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**TAISIR H ISMAIL ALGHANIM**

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Electrical Engineering/ Communication

**Academic Rank: Professor****Membership:**

1	Jordan Engineers Association

**Qualifications:**

1	<b>Ph.D.</b> in Electrical Engineering from King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia, 1991
2	<b>M.Sc.</b> in Electrical Engineering from KFUPM , Dhahran, Saudi Arabia, 1985
3	<b>B.Sc.</b> in Electrical Engineering from University of Jordan, Amman, Jordan, 1981

**Professional Objective(s):****Teaching Experience:**

#	From	to	
1	2014-	till now	Professor in Elect Engg Dept., Zarqa University, Amman, Jordan
2	2012	2014	Professor in Electrical and Computer Engg Dept. , King Abdulaziz University, Kingdom of Saudi Arabia
3	2006	2012	Professor in Elect Engg Dept., Al-Ahliyya Amman University, Amman,

			Jordan
4	1998	2006	Associate Professor in Elect Engg Dept., Al-Ahliyya Amman Univ, (Except the period, Oct. 2001-Jan. 2002, at the Hashemite University)
5	1995	1998	Assistant Professor in Elect Engg Dept., Al-Ahliyya Amman Univ
6	1991	1995	Assistant Professor in Elect Engg Dept., Philadelphia University, Amman, Jordan
7	1985	1991	Lecturer, KFUPM, Dhahran, Saudi Arabia
8	1982	1985	Research Assistant, KFUPM, Dhahran, Saudi Arabia

**Publications:**

#	Authers	Title	Publisher	Year/ Issue (Vol/No)
1.	T. H. Ismail and M. M. Dawoud	<i>Null steering in phased arrays by controlling the element positions.</i>	IEEE Trans. Antennas Propagat	39, pp.1561-1566, Nov. 1991
2.	M. M. Dawoud and T. H. Ismail	<i>Experimental verification of null steering by element position perturbations</i>	IEEE Trans. Antennas Propagat	vol. 40, pp.1431-1434, Nov. 1992
3.	M. J. Mismar and T. H. Ismail	<i>Null steering using minimax by controlling only the currents' amplitudes</i>	International Journal of Electronics	vol. 78, pp. 409-415, Feb. 1995
4.	M. J. Mismar and T. H. Ismail	<i>Eigen-approach for wide band interference suppression</i>	International Journal of Electronics	vol. 82, no. 6, pp. 655-662, June 1997
5.	M. J. Mismar and T. Ismail	<i>Linear array pattern synthesis with multiple broad nulls using partial amplitude control</i>	Journal of King Saud University	vol. 9, [Engineering Sciences No. 2], pp. 239-250, 1997
6.	T. H. Ismail, A. M. Mustafa, and M. J. Mismar	<i>Spectral estimation and resolution of closely spaced radar target scatterers,</i>	International Journal of Electronics	vol. 83, no. 3, pp.417-427, Sept. 1997
7.	T. H. Ismail and M. J. Mismar	<i>"Wide band interference suppression using Linear</i>	Dirasat - Natural and Engineering	vol.24, no.3pp.453-

		<i>programming</i>	Sciences,	460, October 1997
8.	M. J. Mismar and T. H. Ismail	<i>Partial control for wide band interference suppression using eigen-approach</i>	IEEE Trans. Antennas Propagat	vol. AP-46, no. 4, pp.600-602, April 1998
9.	T. H. Ismail, M. J. Mismar, and M. M. Dawoud	<i>Linear array pattern synthesis for wide band sector nulling", ,</i>	Progress In Electromagnetics Research,	PIER 21 pp. 91-101, 1999.
10.	M. J. Mismar and T. H. Ismail	<i>Pattern nulling by iterative phase perturbation</i>	Progress In Electromagnetics Research	PIER 22, pp. 181-195, 1999
11	T. H. Ismail and M. J. Mismar	<i>Null steering with arbitrary Phase Perturbations using dual phase shifters</i>	Journal of Electromagnetic Waves and Applications	Vol. 13, No.8, pp. 1021-1029, 1999
12	M. J. Mismar and T. H. Ismail	<i>Null Steering with element Failures Using Partial Controlled Linear Arrays</i>	Electromagnetics	Vol.23, No. 5 , pp. 445-454, July 2003
13	D. I. Abu-Al_Nadi, M. J. Mismar, and T. H. Ismail	<i>Genetically Evolved Phase-Aggregation Technique for Linear Arrays Control</i>	Progress In Electromagnetics Research	PIER 43, pp.287-304, 2003
14	T. H. Ismail, D. I. Abu-Al_Nadi, and M. J. Mismar	<i>Phase-only control for antenna pattern synthesis of linear arrays using Levenberg-Marquart algorithm</i>	Electromagnetics,	vol. 24, no. 7, pp.555-564 , 2004
15	D. I. Abu-Al_Nadi, T. H. Ismail, and M. J. Mismar	<i>Interference Suppression by Element Position control of Phased Arrays Using LM Algorithm</i>	Int. J. Electron. Commun. (AEÜ)	vol. 60, pp.151-158, 2006
16	M. J. Mismar, T. H. Ismail, and D. I. Abu-Al_Nadi	<i>Analytical Array Polynomial Method for Linear Antenna Arrays with Phase-Only Control</i>	Int. J. Electron. Commun (AEÜ),	vol. 61 pp.485-492, 2007
17	M. A. Taha, D. I. Abu-Al_Nadi, and T. H. Ismail	<i>Maximum Likelihood Estimation of the double directional parameters in the MIMO communication system using the Particle Swarm Optimization</i>	Electromagnetics	vol. 28, no. 7, pp.401-410, 2008
18	Z. Hamici and T. H. Ismail	<i>Digital Amplitude Control For Interference Suppression Using</i>	Progress In Electromagnetics	Vol. 11, 21-38, 2009

