Name	**Associate Prof. Hamdy Kamal Abdel-Rahman Al-Moniar**
Photo	
Degree	**Associate Professor of Soft Computing and Embedded Systems**
Department	**Electrical Engineering Department**
General Specialization	**Computer and Automatic Control**
Specialization	**Soft Computing**
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Qualifications	**Ph.D. in Electrical Engineering, from Faculty of Electrical Engineering, Czech Technical University, Czech Republic, 2001.**
	M.Sc. Master Scientific of Automatic Control, from Faculty of Engineering, Mansoura University, Egypt, 1996.
	B.Sc. of Electronic Engineering from Menofia University in May, 1991, Egypt.
Research interests	**Soft Computing, Image Processing, Signal Processing, Modeling, Artificial Intelligence and Renewable Energy**
Recent Publications	1. Hatem M. Elattar, Hamdy K. Elminir and A.M. Riad, Conception and Implementation of a Data Driven Prognostics Algorithm for Safety Critical Systems, Software Computing, 2018. Impact Factor: 2.472 Thomson Reuters. 2. Xiaohui Y., Mohamed Elhoseny, Hamdy K Elminir, A.M. Riad. A genetic algorithm-based, dynamic clustering method towards improved WSN longevity. Journal of Network and Systems Management. Vol. 2, pp. 21–46, 2017. Impact Factor: 1.588 Thomson Reuters. 3. M. Elhoseny, X. Yuan, Hamdy K. Elminir, A.M. Riad. An energy efficient encryption method for secure dynamic WSN. Security Comm. Networks. Vol. 9, pp. 2024 – 2031, 2016. Impact Factor: 1.067 Thomson Reuters. 4. M. Elhoseny, X. Yuan, Z. Yu, C. Mao, Hamdy K. Elminir, A.M. Riad. Balancing Energy Consumption in Heterogeneous Wireless Sensor Networks using Genetic Algorithm. IEEE Communications letters, Vol. 19, 2015. Impact Factor: 1.988 Thomson Reuters. 5. Z. Al-Mostafa, Hamdy K. Elminir, A. Abulwf, S. Al-Shehri, F. Alshehri, "Evaluation of Erythemal ultraviolet solar radiation over Saudi Arabia", Solar Energy, Vol. 113, pp. 258–271, 2015. Impact factor: 4.018 Thomson Reuters 6. S.M. Shohieb, Hamdy K. Elminir, "SignsWorld Facial Expression Recognition System (FERS)". Intelligent Automation and Soft Computing, Vol. 21, Issue 2, pp. 211 -233, 2015. Impact Factor: 0.644 Thomson Reuters.
Conferences	1. M Elhoseny, X Yuan, HK Elminir, AM Riad. Extending self-organizing network availability using genetic algorithm. Computing, Communication and Networking Technologies (ICCCNT), 2014.

Scientific Awards	1. Scientific publishing awards from the head of Kafr El-Sheikh University in April, 2016 and April, 2017. Egypt. 2. Certificate of merit from the minster of higher education and scientific research in the 4th conferences of the national research institute of astronomy and geophysics 1993, Egypt. 3. The best postgraduate student award from the head of Czech Technical University in 2000, Czech Republic.
Position	1. Associate professor of Renewable Energy from national research institute of Astronomy and geophysics, Feb. 2008. 2. Associate professor of Soft Computing from committees for promotion of faculty members, Supreme Council of Universities, May 2018.
Academic Supervision	Dr. Hamdy K. Al-Moniar is a Co-Supervisor of a number of theses some of it was defensed and the other in progress, as cooperation with the faculties of engineering and Faculty of Computers and Information Sciences at Mansoura University. 1. Hatem El-Attar. PhD. in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. On-Board Prognostics System For Decision Support. Defense: Jan 2019. 2. Mohammed Elhoseny. PhD. in Computer Science, Faculty of Computers and Information Sciences, Mansoura University. Secure Routing in Wireless Sensor Networks, Defense: 14 Jan. 2016. 3. Lobna Abu El-Magd. PhD. in Computer Science, Faculty of Computers and Information Sciences, Mansoura University. Effective computational Model for Real Spoken Dialogue management System. Defense: 21 July 2014. 4. Sama M. Shoaib. PhD. in Computer Science, Faculty of Computers and Information Sciences, Mansoura University. An interactive system improving the deaf for person's communication. Defense: 31 July 2014. 5. Sameh Abdel-El-Ghany. PhD. in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Enhanced Image Retrieval System based on Semantic Content. Defense: 29 July 2013. 6. Sahar Sabbeh, PhD in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Adaptation of Web Operating System Using Semantic Web Techniques. Defense: 26 July 2011. 7. Ahmed El-Halawany. PhD. in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. New Approach for Web Applications Reusability via Web Engineering. Registration: 2010. 8. Aya G. Zaid. Masters in Computer Science, Faculty of Computers and Information Sciences, Mansoura University. Video Retrieval using level Semantic High concepts. Defense: 2013. 9. Hatem El-Attar. Masters in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Intelligent Information System for Turbine Engines Life Time Forecasting. Defense: 27 April 2011. 10. Mohamed El-Kholy. Master in Environmental Engineering, Faculty of Engineering, Mansoura University. Future scenario of stratospheric ozone over Egypt using artificial intelligence techniques. Defense: 2011. 11. Taha Ragab, Masters in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Converged Networks Security. Defense: 31 Jan. 2010. 12. Mohamed M. Masters in Communications Engineering, Faculty of Engineering, Mansoura University. Implementation of automated galaxy classification algorithms. Defense: 2010. 13. Ahmed El-Halawany, Masters in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Unified Modeling Language based Web Engineering. Defense: 27 December 2009. 14. Sahar Sabbeh, Masters in Information Systems, Faculty of Computers and Information Sciences, Mansoura University. Web Mining for Web Personalization. Defense: 2008.
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Scientific Reviewer	Hamdy Al-Moniar is considered as a reviewer at international journals, transactions, and conferences with completely review score of (40) articles. 1. IEEE communication letters, Elsevier. 2. Computers and Electrical Engineering, Elsevier. 3. Journal of geographical information science. 4. Journal of solar energy, Elsevier. 5. Science of the total environment, Elsevier. 6. Energy conversion and management, Elsevier. 7. International journal of energy, Elsevier. 8. Atmospheric research, Elsevier. 9. IET Renewable power generation, Inderscience Publishers. 10. Journal of environment and waste management. 11. Environmental monitoring and assessment (EMAS), Springer.
YouTube educational Chanel	**https://www.youtube.com/channel/UCRR9SHr-gGBGIMZRS5tvU4w/playlists**
Subjects of Bachelor	**Automatic Control of Dynamic Systems, Digital Control of Dynamic Systems, Digital Circuits Design, Microprocessor and Embedded Systems, Sensors and its industrial application, Computer Organization, Computer Architecture, Electronics Circuits.**