

## Hany Mohamed Hasanien

### Curriculum Vitae

#### 1. PERSONAL DATA:

##### a) Address:

Electrical Power and Machines Department

Faculty of Engineering

Ain Shams University

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Egypt

##### b) Education:

DEGREE	PLACE	DATES	COMMENTS
Joint Research	Kitami Institute of Technology, Kitami, Japan.	June 2008-2011	Renewable energy systems and control of electric drives. Advisors: Prof. Junji Tamura
PhD Electrical Engineering	Ain Shams University, Cairo, Egypt	July 2007	Thesis: Speed control of axial laminations switched reluctance motor Advisors: Prof. Mohamed A. Badr
M.Sc. Electrical Power and Machines Engineering	Ain Shams University, Cairo, Egypt	July 2004	Thesis: Performance enhancement of switched reluctance motor Advisors: Prof. Mohamed A. Badr Overall average: 95%
B.Sc. Electrical Power and Machines Engineering	Ain Shams University, Cairo, Egypt	July 1999	Thesis: Power system planning for a new developing area Advisors: Prof. Soliman El Debiky Overall average: 98%

**c) Employment:**

<b>POSITION</b>	<b>PLACE</b>	<b>DATES</b>	<b>COMMENTS</b>
Professor (Scientific Distinguish Promotion)	Ain Shams University, Faculty of Engineering, Electrical Power and Machines Dept. Cairo, Egypt	May 2017-Till present	Instructor of several Electrical Engineering undergraduate and graduate courses. Research: Renewable energy systems, energy storage systems, smart grid, power systems control and dynamics
Associate Professor	King Saud University, College of Engineering, Electrical Engineering Dept., Riyadh, SA.	20 Sept. 2011- May 2015	Instructor of several Electrical Engineering undergraduate and graduate courses. Research: Renewable energy systems, energy storage systems, smart grid, power systems control and dynamics
Associate Professor	1) Ain Shams University, Electrical Power and Machines Dept. Cairo, Egypt 2) Part timer at British University in Egypt 3) Part timer at Arab Academy for Science and Technology and Maritime Transport, Cairo, Egypt	July 2012- May 2017	Instructor of several Electrical Engineering undergraduate and graduate courses. Supervisor of undergraduate and graduate research assistants, and several teaching assistants. Research: Renewable energy systems, energy storage systems, smart grid, power systems control and dynamics
Assistant Professor	1) Ain Shams University, Electrical Power and Machines Dept. Cairo, Egypt 2) Part timer at British University in Egypt 3) Part timer at Arab Academy for Science and Technology and Maritime Transport, Cairo, Egypt	July 2007- June 2012	Instructor of several Electrical Engineering undergraduate and graduate courses. Supervisor of undergraduate and graduate research assistants, and several teaching assistants. Research: Renewable energy systems, energy storage systems, smart grid, power systems control and dynamics
Teaching Assistant	Ain Shams University, Electrical Power and Machines Dept. Cairo, Egypt	July 2004- June 2007	Teach tutorials and labs for different electrical engineering courses.
Demonstrator	Ain Shams University, Electrical Power and Machines Dept. Cairo, Egypt	July 1999- June 2004	Teach tutorials and labs for different electrical engineering courses.

## 2. RESEARCH:

### a) *Area of Interest:*

- i) Renewable energy systems.
- ii) Power systems control and dynamics.
- iii) Energy storage devices.
- iv) Distributed generation and smart grids operation and control.
- v) Modern control techniques.

### b) *Research Projects*

- [1] Ibrahim Alsaidan, Hany M. Hasanien, Muhaned Alarraj, Abrar Saleh Hammad, “Proton Exchange Membrane Fuel Cell Steady State Modelling Using Metaheuristic Optimization Algorithms”, Deanship of Scientific Research, Qassim University, Qassim, S.A. (١٠٣٠٣-qec-٢٠٢٠-١-٣-I) during the academic year ١٤٤١ AH / ٢٠٢٠ AD", September 2020-September 2021.
- [2] Mohamed H. Qais, Hany M. Hasanien, Adnan Nouh, and Saad Alghuwainem, “Performance improvement of grid-connected renewable energy systems”, Deanship of Scientific Research, King Saud University, Riyadh, S.A. RGP-1440-049. Dec. 2018- September 2019.
- [3] Mohamed H. Qais, Hany M. Hasanien, Adnan Nouh, and Saad Alghuwainem, “Performance improvement of grid-connected renewable energy systems”, Deanship of Scientific Research, King Saud University, Riyadh, S.A. RGP-1440-049. September 2019-March 2020.
- [4] Mohamed H. Qais, Hany M. Hasanien, Adnan Nouh, and Saad Alghuwainem, “Performance improvement of grid-connected renewable energy systems”, Deanship of Scientific Research, King Saud University, Riyadh, S.A. RGP-1440-049. March 2020-March 2021.
- [5] Hany M. Hasanien, “Design optimization of PID controller in automatic voltage regulator system using Taguchi combined genetic algorithm method”, The Deanship of Scientific Research, Research Center, College of Engineering, King Saud University, 1 June 2012-1 April 2013.
- [6] Hany M. Hasanien and Syed Q. Ali, “Wind generator stability improvement by adaptive neural network controlled superconducting magnetic energy storage”, Sustainable Energy Technology (SET), King Saud University, S.A. SP12/A1/010. 15 Jan. 2012-15 July 2012.
- [7] Hany M. Hasanien, Syed Q. Ali, and Essam A. Al-Ammar “Transient stability enhancement of DFIG based Wind farm using advanced controllers”, Saudi Aramco Chair of Electrical Power, King Saud University, S.A. 1 Jan. 2012-30 Oct. 2012.
- [8] Hany M. Hasanien, “Speed control of grid-connected switched reluctance generator driven by variable speed wind turbine using adaptive neural network

controller”, The Deanship of Scientific Research, Research Center, College of Engineering, King Saud University, 1 October 2011-1 October 2012.

