**Bachelor of Science** (*Excellent with honors*)**1995-2000**

Electronics and Communications Engineering, Benha University, Benha, Egypt

Project Title: Microstrip Antennas

**WORK EXPERIENCE****Professor****Present**

Electrical Engineering Department

Faculty of Engineering, Benha University, Benha, Egypt

**Associate Professor****July 2018 – Present**

Electrical Engineering Department

Faculty of Engineering, Benha University, Benha, Egypt

- Strategy plan member.

- Taught the following courses:

Course	Semester
E1413 Waves and Antenna I	1 <sup>st</sup> term 2019
E8400 Advanced Topics in Electric Engineering	2 <sup>nd</sup> term 2019
E1518 Waves and Antenna II	2 <sup>nd</sup> term 2019
E1413 Waves and Antenna I	1 <sup>st</sup> term 2020
E1311 Transmission line theory	2 <sup>nd</sup> term 2020
E1518 Waves and Antenna II	2 <sup>nd</sup> term 2021
E8400 Advanced Topics in Electric Engineering	2 <sup>nd</sup> term 2021
E1413 Waves and Antenna I	1 <sup>st</sup> term 2022
E8400 Advanced Topics in Electric Engineering	1 <sup>st</sup> term 2022
E8400 Advanced Topics in Electric Engineering	2 <sup>nd</sup> term 2022
E1413 Waves and Antenna I	1 <sup>st</sup> term 2023
E8400 Advanced Topics in Electric Engineering	1 <sup>st</sup> term 2023

### Post-Doctoral Fellow

**Oct. 2013 – Jul. 2015**

Department of Electrical and Computer Engineering  
Concordia University, Montreal, QC, Canada

- Conducted research on new investigation about linearly and circularly polarized reflectarray and folded reflectarray for millimeter wave's application (30 GHz band) based on the low profile technology.

### Lecturer (part-time)

**Sep 2013 - May 2014**

- Military Technical College, Egypt

### Assistant Professor

**June 2013 – July 2018**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

- Strategy plan member.
- Laboratories and Purchasing Committee member.
- Taught the following courses:

Course	Semester
E1518 Waves and Antenna II	2 <sup>nd</sup> term 2015
E9400 Advanced Topics in Electric Engineering	2 <sup>nd</sup> term 2015
E1413 Waves and Antenna I	1 <sup>st</sup> term 2016
E8400 Advanced Topics in Electric Engineering	1 <sup>st</sup> term 2016
E1518 Waves and Antenna II	2 <sup>nd</sup> term 2017
E8400 Advanced Topics in Electric Engineering	2 <sup>nd</sup> term 2017
E1413 Waves and Antenna I	1 <sup>st</sup> term 2018
E8400 Advanced Topics in Electric Engineering	1 <sup>st</sup> term 2018

### PhD Researcher

**Dec. 2010 – Jun. 2012**

State Key Laboratory of Millimeter wave, Southeast University, Nanjing, China

#### Duties:

- Designed and constructed planar artificial lens antennas
- Designed and constructed novels broad-band reflectarrays

### Research & Teaching Assistant

**Sep 2001- Apr 2013**

Electrical Engineering Department  
Faculty of Engineering, Benha University, Benha, Egypt

I taught the following courses as a teaching assistant:

Course	Semester
Antenna Theory	Every Year
Transmission Line Theory	Every Winter Sem.
Electromagnetic Field Theory	Every Fall
Logic Circuit	Every Year