		<i>Immunity Genetic Algorithm</i>	Research C	
19	Taisir H. Ismail and Zoubir Hamici	<i>Array Pattern Synthesis using Digital Phase Control by Quantized Particle Swarm Optimization</i>	IEEE Trans. Antennas Propagat	vol. AP-58 no. 6, pp.2142-2145, June 2010
20	D. I. Abu-Al_Nadi, T. Ismail, H. Al-Tous, and M. J. Mismar	<i>Design of Linear Phased Array for interference suppression using Array Polynomial Method and Particle Swarm Optimization</i>	Springer, Wireless Personal Communications	Vol.63 (2), 501-513, 2012
21	M. J. Mismar and T. H. Ismail	DOA and Power Estimation by Controlling the Roots of the Antenna Array Polynomial	Progress In Electromagnetics Research M	Vol. 46, 193–201, 2016

**Books:**

#	Book Title	Publisher	Year
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**Translated Books:**

#	Book Title	Publisher	Year
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**Atricles:**

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## Conferences:

#	Paper Title	Organizing Institution	Conference
.١	Dia Abu-Al-Nadi, M. J. Mismar and T. H. Ismail, "An Eigen-Approach for Estimating the Direction-of-Arrival of Unknown Number of Signals",)		18th International Conference on Electrical, Computer, Electronics and Communication Engineering, (ICECECE 2016
.٢	<i>DOA Estimation by Controlling the Nulls of the Antenna Array Factor</i> ", Proceedings of the		International Conference on Electrical and Electronic Engineering, Telecommunication Engineering, and Mechatronics (EEETEM 2015), Kuala Lumpur, Malaysia, September 8-10, 2015
.٣	<i>Synthesis of Linear Array and Null Steering with minimized Side-Lobe Level Using Particle Swarm Optimization</i> ",		European Conference on Antenna and Propagation EuCAP2010. Barcelona Spain, 12-16 April 2010
.٤	<i>Reconfigurable Array by Digital Phase Control using Particle Swarm Optimization</i>		", 9 <sup>th</sup> IEEE International Symposium on Signal Processing and Information Technology (ISSPIT09), in Ajman, United Arab Emirates (UAE), 14-16 December, 2009. pp.501-506
.٥	<i>Optimization of Thinned Arrays Using Stochastic Immunity Genetic Algorithm</i> ",		9 <sup>th</sup> IEEE International Symposium on Signal Processing and Information Technology (ISSPIT09), in Ajman, United Arab Emirates (UAE), 14-16 December, 2009. pp.378-383
.٦	<i>Pattern Synthesis with Phase-Only Control Using Array Polynomial Technique</i>		". IEEE International Conference on Signal Processing and Communication (ICSPC07), in Dubai, United Arab Emirates (UAE), 24-27 November, 2007. pp.444-447



.٧	<i>Dual Phase Control for Null Steering using Beam Space Method",</i>		14 <sup>th</sup> International Conference on Computer Theory and Applications ( <b>ICCTA 2004</b> ), Alexandria, Egypt, (the paper appears as a soft copy on the conference's CD), September 28-30, 2004
.٨	<i>Interference Suppression Using Phase-Only Controlled Linear Arrays With Element Failures",</i>		7 <sup>th</sup> International Conference on Intelligent Engineering Systems ( <b>INES 2003</b> ), Assiut-Luxor, Egypt, pp.713-715, March, 2003
.٩	<i>Pattern Synthesis With Broad Nulls Using Partial Weighted Eigen-Approach",</i> First Middle East Conference on Simulation and Modeling,		<b>MESM'99</b> , A Publication of the Society for Computer Simulation, Amman, Jordan, pp.52-55 , March 1999.
.10	<i>New method of null steering by element position perturbations",</i>		Symposium on Antenna Technology and Applied Electromagnetics, ANTEM'90, Winnibeg, Canada, PP.123-128, August 1990

## Supervision of Theses:

#	Year	University	Thesis Title	Student Name
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## Community Service Activities

#	Duartion	Activity
1	2015- till now	Editorial board member of the "Jordanian Journal of Computers and Information Technology", (JJCIT). (Sponsored by Ministry of Higher Education, Jordan)
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### Personal Information

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Place and Date of Birth	Sarra, Jordan 1957			
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