**c) Publications:**

**1) Books: 3**

- [1] Hany M. Hasanien and Sayed Abbas Atia, “Control Systems and Applications”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, April 2010.
- [2] Hany M. Hasanien, S. M. Muyeen, and Junji Tamura, “Switched Reluctance Machine”, Praise Worthy Prize Press, Napoli, Italy, ISBN 978-88-96329-02-3, Feb. 2010.
- [3] Hany M. Hasanien, “Digital Control Lab.”, Electrical and Communications Dept., British University in Egypt, April 2009.

**2) Book Chapters: 2**

- [1] Mina N. Amin, Mahmoud A. Soliman, Hany M. Hasanien, and Almoataz Y. Abdelaziz, “Hybrid CSA-GWO Algorithm-Based Optimal Control Strategy for Efficient Operation of Variable-Speed Wind Generators”, Springer Nature Switzerland. Book ISBN 978-3-030-64336-2. pp. 227-245, Book title ‘Control and Operation of Grid-Connected Wind Energy Systems’.
- [2] Hany M. Hasanien, and Ahmed Aldurra, “Grid connection scheme of a variable speed wind turbine driven switched reluctance generator”, Springer Verlag, London, 2011. Book ISBN 978-1-4471-2200-5. Book title ‘Wind Energy Conversion System’.

**3) Book Co-Editor: 1**

- [1] Co-Editor with both of Dr. S.M. Muyeen and Dr. Ahmed Al-Durra. Book Title: Wind Farm, Publisher: InTech, ISBN: 980-953-307-562-9.

**4) Books Reviewer: 5**

- [1] Tarek Mosad and Akram Ismail, “Technical Drawing and Circuit Analysis”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, Feb. 2011.
- [2] Mohamed Gad and Mahmoud Orabi, “Programmable Logic Technology”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, March 2011.
- [3] Tarek Mosad and Ahmed Gouda, “Power Electronics”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, April 2011.

- [4] Salha Fathy and Nehal Saed, “Technical Training”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, April 2011.
- [5] Akram Ismail and Mohamed Ibrahim, “Electrical Installations”, Upgrading of Industrial Secondary School, Ministry of Education, Egypt, May 2011.

### 5) Articles Published and accepted to appear in refereed Journals: 186

- [1] Martin Calasan, Shady H. E. Abdel Aleem, Hany M. Hasanien, Zuhair M. Alaas, and Ziad M. Ali, “An innovative approach for mathematical modeling and parameter estimation of PEM fuel cells based on iterative Lambert W function”, *Energy*, vol. 264, 126165, pp. 1-15, February 2023. [ISI Journal](#)
- [2] Marcos Tostado-Véliz, Hany M. Hasanien, Salah Kamel, Rania A. Turkey, Francisco Jurado and M. R. Elkadeem, “Multiobjective home energy management systems in nearly-zero energy buildings under uncertainties considering vehicle-to-home: A novel lexicographic-based stochastic-information gap decision theory approach”, *Electric Power Systems Research*, vol. 214, 108946, pp. 1-13, January 2023. [ISI Journal](#)
- [3] Ahmed Mahdy, Hany M. Hasanien, Rania A. Turkey, and Shady H. E. Abdel Aleem, “Modeling and optimal operation of hybrid wave energy and PV system feeding supercharging stations based on golden jackal optimal control strategy”, *Energy*, vol. 263, 125932, pp. 1-19, January 2023. [ISI Journal](#)
- [4] Mahmoud A. El-Dabah, Ragab A. El-Sehiemy, Hany M. Hasanien, and Bahaa Saad, “Photovoltaic Model Parameters Identification Using Northern Goshawk Optimization Algorithm”, *Energy*, vol. 262, Part B, 125522, pp. 1-18, Jan. 2023. [ISI Journal](#)
- [5] W.D. Chen, Hany M. Hasanien, K.J. Chua, “Towards a digital twin approach – Experimental analysis and energy optimization of a multi-bed adsorption system”, *Energy Conversion and Management*, vol. 271, 116346, pp. 1-21, November 2022. [ISI Journal](#)
- [6] Mahmoud A. Soliman, Hany M. Hasanien, Rania A. Turkey, and S.M. Muyeen, “Hybrid African Vultures-Grey Wolf Optimizer Approach for Electrical Parameters Extraction of Solar Panel Models”, *Energy Reports*, vol. 8, pp. 14888-14900, November 2022. [ISI Journal](#)
- [7] Ahmed M. Hussien, Jonghoon Kim, Abdulaziz Alkuhayli, Mohammed Alharbi, Hany M. Hasanien, Marcos Tostado-Véliz, Rania A. Turkey, Francisco Jurado, “Adaptive PI Control Strategy for Optimal Microgrid Autonomous Operation”, *Sustainability*, vol. 14, no. 22, pp. 1-22, November 2022. [ISI Journal](#)
- [8] Mohamed A. M. Shaheen, Zia Ullah, Mohammed H. Qais, Hany M. Hasanien, K.J. Chua, Marcos Tostado-Véliz, Rania A. Turkey, Francisco Jurado, and Mohamed R. Elkadeem, “Solution of Probabilistic Optimal Power Flow Incorporating Renewable Energy Uncertainty using a Novel Circle Search Algorithm”, *Energies*, vol. 15, no. 21, pp. 1-19, November 2022. [ISI Journal](#)