## **Publications**

### **Journal Papers:**

- [30] Mohamed S. Sayed, Hatem M. Zakaria, Abdelhady M. Abdelhady, Abdelhalem Zekry, *Interference Mitigation in Mixed-Numerology System Using Hybrid Waveforms*, *Ain Shams Engineering Journal*, Volume 15, Issue 3, 2024, 102581
- [29] G. -L. Huang, Z. -Y. Pang, M. K. T. Al-Nuaimi, A. A. Kishk and A. Mahmoud, "A Broadband and High-Aperture-Efficiency Multilayer Transmitarray Based on Aperture-Coupled Slot Unit Cells," in *IEEE Transactions on Antennas and Propagation*, vol. 71, no. 12, pp. 9633-9642.
- [28] Rehab Ibrahim Nawar, Ashraf Yahia Hassan, Abdelhady Mahmoud Abdelhady "High gain wideband circularly polarized antenna with modified ground plane" *Indonesian Journal of Electrical Engineering and Computer Science*, Vol.32, No.1, October 2023, pp. 284~291.
- [27] Kiyani, A.; Asadnia, M.; Abbas, S.M.; Esselle, K.P.; Mahmoud, A. *Wide Dual-Band Circularly Polarized Dielectric Resonator: Innovative Integration of a Single Hybrid Feed and Thin Grounded Metasurface*. *Micromachines* 2023, 14, 1432.
- [26] Samar A. Refaat, Hesham A. Mohamed, Abdelhady M. Abdelhady, Ashraf S. Mohra "A 28/38 GHz tuned reconfigurable antenna for 5G mobile communications" *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 31, No. 1, pp: 248-258
- [25] M. K. T. Al-Nuaimi, S. -L. Zhu, W. G. Whittow, R. -S. Chen, G. -L. Huang and A. Mahmoud, "Design of Alvarez Beam Scanning Reflectarray With Inversely Proportional Focal Length," in *IEEE Antennas and Wireless Propagation Letters*, vol. 22, no. 6, pp. 1416-1420, June 2023
- [24] Xu, Y.; Mu, L.; Xu, Y.; Mahmoud, A.; Wang, Y.; Ramahi, O.M. *Wearable Directional Button Antenna for On-Body Wireless Power Transfer*. *Electronics* 2023, 12, 1758.
- [23] Khan, H.A.; Rafique, U.; Abbas, S.M.; Ahmed, F.; Huang, Y.; Uqaili, J.A.; Mahmoud, A. *Polarization-Independent Ultra Wideband RCS Reduction Conformal Coding Metasurface Based on Integrated Polarization Conversion-Diffusion-Absorption Mechanism*. *Photonics* 2023, 10, 281.
- [22] Yasin, A.; Gogosh, N.; Sohail, S.I.; Abbas, S.M.; Shafique, M.F.; Mahmoud, A. *Relative Permittivity Measurement of Microliter Volume Liquid Samples through Microwave Filters*. *Sensors* 2023, 23, 2884.
- [21] A. Kiyani, Nasimuddin N., Raheel M H., Affan A., Syed M., Karu P Esselle, and A. Mahmoud, "A Single-Feed Wideband Circularly Polarized Dielectric Resonator Antenna Using Hybrid Technique With a Thin Metasurface," in *IEEE Access*, vol. 10, pp. 90244-90253, 2022.
- [20] Ahmed A., Hijab Z., Syed M., Mohamed I. A., Gaurav V., Subhas M. and A. Mahmoud, "Compact Four-Port Circularly Polarized MIMO X-Band DRA" *Sensors*, MDPI, June 2022.
- [19] S Shrestha, H Zahra, A Kiyani, M Asadnia, SM Abbas, A. Mahmoud, "Miniaturized Wideband Antenna Prototype Operating over the Ku-Band", *Micromachines*, MDPI, 13 (3), 471, 2022
- [18] G Varshney, RS Yaduvanshi, AA Ibrahim, A. Mahmoud, "Technique of Controlling the Bandwidth of MIMO Rectangular Dielectric Resonator Antenna" *MAPAN*, 2022, 1-9.
- [17] A. Mahmoud, Mohamed I. Ahmed, G. Varshney, A. A. Ibrahim, "An array of staircase-

