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Electrical and Computer Engineering.

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المؤهلات الأكاديمية

Ph. D. Electronics، INPG /Grenoble/France ، 1982

M. Sc. Electronics،، INPG /Grenoble/France ، 1979

B. Sc. Electronics and Communications، Mosul University, Iraq، 1975

أنشطة التدريس

ELECTRONICS I، ELECTRONICS FUNDAMENTALS RELATED TO ELECXTRONICS DEVICES , DIODE TRANSISTORS AND INTEGRATED CIRCUITS. PRACTICAL APPLICATION ABOUT THE REGULATED DC POWER SUPPLY AND THE AMPLIFIER APPLICATIONS، MANY SEMSTERS

ELECTRONICS II، CONTINUATION OF ELECTRONICS I , IT MANAGE WITH AMPLIFIER FREQUENCY RESPONSE AND APPLICATIONS OF POWER AMPLIFIERS . tYPES AND ANLYSIS OF FEEDBACK SYSTEMS ARE ALSO CONSIDERAED ، MANY SEMESTERS

DIGITAL ELECTRONICS، SWITCHING CHARACTERISTICS OF THE ELECTRONICS DEVICES , DIGITAL APPLICATIONS OF SOME INTEGRATED CIRCUITS , ANALOG TO DIGITAL AND DIGITAL TO ANALOG CONVERSION SYSTEMS AND APPLICATIONS . MEMORY STRUCTURE AND ORGANIZATIONS ARE ALSO CONSIDERED، MANY SEMESTERS

الأنشطة البحثية

الاهتمامات البحثية ـ

Electronics and Microelectronics

Solar Energy Systems

المنشورات ـ

مقال:

1. COMMUNICATION-COMPUTER-CONTROL (3C) SYSTEM FOR PROMOTING DEMAND SIDE“ 2018 MANAGEMENT”, International Journal of Science & Engineering Development Research , Volume 3 . , Issue 4 , April 2018 ,pp 21-28

2. Load Forecasting for Power system Planning and Operation using Artificial Neural“ 2012 Networks at Al Batinah Region “ Journal of Engineering Science & Technology (JESTEC) School of Engineering, Taylor’s Volume 7, Issue 4, Page 426 – 574

3. BJT Fabrication using Laser Assisted Spin-On-Doping Technique”, Journal Of Electron“ 2008 Devices, France, Vol.6, 2008, pp. 197-202

4. A simple approach for Characterizing the Pattern of an Array Antenna``, Engineering and 2006 Technology Journal Vol.2 No.2, Published by i- manager ,India

5. Nonvolatile Memory Structures Using Silicon Monoxide Layer”, Brunie Darussalam`` 2003 , Journal of Technology and Commerce, Vol.3, No.1

6. Characterization of In-doped CdTe thin film “ ,Mu`tah Journal Vol.11 No.5, p.207-218 ,” 1996 Mu`tah University –Jordan

7. Electrical and optical characteristics of MIOS and MIMOS structures “, Mu`tah Journal 1994 Vol.9 ,No.3 , ,p. 271-284 ,Mu`tah University – Jordan

8. Charge trapping in MIOS memory structures under positive and negative biasing” 1994 International Journal of Electronics ,Vol.76 ,No.2 , p. 246-255

9. Thin film CdS diodes and their space charge injection behavior “, Journal of Engineering 1992 and Technology Vol.11 No.4, University of Technology, Iraq

10. Information storage capability of thin film devices “, Journal of Engineering and” 1991 .Technology , Vol.5 annex No.10,University of Technology –Iraq

11. Substrate bias generator, its importance and characteristics in VLSI circuits “, Modeling,” 1988 Simulation and Control, A, Vol. 15, No.4

12. Computer Aided Layout design for integrated circuit fabrication “ ,Symposium on” 1986 industrial applications of micro and personal computers ,Scientific Research Council, Baghdad –Iraq

13. Optimal performance of HMOS VLSI Circuits “ ,Microelectronics No.6 Vol.13“ 1982

كتاب:

1. (Instrumentations and Measurements (E-Learning Course 2005

2. Semiconductor Devices, Physics and Technology/ Translation to Arabic 1987

مؤتمر أو ورشة:

1. FULLY AUTOMATED MOTION CONTROLLED STREET LIGHTING SYSTEM” Eighth National“ 2018 Symposium on Engineering Final Year Project, College of Engineering, University of Nizwa

.2 Maximizing the Effectiveness of Solar Energy System by the Integrated Passive Cooling“ 2018 Strategies of Nizwa Eco-House” International Conference for Sustainable Design of the Built (Environment (SDBE 2018

.3 Effects of Solar Panel Position and Environmental Conditions on Solar Energy “ 2015 Production” Conference on energy Challenges in Oman ECO’2015 Salalah, Sultanate of Oman

.4 Solar Energy at University of Nizwa’s Eco House: Analysis and Measurement” Conference“ 2015 on energy Challenges in Oman ECO’2015 Salalah, Sultanate of Oman

.5 SMOKE DETECTOR AND FIREFIGHTING SYSTEM”, Forth National Symposium on“ 2014 .Engineering Final Year Project, College of Engineering, University of Nizwa