- [9] Samuel R. Fahim, Hany M. Hasanien, Rania A. Turkey, Shady H.E. Abdel Aleem and Martin Calasan, “A Comprehensive Review of Photovoltaic Modules Models and Algorithms Used in Parameter Extraction”, *Energies*, vol. 15, no. 23, pp. 1-53, November 2022. [ISI Journal](#)
- [10] Ibrahim Alsaidan, Mohamed A. M. Shaheen, Hany M. Hasanien, Muhannad Alaraj, Abrar S. Alnafisah, “A PEMFC model optimization using the enhanced bald eagle algorithm”, *Ain Shams Engineering Journal*, vol. 13, no. 6, 101749, pp. 1-11, November 2022. [ISI Journal](#)
- [11] Mohamed Mostafa Elsaied, Walid Helmy, Hany M. Hasanien, “Frequency Stabilization of a hybrid three-area power system equipped with Energy Storage Units and renewable energy sources”, *IET Renewable Power Generation*, vol. 16, no. 15, pp. 3267-3286, November 2022. [ISI Journal](#)
- [12] Nourhan A. Maged, Hany M. Hasanien, Essamudin A. Ebrahim, Marcos Tostado-Véliz, and Francisco Jurado, “Real-Time Implementation and Evaluation of Gorilla Troops Optimization-Based Control Strategy for Autonomous Microgrids”, *IET Renewable Power Generation*, vol. 16, no. 14, pp. 3071-3091, October 2022. [ISI Journal](#)
- [13] Banaja Mohanty, Rajvikram Madurai Elavarasan, Hany M. Hasanien, Elangovan Devaraj, Rania A. Turkey, and Rishi Pugazhendhi, “Parameters Identification of Proton Exchange Membrane Fuel Cell Model Based on the Lightning Search Algorithm”, *Energies*, vol. 15, no. 21, pp. 1-19, October 2022. [ISI Journal](#)
- [14] Bachir BENTOUATI, Ragab A. El-SEHIEMY, Saliha CHETTIH and Hany M. Hasanien, “A chaotic krill herd optimizer for efficient combination of renewable energy sources in isolated microgrid mode”, *Electric Power Components and Systems*, vol. 49, no. 18-19, pp. 1445-1462, October 2022. [ISI Journal](#)
- [15] Hany M. Hasanien, Marcos Tostado-Véliz, Rania A. Turkey, and Francisco Jurado, “Hybrid Adaptive Controlled Flywheel Energy Storage Units for Transient Stability Improvement of Wind Farms”, *Journal of Energy Storage*, vol. 54, 105262, pp. 1-13, October 2022. [ISI Journal](#)
- [16] Basma Salah, Hany M. Hasanien, Fadia M. A. Ghali, Yasser M. Alsayed, Shady H. E. Abdel Aleem, Adel El-Shahat, “African Vulture Optimization-Based Optimal Control Strategy for Voltage Control of Islanded DC Microgrids”, *Sustainability*, vol. 14, no. 19, 11800, pp. 1-27, September 2022. [ISI Journal](#)
- [17] Zia Ullah, Shoarong Wang; Guoan Wu; Hany M. Hasanien; M. Waqas Jabbar; Hassan Saeed Qazi; Marcos Tostado-Véliz; Rania A. Turkey, M.R. Elkadeem, “Advanced Studies for Probabilistic Optimal Power Flow in Active Distribution Networks: A Scientometric Review”, *IET Generation, Transmission & Distribution*, vol. 16, no. 18, pp. 3579-3604, September 2022. [ISI Journal](#)
- [18] Mohamed A. M. Shaheen, Hany M. Hasanien, S. F. Mekhamer, Mohammed H. Qais, Saad Alghuwainem, Zia Ullah, Marcos Tostado-Véliz, Rania A. Turkey, Francisco Jurado and Mohamed R. Elkadeem, “Probabilistic Optimal Power Flow Solution Using a Novel Hybrid Metaheuristic and Machine