- shaped circularly polarized DRA," International Journal of RF and Microwave Computer-Aided Engineering, vol.31, issue 6, 2021*
- [16] A. A. Omar, A. Mahmoud, J. Choi and W. Hong, "Wideband Transmissive Polarization Rotator With In-Band Notches Enabling Multiband Operation," in *IEEE Access*, vol. 9, pp. 44751-44756, 2021.
- [15] Mourad S. Ibrahim, Hussein Attia, Qiang Cheng, A. Mahmoud "Wideband circularly polarized aperture coupled DRA array with sequential-phase feed at X-band "Alexandria Engineering Journal, Volume 59, Issue 6, 2020, Pages 4901-4908.
- [14] A. A. Omar, W. Hong, A. Al-Awamry and A. -E. Mahmoud, "A Single-Layer Vialess Wideband Reflective Polarization Rotator Utilizing Perforated Holes," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 12, pp. 2053-2056, Dec. 2020.
- [13] M. K. T. Al-Nuaimi, A. Mahmoud, W. Hong and Y. He, "Design of Single-Layer Circularly Polarized Reflectarray With Efficient Beam Scanning," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 6, pp. 1002-1006, June 2020.
- [12] J. Yang, Q. Cheng, M. K. T. Al-Nuaimi, A. Kishk and A. Mahmoud, "Broadband Folded Reflectarray Fed by a Dielectric Resonator Antenna," in *IEEE Antennas and Wireless Propagation Letters*, vol. 19, no. 1, pp. 178-182, Jan. 2020.
- [11] Jin Y., Cheng Z., Huifeng M., Wei Y., Liuxi Y., Juncheng K., Mingzheng C., Abdelhady M., Qiang C., and Tie jun C., "Tailoring polarization states of multiple beams that carry different topological charges of orbital angular momentums," *Opt. Express* 26, pp. 31664-31674, (2018)
- [10] B. Mohammadi, Abdelhady M. et al., "Enhanced Reflectarray Antenna Using Elements With Reduced Reflection Phase Sensitivity," in *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 7, pp 1334-1338, July 2018.
- [9] M. A. Moharram; A. Mahmoud; A. A. Kishk, "A Simple Coaxial to Circular Waveguide OMT for Low-Power Dual-Polarized Antenna Applications," in *IEEE Trans. on Microwave Theory and Techniques*, vol.66, Issue 1, 2017, pp.109-115
- [8] A. Mahmoud, A. A. Kishk, Z. Hao and W. Hong, "Ka-band circularly polarized reflectarray: Using a double-layers cross slot," in *IEEE Antennas and Propagation Magazine*, vol. 58, no. 4, pp. 60-68, Aug. 2016.
- [7] A.-H. Mahmoud and A. A. Kishk, "Ka-band low profile circularly polarized reflectarray," *Progress in Electromagnetics Research C*, Vol. 63, 43-51, 2016.
- [6] Mahmoud, A.-E.; Wei Hong; Yan Zhang; Kishk, A. "W-Band Mutlilayer Perforated Dielectric Substrate Lens" *IEEE Antennas and Wireless Propagation Letters*, vol.13, pp.734-737, 2014.
- [5] M. Abd-Elhady, W. Hong, Y. Zhang "A Ka-Band Reflectarray Implemented With a Single-Layer Perforated Dielectric Substrate" *IEEE Antennas and Wireless Propagation Letters*, vol.11,pp.600-603, 2012.
- [4] A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Varying Slot Lengths Strip Loading Squared Dielectric Resonator Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.3, pp. 51-55, 2012.
- [3] A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, " Dual Sized Varying Slot Lengths Loading Dielectric Resonator Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.3, pp.46-50, 2012.
- [2] A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Linearly Polarized Fed Circularly Polarized DRA Reflectarray," *International Journal of Electromagnetics and Applications*, Vol.2, No.2, pp. 11-15, 2012.
- [1] S. H. Zainud-Deen, S. M. Gaber, A. M. Abd-Elhady, K. H. Awadalla, A. A. Kishk " Perforated Dielectric Resonator Antenna Reflectarray " *ACES journal*, Vol. 26, No. 10, pp. 848-855, 2011.

