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Professor M. A. FKIRIN

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Education:

- Aug. 1986: Ph. D. (Automatic Control and Computer Engineering) ,
Department of Electronic and Electrical Engineering, Faculty of
Engineering and Science, Birmingham University, England.
Title: Identification of time-varying dynamic systems.
- June 1984: M.Sc.Q. (Automatic Control and Computer Engineering) ,
Department of Electronic and Electrical Engineering, Faculty of
Engineering and Science, Birmingham University, England.
Title: Identification of dynamic systems.
- Oct. 1980: M.Sc. (Systems and Automatic Control Engineering),
Department of Automatic Control and Measurements, Faculty of
Electronic Engineering, Menoufia University, Menouf, Egypt.
Title: Identification of nonlinear systems.
- May 1976: B.Sc. (Industrial Electronics Engineering),
Department of Automatic Control and Measurements, Faculty of
Electronic Engineering, Menoufia University, Menouf, Egypt.
Final year project entitled: Computer aided design of electronic circuits.

Current Position:

- Professor: 17 Dec. 1995 - Now
Department of Industrial Electronics and Control Engineering,
Faculty of Electronic Engineering, Menoufia University, Menouf, Egypt.

Previous Work Experiences

- Head of Department: Aug. 2006 – Aug 2012
Head of Department of Industrial Electronics and Control Engineering,
Faculty of Electronic Engineering.
- Associate Professor: 20 Jan. 1991 - 16 Dec. 1995
Department of Industrial Electronics and Control Engineering,
Faculty of Electronic Engineering, Menoufia University, Menouf, Egypt.
- Assistant Professor: 1 Oct. 1989 - 24 July 2001
Department of Computer Science, College of Management Sciences and
Planning, King Faisal, University, Kingdom of Saudi Arabia.

- Lecturer: 21 Dec. 1986 - 19 Jan. 1991
Department of Industrial Electronics and Control Engineering,
Faculty of Electronic Engineering, Menoufia University, Menouf,
Egypt.
- Research Fellow: 16 Jan. 1982 - 6 Aug. 1986
Department of Electronic and Electrical Engineering, Faculty of
Engineering and Science, Birmingham University, England.
- Assistant Lecturer: 29 Nov. 1980 - 20 Dec. 1986
Department of Automatic Control and Measurements. Faculty
of Electronic Engineering, Menoufia University, Menouf, Egypt.
- Demonstrator: 13 June 1977 - 28 Nov. 1980
Department of Automatic Control and Measurements, Faculty of
Electronic Engineering, Menoufia University, Menouf, Egypt.

SCIENTIFIC PRIZES:

- 1) Prize of Young Arab Scientists, The Hashemite Kingdom of Jordan, in
Mathematics and Computer Science, awarded 1991. In appreciation of his
(Professor Fkirin) contribution to the development of the Arab scientific community
and the ingenuity of his research and its scientific value.
- 2) First Prize of the Third International Symposium of Date Palm, Kingdom of Saudi
Arabia, 17-20 January 1993, for the paper entitled:
"Dynamic programming for optimal identification of date palm production
systems".

Research Interest:

Automatic Control and Computer Systems:

- 1- Online identification and prediction.
- 2- Adaptive control.
- 3- Real time computer control.
- 4- Neural networks and fuzzy control systems.
- 5- Computer network systems.
- 6- Software and hardware computer systems.

Recent Publications:

59 Publications : 57 Papers and 2 Books (30 Publications as a single author)

- EL-Bardini M. A., Elsheikh E. A. and Fkirin M. A., "Real time object Tracking Using Image Based Visual Servo Technique", International Journal Of computer Science & Emerging Technologies, 2011 Volume 2 issue 2 , PP. 252-257.
- El-Bardini M. A., Fkirin M. A., and Abd-Elhaleem S. "Fuzzy controller design for DC motor using Ant colony optimization algorithm", Journal of Engineering Sciences, Assiut University, 2012, Volume 40 issue 3, PP. 899-911.
- Badawi S. M. , Fkirin M. A., Aziz.N.A, "HUMAN BRAIN ANALYSIS: CHIARI MALFORMATION DIAGNOSIS BY ELECTROENCEPHALOGRAPH", AI-AZHAR ENGINEERING TWELFTH INTERNATIONAL CONFERENCE, 25-