- Learning Algorithm”, *Mathematics*, vol. 10, no. 17, 3036, pp. 1-24, September 2022. [ISI Journal](#)
- [19] Mahmoud A. Soliman, Hany M. Hasanien, Mohamed Shawky El Moursi, Ahmed Al-Durra, “Chaotic-Billiards Optimization Algorithm-Based Optimal FLC Approach for Stability Enhancement of Grid-Tied Wind Power Plants”, *IEEE Transactions on Power Systems*, vol. 37, no. 5, pp. 3614-3629-September 2022. [ISI Journal](#)
- [20] Ahmed H. Yakout, Waheed Sabry, Almoataz Y. Abdelaziz, Hany M. Hasanien, Hossam Kotb and Kareem M. AboRas, “Enhancement of Frequency Stability of Power Systems Integrated with Wind Energy Using Marine Predator Algorithm Based PIDA Controlled STATCOM”, *Alexandria Engineering Journal*, vol. 61, no. 8, pp. 5851-5867, August 2022. [ISI Journal](#)
- [21] Ahmed H. Yakout, Hossam Kotb, Kareem M. AboRas, Hany M. Hasanien, “Comparison among different recent metaheuristic algorithms for parameters estimation of solid oxide fuel cell: Steady-state and dynamic models”, *Alexandria Engineering Journal*, vol. 61, no. 11, pp. 8507-8523, November 2022. [ISI Journal](#)
- [22] Marcos Tostado-Véliz, Salah Kamel, Hany M. Hasanien, Rania A. Turkey, Francisco Jurado, “Optimal Energy Management of Cooperative Energy Communities considering Flexible Demand, Storage and Vehicle-to-Grid under Uncertainties”, *Sustainable Cities and Society*, vol. 84, 104019, pp. 1-13, September 2022. [ISI Journal](#)
- [23] Marcos Tostado-Véliz, Salah Kamel, Hany M. Hasanien, Paul Arévalo, Rania A. Turkey, Francisco Jurado, “A Stochastic-Interval Model for Optimal Scheduling of PV-assisted Multi-mode Charging Stations”, *Energy*, vol. 253, 124219, pp. 1-13, August 2022. [ISI Journal](#)
- [24] Ahmed R. Ginidi, Abdullah M. Shaheen, Ragab A. El-Sehiemy, Hany M. Hasanien, and Ahmed Al-Durra, “Estimation of electrical parameters of photovoltaic panels using heap-based algorithm”, *IET Renewable Power Generation*, vol. 16, no. 11, pp. 2292-2312, August 2022. [ISI Journal](#)
- [25] Abdullah M. Shaheen, Ragab A. El-Sehiemy, Hany M. Hasanien, Ahmed R. Ginidi, “An Improved Heap Optimization Algorithm for Efficient Energy Management based Optimal Power Flow Model”, *Energy*, vol. 250, 123795, pp. 1-18, July 2022. [ISI Journal](#)
- [26] Hazem Hassan Ellithy, Adel M. Taha, Hany M. Hasanien, Mahmoud A. Attia, Adel El-Shahat, and Shady H. E. Abdel Aleem, “Estimation of Parameters of Triple Diode Photovoltaic Models Using Hybrid Particle Swarm and Grey Wolf Optimization”, *Sustainability*, vol. 14, no. 15, 9046, pp. 1-20, July 2022. [ISI Journal](#)
- [27] Ghazi A. Ghazi, Hany M. Hasanien, Essam A. Al-Ammar, Rania A. Turkey, Wonsuk Ko, Sisam Park, Hyeong-Jin Choi, “African Vulture Optimization Algorithm-Based PI Controllers for Performance Enhancement of Hybrid Renewable-Energy Systems”, *Sustainability*, vol. 14, 8172, pp. 1-25, July 2022. [ISI Journal](#)
- [28] Ahmed Mahdy, Hany M. Hasanien, Waleed Helmy, Rania A. Turkey, Shady H. E. Abdel Aleem, and Essamudin Ali Ebrahim, “Nonlinear Modeling and Real-

- Time Simulation of a Grid-Connected AWS Wave Energy Conversion System”, *IEEE Transactions on Sustainable Energy*, vol. 13, no. 3, pp. 1744-1755, July 2022. [ISI Journal](#)
- [29] Hany M. Hasanien, Rania A. Turkey, Marcos Tostado-Véliz, S. M. Mueeen, and Francisco Jurado, “Enhanced Block-Sparse Adaptive Bayesian Algorithm Based Control Strategy of Superconducting Magnetic Energy Storage Units for Wind Farms Power Ripple Minimization”, *Journal of Energy Storage*, vol. 50, 104208, pp. 1-11, June 2022. [ISI Journal](#)
- [30] M. H. Qais, Hany M. Hasanien, Rania A. Turkey, Saad Alghuwainem, K.H. Loo, and M. Elgendy, “Optimal PEM Fuel Cell Model Using a Novel Circle Search Algorithm”, *Electronics*, vol. 11, no. 12, 1808, pp. 1-20, June 2022. [ISI Journal](#)
- [31] Hany M. Hasanien, Mohamed A. M. Shaheen, Rania A. Turkey, Mohammed H. Qais, Saad Alghuwainem, Salah Kamel, Marcos Tostado-Véliz, and Francisco Jurado, “Precise modeling of PEM fuel cell using a novel Enhanced Transient Search Optimization algorithm”, *Energy*, vol. 247, 123530, pp. 1-14, May 2022. [ISI Journal](#)
- [32] M. H. Qais, Hany M. Hasanien, Saad Alghuwainem, K.H. Loo, M. Elgendy, and Rania A. Turkey, “Accurate Three-Diode model estimation of Photovoltaic modules using a novel circle search algorithm”, *Ain Shams Engineering Journal*, vol. 13, no. 3, 101824, pp. 1-14, May 2022. [ISI Journal](#)
- [33] Mohamed H. Qais, Hany M. Hasanien, Rania A. Turkey, Saad Alghuwainem Marcos Tostado-Véliz, Francisco Jurado, “Circle Search Algorithm: A Geometry-Based Metaheuristic Optimization Algorithm”, *Mathematics*, vol. 10, no. 10, 1626, pp. 1-18, May 2022. [ISI Journal](#)
- [34] Amr Saleh, Walid A. Omran, Hany M. Hasanien, Marcos Tostado-Véliz, Abdulaziz Alkuhayli, and Francisco Jurado, “Manta Ray Foraging Optimization for the Virtual Inertia Control of Islanded Microgrids Including Renewable Energy Sources”, *Sustainability*, vol. 14, 4189, pp. 1-19, April 2022. [ISI Journal](#)
- [35] Marcos Tostado-Véliz, Salah Kamel, Hany M. Hasanien, Rania A. Turkey, Francisco Jurado, “Uncertainty-Aware Day-Ahead Scheduling of Microgrids considering Response Fatigue: an IGDT Approach”, *Applied Energy*, vol. 310, 118611, pp. 1-15, March 2022. [ISI Journal](#)
- [36] Rania A. Turkey, Hany M. Hasanien, and Abdulaziz Alkuhayli, “Dynamic Stability Improvement of AWS-Based Wave Energy Systems Using a Multiobjective Salp Swarm Algorithm-Based Optimal Control Scheme”, *IEEE Systems Journal*, vol. 16, no. 1, pp. 79-87, March 2022. [ISI Journal](#)
- [37] Heba tallah.K. Abdelbadie, Adel T. M.Taha, Hany M. Hasanien, Rania A. Turkey, and S.M. Mueeen, “Stability Enhancement of Wind Energy Conversion Systems based on Optimal Superconducting Magnetic Energy Storage Systems Using Archimedes Optimization Algorithm”, *Processes*, vol. 10, no. 366, pp. 1-1-28, Feb. 2022. [ISI Journal](#)
- [38] Mihailo Micev, Martin Čalasan, Shady H. E. Abdel Aleem, Hany M. Hasanien and Dragan S. Petrovic, “Two Novel Approaches for Identification of Synchronous Machine Parameters from Short-Circuit Current Waveform”,