### Conference Proceedings:

- [21] G. -L. Huang, M. Abdelhady, Z. -Y. Pang and J. -J. Liang, "Broadband Flat-Gain Transmitarray," 2021 International Applied Computational Electromagnetics Society (ACES-China) Symposium, Chengdu, China, 2021.
- [20] M. S. Ibrahim, A. Mahmoud, A. Awamry, Z. H. Jiang, W. Hong and M. Al-Nuaimi, "Design and Fabrication of Engineered Reflector for Wideband Linear-to-Circular Polarization Converter," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 1697-1698.
- [19] M. S. Ibrahim, A. Mahmoud, A. Awamry, Z. H. Jiang, W. Hong and M. Al-Nuaimi, "Wideband Anisotropic Unit Cell Design for Perfect Cross-Polarization Conversion," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 1831-1832.
- [18] S. Gaya, H. Attia, S. I. Sheikh, A. Mahmoud and M. S. Sharawi, "A Yagi-Uda Pattern Reconfigurable Antenna for WiMAX Application," 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2019, pp. 679-680
- [17] J. Nourinia, C. Ghobadi, B. Mohammadi, A. Mahmoud and I. Aryanian, "RCS Reduction of Reflectarray Antenna Backed with Sub-Wavelength Frequency Selective Surface," 2019 27th Iranian Conference on Electrical Engineering (ICEE), 2019, pp. 1627-1631
- [16] Mustafa K.T. A., Wei Hong, Abdelhady M., "Design of High Gain Reflectarray Antenna for 77GHz Applications", APCAP 2017, China.
- [15] Mustafa K.T. A., Wei Hong, Abdelhady M., "Design of Cross Polarization Conversion Metasurface Using Dumbbell-Like Unit Cell", APCAP 2017, China.
- [14] Maher K., Abdel Fattah F., Ahmed A., Abdelhady M., Thomas K., "Printable, High Coding Capacity Chipless RFID Tags for Low Cost Item Tagging" ICNSC 2017.
- [13] Mustafa K.T. A., Wei Hong, Gaoxi Qi, Abdelhady M., "Design of Reflective Surface for Cross Polarization Conversion and RCS Reduction" 2017 International Applied Computational Electromagnetics Society Symposium (ACES), Suzhou, 2017, pp. 1-2.
- [12] Abdelhady M.; Hussein A. "Wide-band Circularly Polarized Dielectric Resonator Antenna Array" 2017 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, San Diego, CA, 2017, pp. 1521-1522.
- [11] Abdelhady M.; Noha A., Shaymaa G., "Circularly Polarized Chamfer Shaped DRA Array" 43th National Radio Science Conference (NRSC 2017), Egypt.
- [10] Mohamed, A-E.; Kishk, A. "Aperture Coupled Strip-line Patch Transmitarray" IEEE AP-S Symposium on Antennas and Propagation and URSI CNC/USNC Joint Meeting – 2015.
- [9] Mohamed, A-E.; Kishk, A. "Folded reflectarray with dually polarized cells" Antennas and Propagation (EuCAP), 2015 9th European Conference on Antennas and Propagation. pp.1-4, 2015.
- [8] Mohamed, A.; Kishk, A. "Ka-band dual mode circularly polarized reflectarray" 2014 16<sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.
- [7] A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Electronically Tunable Dielectric Resonator Reflectarray" 2014 16th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.
- [6] Abd-Elhady. M.A, Saber H. Zainud-Deen, A.A. Mitkees, and A.A. Kishk "Dual Polarized Dual Feed Aperture-Coupled DRA Reflectarray" 29th National Radio Science Conference (NRSC 2012), Faculty of Engineering, Cairo Univ., Egypt, pp. 97-102, April 2012.

- [5] *A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "X-Band Linear Polarized Aperture-Coupled DRA Reflectarray," 2010 International Conference on Microwave and Millimeter Wave Technology, Chengdu, China, pp. 1042 – 1044, 2010.*
- [4] *A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Slot-Loading Rectangular Dielectric Resonator Elements Reflectarray ",1st Middle East Conference on Antennas and Propagation, (MECAP), Cairo, Egypt, pp. 1-3, October 2010.*
- [3] *S.H. Zainud-Deen, A.M. Abd-Elhady, A.A. Mitkees, and Ahmed A. Kishk, "Dielectric Resonator Reflectarray with Two DRA Sizes and Varying Slot Loading," 2010 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Toronto, Canada, pp.1-4, July 2010.*
- [2] *S.H. Zainud-Deen, A.M. Abd-Elhady, A.A. Mitkees, and Ahmed A. Kishk, "Design of Reflectarray Employing Rectangular Dielectric Resonator Elements of Variable Sizes," The 26<sup>th</sup> Annual Review of Progress in Applied Computational Electromagnetics, Tampere, Finland, pp. 813-816, April 26-29, 2010.*
- [1] *S.H. Zainud-Deen, Abd-Elhady, A.A. Mitkees and A.A. Kishk, "Design of Dielectric Resonator Reflectarray Using Full-Wave Analysis," 26th National Radio Science Conference (NRSC 2009), Faculty of Engineering, Future Univ., Egypt, pp. 1-9, March 2009.*

### **Conference Presentation:**

- [1] *Abdelhady M.; Noha A., Shaymaa G., "Circularly Polarized Chamfer Shaped DRA Array" 43th National Radio Science Conference (NRSC 2017), Egypt.*
- [2] *Mohamed, A.; Kishk, A. "Ka-band dual mode circularly polarized reflectarray" 2014 16th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.*
- [3] *A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Electronically Tunable Dielectric Resonator Reflectarray" 2014 16th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Victoria, Canada.*
- [4] *A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "X-Band Linear Polarized Aperture-Coupled DRA Reflectarray," 2010 International Conference on Microwave and Millimeter Wave Technology, Chengdu, China, pp. 1042 – 1044, 2010.*
- [5] *A.M. Abd-Elhady, S.H. Zainud-Deen, A.A. Mitkees and Ahmed A. Kishk, "Slot-Loading Rectangular Dielectric Resonator Elements Reflectarray ",1st Middle East Conference on Antennas and Propagation, (MECAP), Cairo, Egypt, pp. 1-3, October 2010.*
- [6] *S.H. Zainud-Deen, Abd-Elhady, A.A. Mitkees and A.A. Kishk, "Design of Dielectric Resonator Reflectarray Using Full-Wave Analysis," 26th National Radio Science Conference (NRSC 2009), Faculty of Engineering, Future Univ., Egypt, pp. 1-9, March 2009.*