.6 DESIGN AND IMPLEMENTATION OF UNINTERRUPTIBLE POWER SUPPLY (UPS)” Third“ 2013 National Symposium on Engineering Final Year Project, College of Engineering, University of .Nizwa

.7 DESIGN AND IMPLEMENTATION OF AN H-BRIDGE CIRCUIT TO CONTROL DIRECTION OF“ 2013 DC MOTOR”, Third National Symposium on Engineering Final Year Project, College of Engineering, .University of Nizwa

.8 On The Large-Signal Modeling Of AlGaN/GaN Devices Using Genetic Neural Networks”“ 2012 Proceedings Of The 7th European Microwave Integrated Circuits Conference

.9 Dynamic Short Distance Estimation Using Ultrasonic” IEEE Business Engineering and“ 2012 ,Industrial Applications Colloquium 2012

.10 Load forecasting for Power System Planning Using Fuzzy-Neural Networks”“ 2012 International Conf. of Computational Intelligent Systems www.iaeng.or / WCE2012.ICCIIS_S

.11 A Genetic Neural Network Modeling of GaN HEMTs for RF Power Amplifiers Design” IEEE 2011 International Conference on Microelectronics, Paper ID: 94, Tunisia

.12 MIOS Memory Devices and Their Charge Storage Properties” 2010 International 2010 Conference on Electronic Devices, Systems & Applications, ICEDSA, 12-13 April 2010, Kuala Lumpur ,Malaysia

.13 Design of Engineering Curriculum Considering sustainable Development Role”“ 2010 .International conference on Engineering Education ICEE , 18-22 July 2010 , Poland

.14 Design and implementation of RFID system`` Fifth International multi conference on `` 2008 ,systems signals and devices IEEE SSD08

.15 Thin Base Bipolar Transistor Fabrication Using Excimer Laser Assisted Spin-on Doping `` 2006 Techniques`` Sixth International Philadelphia Engineering Conference ,IPEC2006 , Amman Jordan

.16 Fabrication and Characterization of Double Oxide High Voltage High Temperature Poly-Si 2006 Thin Film Transistors`` Fourth conference on Scientific Research Outlook & Technology Development in the Arab World (SRO4), Damascus, Syria

.17 Wireless Smoke Detector`` Fourth conference on Scientific Research Outlook &`` 2006 .Technology Development in the Arab World (SRO4), Damascus, Syria

.18 An Efficient Visible and Near IR Photo detector” ,Third Arab Symposium on Scientific 2004 research and Technological Development in the Arab Word ,Riyadh ,Kingdom of Saudi Arabia

.19 Opto-thermal characterization of CdS/CdTe Structures”, Sharjah Solar Energy 2001 .Conference, , University of Sharjah, UAE

.20 Optimum design of 1Mbit SRAM circuit using sub micron CMOS technology “ ,the 2nd 2000 Middle East Symposium on Simulation & Modeling MESM 2000 , Philadelphia University , Amman –Jordan

.21 Programming characteristics of Al/SiO/SiO2/Si Memory devices “, 3rd Electrical 1999

.Engineering Conference, , Mu`tah University, Jordan

22. 1998 International Electrical and Electronic Engineering Conference JIEEEC 98, ,Amman –Jordan.

23. 1998 the Second Scientific Conference on Computer and their applications, , Amman-Jordan.

24. 1997 International Annual Conference of the University of Batna , , Algeria

25. 1995 Effect of substrate temperature and annealing on the electronic properties of CdTe thin film “ ,First Mosul Conference on Electrical Engineering University of Mosul , Mosul –Iraq.

26. 1993 Conduction mechanism in double insulated layer fabricated on epitaxial GaAs “, 11th Iraqi Engineering Conference, Baghdad –Iraq.

27. 1991 Thin film RCG notch filter modeling “ ,Mediterranean Electro-technical Conference Melecon ,91 IEEE Yugoslavia

28. 1989 Uniformity and Thermal characterization of Al-CdS-Al structures at different“ temperatures “ ,Fifth Scientific Conference ,Scientific Research Council , Baghdad –Iraq.

29. 1987 Effect of deposition conditions on the optical properties of CdS Thin Film “International`` AMSE conference on modeling and simulation, Karlsruhe (west Germany), Vol.2A

30. 1987 Electrical properties variation of CdS thin film with deposition conditions and film`` thickness “ ,First regional Symposium on Material Science in the Arab Status, , Alexandria University, EGYPT

31. 1986 Thermal analysis of VLSI HMOS circuits “ Forth scientific conference ,Scientific Research” Council ,.Baghdad-Iraq.

32. 1985 Scaling down effect on the performances of VLSI HMOS circuits “ Iraqi Conference on Engineering Baghdad-IRAQ .

العضوية في الهيئات المهنية

2018–الآن: IAENG INTERNATIONAL ASSOCIATION OF ENGINEERS

2017–الآن: (International Computer Science and Engineering Society (ICSES

1976–الآن: IRAQI ENGINEER ASSOCIATION

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