- IEEE Transactions on Industrial Electronics*, vol. 69, no. 6, pp. 5536-5546, June 2022. [ISI Journal](#)
- [39] Ahmed Mahdy, Hany M. Hasanien, Waleed Helmy, Rania A. Turkey, and Shady H. E. Abdel Aleem, "Transient Stability Improvement of Wave Energy Conversion Systems Connected to Power Grid Using Anti-Windup-Coot Optimization Strategy", *Energy*, vol. 245, 123321, pp. 1-16, April 2022. [ISI Journal](#)
- [40] Martin Čalasan, Ahmed F. Zobaa, Hany M. Hasanien, Shady H. E. Abdel Aleem, and Ziad M. Ali, "Corrigendum to "Towards accurate calculation of supercapacitor electrical variables in constant power applications using new analytical closed-form expressions" [J. Energy Storage 42 (2021) 102998]", *Journal of Energy Storage*, vol. 48, 104367, pp. 1, April 2022. [ISI Journal](#)
- [41] Muhyaddin Rawa; Sultan Alghamdi; Ahmad H. Milyani; Fahd Hariri; Baheej Alghamdi; Mohammed Ajour; Martin Čalasan; Ziad M Ali, Hany M. Hasanien; Bozidar Popovic; Shady H. E. Abdel Aleem, "Thermal Model of Supercapacitors Operating in Constant Power Applications: New Mathematical Expressions for Precise Calculation of Temperature Change", *Journal of Energy Storage*, vol. 49, 104121, pp. 1-20, May 2022. [ISI Journal](#)
- [42] Ahmed Fathy, Abdullah G. Alharbi, Sulaiman Alshammari, and Hany M. Hasanien, "Archimedes optimization algorithm Based Maximum Power Point Tracker for Wind Energy Generation System", *Ain Shams Engineering Journal*, vol. 13, no. 2, 101548, pp. 1-18, March 2022. [ISI Journal](#)
- [43] Ahmed M. Hussien, Rania A. Turkey, Abdulaziz Alkuhayli, Hany M. Hasanien, Marcos Tostado-Véliz, Francisco Jurado, and Ramesh C. Bansal, "Coot bird algorithms based tuning PI controller for optimal microgrid autonomous operation", *IEEE ACCESS*, vol. 10, pp. 6442-6458, January 2022. [ISI Journal](#)
- [44] Abdelhady Ramadan, Salah Kamel, Mohamed H. Hassan, Emad M. Ahmed, Hany M. Hasanien, "Accurate Photovoltaic Models Based on an Adaptive Opposition Artificial Hummingbird Algorithm", *Electronics*, vol. 11, no. 3, 318, pp. 1-27, January 2022. [ISI Journal](#)
- [45] Marcos Tostado-Véliz, Salah Kamel, Hany M. Hasanien, Rania A. Turkey, and Francisco Jurado, "A Mixed-Integer-Linear-Logical Programming Interval-based Model for Optimal Scheduling of Isolated Microgrids with Green Hydrogen-based Storage considering Demand Response", *Journal of Energy Storage*, vol. 48, 104028, pp. 1-16, April 2022. [ISI Journal](#)
- [46] Emad M. Ahmed, Stevan Rakoc`evic`, Martin Čalasan, Ziad M. Ali, Hany M. Hasanien, Rania A. Turkey, and Shady H.E. Abdel Aleem, "BONMIN solver-based coordination of distributed FACTS compensators and distributed generation units in modern distribution networks", *Ain Shams Engineering Journal*, vol. 13, 101664, pp. 1-17, June 2022. [ISI Journal](#)
- [47] Ahmed Fathy, Dalia Yousri, Hegazy Rezk, Sudhakar Babu Thanikanti, and Hany M. Hasanien, "A Robust Fractional-Order PID Controller Based Load Frequency Control Using Modified Hunger Games Search Optimizer", *Energies*, vol. 15, 361, pp. 1-25, January 2022. [ISI Journal](#)