### **Honors & Awards**

- 1) Education Excellence award Jan 2023- Benha University
- 2) Education Excellence award Jan 2022- Benha University
- 3) Education Excellence award Jun 2022- Benha University
- 4) Education Excellence award Jun 2021- Benha University
- 5) Education Excellence award Jan 2021- Benha University
- 6) Education Excellence award Jun 2020- Benha University
- 7) Education Excellence award Jan 2020- Benha University
- 8) Education Excellence award Jun 2019- Benha University
- 9) Education Excellence award Jan 2019- Benha University

- 10) Education Excellence award Jan 2018- Benha University
- 11) Education Excellence award Jun 2017- Benha University
- 12) Education Excellence award Jun 2016- Benha University
- 13) Education Excellence award Jan 2016- Benha University
- 14) Post-Doctoral Fellowship, Concordia University, Quebec 2013-2015
- 15) PhD Scholarship, Southeast University, Nanjing, China 2010-2012
- 16) Second rank among B.Sc. students of Faculty of Engineering, Benha University, Egypt, 2000.

### **Scientific and Professional Activities**

- Reviewer, IEEE Antennas and Wireless Propagation Letters
- Reviewer, Journal International Journal of Electronics and Communications, Elsevier.
- Reviewer, Electromagnetics Research Symposium.

### **Experiences:**

- Antennas R/D – VNA Measurements- Near-field Measurements – Far-field Measurements.
  - NSI planar pattern scanner 8 GHz to 50 GHz.
  - Terahertz spectroscopy (330 GHz).
  - Agilent PNA E8361C up to 67 GHz.
  - Antennas Simulation packages: CST Microwave Studio- HFSS
  - Educational Undergraduate projects (9 years).
  - High gain Broad-band planar arrays.
  - Low Profile Reflectarray (CP and LP).
  - Folded Reflectarray.
  - Scanning Reflectarray.
  - Broad-band CP arrays (DRA and low-profile structures).
  - Wide-band Flat Gain Transmitarray.
  - Ridge Gap Waveguides.
  - Printed Ridge Gap Structures.
  - Slim THz Lens.
  - Artificial Flat Lens.
  - Periodic Structures.
  - Passive RFID Tags.
  - Dual Polarized OMT Horns.
  - Flat Panel Antennas.
  - Base station antennas design (printed circuit and whole metallic (sub 6GHz band, 698-
-

960-1710-2690MHz) (+45/-45 2G, 3G and LTE base station.)

- Polarization converter structure.
- RCS structures.
- Reconfigurable antennas.

### **Research Interest:**

Artificial Lens-Transmitarray- Reflectarray- Folded reflectarray- Broad-band High Gain Antennas- Compact Broad-band compact CP Antennas- THz Lens- UWB Antennas- Mutual coupling reduction- 3D FSS- Active RFID- Low Profile Antennas- 3D Printing Antennas Artificial Lens- Textile Antenna, Dual Polarized OMT Horns , An implanted Antennas on human tissues for biomedical applications and reflective surface.

### **Personal Information**

- **Nationality: Egyptian**
- **Marital status: Married with children**

### **International collaborations:**

- **Concordia University, Canada (Prof. Ahmed A. Kishk)**
  - **Waterloo University, Canada (Prof. Omar Ramahi)**
  - **Bohang University, Korea (Prof. Wonbin Hong)**
  - **Macquarie University, Australia (Prof. Syed Abbas)**
  - **University of Technology Sydney, Australia (Prof. Karu Esselle)**
  - **Southeast University, China (Prof. Wei Hong)**
  - **Foshan University, China (Prof. Guan-long Huang)**
  - **King Fahd University of Petroleum and Minerals, KSA (Prof. Hussein Attia, Prof. Ahmed Abdelmotaleb)**
  - **Taibah University, KSA (Prof. Hattan Abou tarboush)**
  - **Al-Jouf University, KSA (Prof. Meshari Alanazi)**
  - **Prince Sultan University, KSA (Prof. Mourad Said)**
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