27 December 2012, Al-Azhar University Engineering Journal, JAUES, Vol.7 , No.3, Dec.2012. pp.304-311.

- Mohamed. S.A., Helmi. A.K., Fkirin.M.A., Badwai.S.M. “Subpixels Accuracy Analysis of Phase Correlation Shift Measurement Methods Applied to Satellite Imagery”, (IJACSA) International Journal of Advanced Computer Science and applications, Vol.3, No.12, 2012, pp 202-206.
- Badawi S. M., El-Sherbeny.A.S , Elsaadany A, Fkirin M. A. “Retinal Blood Vessel Image Segment Using Rotating Filtration to help in Early Diagnosis and Management Diabetic Retinopathy”, 30th NATIONAL RADIO SCIENCE CONFERENCE (NRSC 2013), (IEEE 2013). pp 542-548 .
- Mohamed. S.A., Helmi. A.K., Fkirin.M.A., Badwai.S.M. “Subpixels Accuracy Analysis of Phase Correlation Shift Measurement Methods Applied to Egyptsat-1 Satellite”, 30th NATIONAL RADIO SCIENCE CONFERENCE (NRSC 2013), (IEEE 2013). pp.347-358
- Elsrogy.M.Walaa ,Fkirin M. A., Moustafa Hassan.M.A., “Speed Control of DC Motor Using PID Controller Based on Artificial Intelligence Techniques”, The 2013 International Conference on control Decision and Information Technologies (CoDIT’13), May 6-8, 2013 at Hammamet, Tunisia (IEEE).
- M.A.Fkirin, N.A.Aziz, S.Badawy, “Human Brain Signal Analysis: Juvenile Myoclonic Epilepsy Diagnosis by Electroencephalograph”, *IPASJ International Journal of Electronics & Communication (IJEC)* . Volume1, Issue5, Dec2013.
- M.A.Fkirin, S.Badawy, El saadany A, A.S.El-Sherbeny, “Early Detection of Diabetic Retinopathy in Fundus Images Using Image Filtration”, *International Journal of Scientific and Engineering Research (IJSER)*. Volume5, Issue1, January 2014 Edition (ISSN 2229-5518).
- Ebrahim Abd El-Hamid Mohamed Ramadan, Mohammad El-Bardini, Nabila M.El-Rabaie, Mohamed A.Fkirin , “Embedded system based on a real time fuzzy motor speed controller”, *Ain Shams Engineering Journal*, April2014.
- S.A.Mohamed., A.K.Helmy.,M.A.Fkirin.,S.M. Badway. “Proposed Method to Measure Sub Pixel Shift in Egyptsat-1 Aliased Image”, *International Journal of Computer Applications (0975-8887)*, Vol 95, No.10, June 2014, pp 4-10.
- M.A.Fkirin.,S.M. Badway., A.K.Helmy, S.A.Mohamed. “Measuring Sub pixel Erratic Shift in Egyptsat-1 Aliased Images: Proposed Method”, *ICGST-GVIP Journal*, ISSN 1687-398X , Vol.14, Issue 2,Delaware,USA, December 2014, pp 9-25.
- Fkirin M. A., Badawi S. M., and Abdo S., “Change detection using neural network in Toshka area”, Submitted for publication in *IEEE Trans. Signal Processing*, to appear in 2016.

Books:

Fkirin, M. A., “*Computer Fundamentals*”, Dar El-Rateb Al-Jamiah: Beirut, Lebanon, 1993.

Fkirin, M. A., “*Computer Operating Systems*”, Mareg Publishing House: Riyadh, Kingdom of Saudi Arabia, 1995. (First scientific arabic book in the field of “internal technology of o