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- [49] Ahmed H. Yakout, Hany M. Hasanien, and Hossam Kotb, “Proton Exchange Membrane fuel cell Steady state Modelling using Marine Predator Algorithm optimizer”, *Ain Shams Engineering Journal*, vol. 12, no.4, 3765-3774, December 2021. [ISI Journal](#)
- [50] Mohamed Sobhy, Mohamed Ezzat, Hany M. Hasanien and Almoataz Y. Abdelaziz, “Marine Predators Algorithm for Load Frequency Control of Modern Interconnected Power Systems Including Renewable Energy Sources and Energy Storage Units”, *Ain Shams Engineering Journal*, vol. 12, no. 4, pp. 3843-3857, December 2021. [ISI Journal](#)
- [51] Hamdy M. Sultan, Ahmed S. Menesy, Salah Kamel, Rania A. Turkey, Hany M. Hasanien, and Ahmed Al-Durra, “Optimal Values of Unknown Parameters of Polymer Electrolyte Membrane Fuel Cells Using Improved Chaotic Electromagnetic Field Optimization”, *IEEE Transactions on Industry Applications*, vol. 57, no. 6, pp. 6669-6687, November/December 2021. [ISI Journal](#)
- [52] Khasanov, Mansur; Kamel, Salah; Rahmann, Claudia; Hany M. Hasanien, Ahmed Al-Durra, “Optimal distributed generation and battery storage units integration in distribution systems considering power generation uncertainty”, *IET Generation, Transmission & Distribution*, vol. 15, no. 24, pp. 3400-3422, December 2021. [ISI Journal](#)
- [53] Mahmoud Elsis, Minh-Quang Tran, Hany M. Hasanien, Rania A. Turkey, Fahad Albalawi and Sherif S. M. Ghoneim, “Robust Model Predictive Control Paradigm for Automatic Voltage Regulators against Uncertainty Based on Optimization Algorithms”, *Mathematics*, vol. 9, 2885, pp. 1-20, November 2021. [ISI Journal](#)
- [54] Ahmed M. Taher, Adel M. Taha, Hany M. Hasanien, and Ahmed R. Genedi, “Decentralized Control Based on Hybrid Water Cycle and Moth-Flame Optimization of Fractional-Order Fuzzy PID in a Multiple DGs Faulty Autonomous Microgrid”, *International Journal on Energy Conversion*, vol. 9, no. 5, pp. 239-250, September 2021.
- [55] Martin Čalasan, Mihailo Micev, Milovan Radulović, Ahmed F. Zobaa, Hany M. Hasanien, and Shady H. E. Abdel Aleem, “Optimal PID Controllers for AVR System Considering Excitation Voltage Limitations Using Hybrid Equilibrium Optimizer”, *Machines*, vol. 9, 265, pp. 1-28, November 2021. [ISI Journal](#)
- [56] Mohamed A. M. Shaheen, Hany M. Hasanien, Rania A. Turkey, Martin Čalasan, Ahmed F Zobaa, Shady H. E. Abdel Aleem, “OPF of Modern Power Systems Comprising Renewable Energy Sources Using Improved CHGS Optimization Algorithm”, *Energies*, vol. 14, 6962, pp 1-22, October 2021. [ISI Journal](#)

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- [62] Hany M. Hasanien, S. M. Muyeen, and Junji Tamura, “Speed control of permanent magnet synchronous motor using digital pole placement controller”, *in the proceeding of IEEE Powertech Conference*, Bucharest, Romania, June 2009.
- [63] Hassan M. Kamel, Hany M. Hasanien, and H. E. A. Ibrahim, “Speed Control of Permanent Magnet Synchronous Motor Using Fuzzy Logic Controller”, *in the proceeding of IEEE International Electric Machines and Drives Conference (IEMDC)*, Miami, USA, pp. 1587-1591, May 2009.
- [64] Hany M. Hasanien, N.H. Saad, M.A. Mostfa, M.A. Badr “Speed control of axial lamination switched reluctance motor provided with digital pole placement controller” *in proceeding of the 17<sup>th</sup> international Conference of Electrical Machines. (ICEM 2006)*, Crete island, Greece, September 2006.
- [65] Hany M. Hasanien, N.H. Saad, M.A. Mostfa, M.A. Badr “Steady state performance of axial laminations switched reluctance motor” *in proceeding of the 11<sup>th</sup> international middle east power system conference (MEPCON 2006)*, El Minia University, Egypt.
- [66] Hany M. Hasanien, A.A. Abbas, M.A. El Sayad, M.A. Badr “ Torque ripple minimization of switched reluctance motor using lead-lag compensator controller” *in proceeding of the 10<sup>th</sup> international middle east power system conference (MEPCON 2005)*, Port-Said, Egypt.
- [67] Hany M. Hasanien, A.A. Abbas, M.A. El Sayad, M.A. Badr “ Speed regulation of switched reluctance motor using optimized harmonic injection technique” *in proceeding of the 9<sup>th</sup> international middle east power system conference (MEPCON 2003)*, Shebin El kom, Egypt.

### 3. TEACHING:

#### a) Courses taught:

A summary by course for the results from teaching critiques are given in the following sections.

#### Courses at Ain Shams University:

Course	Level
Control of Electrical Machines	Grad
Power Systems Control	Grad
Electrical Testing	Grad
Electrical Circuits	Undergrad

Power Electronics	Undergrad
Automatic Control	Undergrad
Utilization of Electrical Power	Undergrad
Digital Control	Undergrad
Measurement and Instrumentation	Undergrad
Electromagnetic field	Undergrad
Energy Conversion	Undergrad
Electrical Machines	Undergrad

### Courses at King Saud University:

Course	Level
EE 631: Computer aided analysis of Electrical Machines	Grad
EE 632: Special types of Electrical Machinery	Grad
EE 633: Computational methods in Electromagnetics	Grad
EE 638: Linear Electrical Machines	Grad
EE 637: Advanced topics in drives and power electronics	Grad
EE 532: Generalized theory of Electrical Machines	Grad
EE 533: Electrical Machine dynamics	Grad
EE 430-436: Introduction to electrical machines dynamics	Undergrad
EE 432: Power electronics	Undergrad
EE 441: Power systems analysis	Undergrad
EE 435: Electric drives	Undergrad
EE 496: Graduation project 1	Undergrad
EE 497: Graduation project 2	Undergrad

### b) Thesis Supervision:

In most cases, I have been the *main research supervisor*, given the status of the other professors

### Summary:

Total PhD Students supervised and graduated as of March 1, 2021: 6

Total PhD Students under present supervision as of March 1, 2021: 3

Total MS Students supervised and graduated as of March 1, 2021: 16

Total MS Students under present supervision, as of March 1, 2021: 7

No.	Name	Degree	Dates	Comments
1	Sayed Madboly	PhD	July 2006-April 2010	Thesis: Investigation the dynamic response of Brushless doubly-fed

				induction generator used for variable speed wind energy applications Co-supervisor: Prof. M. A. Badr
2	Rania Raafat	M.Sc	May 2007-May 2010	Thesis: Equivalent models for wind farms Co-supervisor: Prof. M. A. Badr
3	Ahmed Abd Rabo	M.Sc	Oct. 2008-April 2011	Thesis: Optimal design of transverse flux linear motor Co-supervisor: Prof. Sohier. Sakr
4	Ahmed Yousry	M.Sc	May 2009-Sept. 2011	Thesis: Analysis and control of transverse flux linear motor Co-supervisor: Prof. M. A.L. Badr
5	Ibrahim Mohamed	M.Sc	Oct. 2009-Feb. 2013	Thesis: Analysis, performance and control of axial flux permanent magnet brushless machine Co-supervisor: Prof. Hamdy El gohary
6	Samuel Rafat	M.Sc	Oct. 2008-Nov. 2011	Thesis: Impact of DG Existence in the Electrical Distribution Networks Co-supervisor: Prof. M. A.L. Badr
7	Sherehan Ashraf	M.Sc	Oct. 2008-Sept. 2011	Thesis: Performance enhancement of DFIG driven by wind farm Co-supervisor: Prof. M. A.L. Badr
8	Talha Taj	M.Sc	July 2013-March 2015	Thesis: DFIG wind farms Co-supervisor: Prof. Alolah
9	Rashid Meer	M.Sc	July 2013-May 2015	Thesis: TFLMs Co-supervisor: Prof. Alolah
10	Talha Ali Khan	M.Sc	September 2013-May 2015	Thesis: Speed control of stepper motor Co-supervisor: Prof. Adnan Nouh
11	Dina Ahmed Zaki Rostom	Ph.D	Oct. 2015-June 2020	Thesis: Provisory microgrid performance for flexible power system operation using new techniques Co-supervisor: Prof. Almoataz Y. Abdelaziz
12	Mohamed Magdy Mahmoud	M.Sc	Nov. 2015-October 2018	Thesis: Transient stability improvement of a grid-connected DFIG-based wind farm Co-supervisor: Prof. Huessin Faried Soliman
13	Shady Mahmoud Saed	M.Sc	May 2016-today	Thesis: Optimal demand side management of smart grid using new optimization techniques Co-supervisor: Dr. Mahmoud

				Othman
14	Romany Girges Gorgy	M.Sc	July 2016-April 2020	Thesis: Dynamic performance improvement of automatic voltage regulator system using computation evolutionary algorithms Co-supervisor: Prof. Mohamed A.L. Badr
15	Omnia Soliman Elazab	M.Sc	July 2016-Dec. 2018	Thesis: Low voltage ride through capability improvement of grid-connected photovoltaic power plants Co-supervisor: Dr. Amr Magdy
16	Haroon Morad Gaber	M.Sc	December 2016- today	Thesis: Advanced control strategies for autonomous operation of microgrids Co-supervisor: Dr. Mohamed Hassan Soliman
17	Abdelhamid Abdelbaset Mohamed	M.Sc	February 2017-Jan. 2020	Thesis: Photovoltaic array reconfiguration for partial shading losses reduction Co-supervisor: Prof. Almoataz Yousef and Dr. Mohamed Z. Shams
18	Mina Nabil Amen	M.Sc	January 2017- September 2020	Thesis: Performance enhancement of variable speed wind energy conversion system Co-supervisor: Prof. Almoataz Yousef
19	Abeer Shaban Abdelmohsen	Ph.D	July 2016-September 2021	Thesis: Dynamic performance enhancement of a grid connected photovoltaic system using advanced control strategies Co-supervisor: Prof. Mohamed A.L. Badr
20	Mahmoud Nasrallah Mohamed	Ph.D	May 2016-withdraw	Thesis: Transient stability improvement of a grid connected brushless doubly fed reluctance generator based wind turbine Co-supervisor: Prof. Huessin Faid Soliman and Dr. Eluessin Abbas
21	Amany Hamdy Abdelmoemen	Ph.D	May 2016-today	Thesis: Optimal control of microgrid operation under different conditions Co-supervisor: Prof. Mohamed A.L. Badr and Prof. Almoataz Y. Abdelaziz
22	Elham	Ph.D	September 2016-Jan.	Thesis: Reactive power control for



	Mohamed Darwish		2018	voltage fluctuations mitigation and power loss reduction under high photovoltaic penetration in the Egyptian distribution networks Co-supervisor: Prof. Soliman Eldebieky and Prof. Ahmed Attallah
23	Eman Mohamed Eisa	Ph.D	January 2017-June 2020	Thesis: Transient stability improvement of a grid connected permanent magnet synchronous generator based wind farm Co-supervisor: Prof. Mahmoud Abdelhamid Mostafa
24	Hassan Yousef Mahmoud	Ph.D	February 2017-October 2020	Thesis: Operation and control of offshore wind farm connected to high voltage direct current transmission systems Co-supervisor: Prof. Almoataz Y. Abdelaziz and Dr. Ahmed Hassan Bisher
25	Mohamed Salama Ebrahim	Ph.D	February 2017-October 2018	Thesis: Design of MPPT controller for on-grid PV systems Co-supervisor: Prof. Adel Emarah and Prof. Ahmed M. Atallah
26	Mohamed Abdullah Shaheen	M.Sc	Jan. 2018-June 2020	Thesis: Effect of Demand Response and Energy Storage on Power System Operation Co-supervisor: Prof. Hossam Talaat and Prof. Said Fouad.
27	Ahmed Huessin Moreb	M.SC	Jan. 2018-Jan. 2021	Thesis: Enhancement of the Performance of Micro Grids Co-supervisor: Prof. Said Fouad and Dr. Said Fouad.
28	Heba khalid	PhD	Jan. 2017-today	
29	Nesma Ahmed Abdelnaby	M.SC	Jan. 2019-September 2021	Thesis: Frequency stability enhancement of power systems using optimal frequency controllers. Co-supervisor: Dr. Ahmed Yakout.

#### **4. PROFESSIONAL ACTIVITIES:**

##### **a) Achievements and Awards**

- **He was a member of the promotion committee for Associate Professors and Professors of Electrical Power Engineering in Egypt in September 2022.**
- **He was awarded the IEEE Outstanding Engineer Award, USA, 2022.**
- **He was included in the Research Council of Ain Shams University in January 2021.**
- **He was awarded Superiority Egypt Award for Engineering Sciences in 2019.**
- **He was included in a Stanford University database (USA) for the best 2% of the scientists worldwide in 2020, 2021.**
- **He was Editor in Chief of Ain Shams Engineering Journal in April 2021.**
- **He was awarded Institutions Egypt Award for Invention and Innovation of Renewable Energy Systems Development in 2014.**
- **He was awarded Encouraging Egypt Award for Engineering Sciences in 2012.**
- **He is IEEE PES EGYPT Chapter Chairman, April 2020.**
- **He is an Editor of Electronics Journal, MDPI, Industrial Electronics Section, July 2020.**
- **He is an Editor of IET Renewable Power Generation since September 2016.**
- **He is a member of Energy Research Council in Academy of Scientific Research and Technology 2016.**
- **He is a Guest Editor of Special Issue on: Emerging Technologies for Virtual Plant and Microgrid, of IET Generation, Transmission & Distribution, 2018.**
- **He is an Editorial Board Member of Electric Power Components and Systems Journal since 2013.**
- **He is an Associate Editor of Ain Shams Engineering Journal since 2015.**
- **His Biography has been included in ‘2000 Outstanding Intellectuals of the 21<sup>st</sup> Century 2011’ in International Biographical Center, Cambridge, England.**
- **His Biography has been included in ‘Great Minds in the 21<sup>st</sup> Century’ in American Biographical Institute, North Carolina, U.S.A. 2011.**
- **His Biography has been included in ‘Marquis Who’s Who’ in the world for its 28<sup>th</sup> edition, 2011.**
- **Ain Shams University international publications award for 2010.**
- **Ain Shams University international publications award for 2011.**

- Ain Shams University international publications award for 2012.
- Highest distinction in B.Sc., first rank with honor.
- Faculty of Engineering, Ain Shams University excellent grade award for 5 years (1994-1998).

***b) Societies, Journals and Conferences:***

- Organized and Co-chaired of a Special Session of title "Control Applications in Distributed Power Generation Systems" on the 40<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society, IECON 2014, 28 Oct.-1 Nov. 2014, Dallas, TX, USA.
- Member of the Technical Organizing Committee of the Sixteenth International Middle East Power Systems Conference, MEPCON 2014, 23-25 Dec. 2014, Cairo, Egypt.
- Senior Member of the IEEE 2011-present.
- Member of the IEEE 2009-2010.
- Senior Member of Power and Engineering Society (PES), 2011-present.
- Member of Power and Engineering Society (PES), 2009-2010.
- Senior Member of Industrial Electronics Society (IES), 2011.
- Technical Committee Chair of International Conference on Advances in Industrial Control, Electronics, and Computer Engineering (AICECE) 2012, Aveiro-Portugal, 13-16 July 2012.
- Member of the Technical Organizing Committee of Second Ain Shams University International Conference on Environmental Engineering, which hold in Cairo, Egypt, April 10-12 2007.
- Member of the Technical Organizing Committee of Third Ain Shams University International Conference on Environmental Engineering, which hold in Cairo, Egypt, April 14-16 2009.
- An Editor of the Third Ain Shams University International Conference on Environmental Engineering, which hold in Cairo, Egypt, April 14-16 2009.
- Member of International Association of Engineers (IAENG), 2013.

***c) Refereeing and reviewing for Journals and Conferences:***

Regular reviewer for various journals and conferences, notably:

- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Power Systems
- IEEE Transactions on Sustainable Energy
- IET Renewable Power Generation
- IET Generation, Transmission, Distribution
- Electric Power Components and Systems
- European Transactions on Electrical Power
- International Review of Electrical Engineering
- Electric Power Systems Research
- Energy Conversion and Management

- International Journal of Electrical Power and Energy Systems
- Ain Shams Engineering Journal.
- King Saud University Journal.
- IEEE, IEMDC, 2009.
- MEPCON 2014, 2015 and 2016.
- Future University Conference 2016.

***d) Reviewer of Msc and PhD thesis:***

1. N. Balaji, “Development of a novel gate drive with active protection for IGBT and estimation of the optimal thermal limits of a PSSD in power supplies”, PhD thesis, Visvesvaraya Technological University, Jnana Sangama, Belgaum, India, March 2013.
2. Hassan Mohei Al-Deen Hassan Hussein, “Maximum power extraction from electric utility interfaced wind turbine system”, Msc thesis, King Saud University, College of Engineering, Electrical Engineering Department, Riyadh, Saudi Arabia, April 2013.
3. Ammar Anwar Khan, “Online partial discharge detection in underground power cables”, Msc thesis, King Saud University, College of Engineering, Electrical Engineering Department, Riyadh, Saudi Arabia, April 2013.
4. Mohamed Hasan Mohamed Qais, “Transient response of distance relays to power swings on series compensated transmission lines”, Msc thesis, King Saud University, College of Engineering, Electrical Engineering Department, Riyadh, Saudi Arabia, January 2014.
5. Wakeel Ahmed, “Appropriate Electric Energy Conservation Measures for Grand Mosques in Riyadh City”, M.Sc thesis, King Saud University, College of Engineering, Electrical Engineering Department, Riyadh, Saudi Arabia, March 2014.
6. Mohamed Hafeez Abbasi, “Control of grid-connected PV system for improved dynamic performance”, M.Sc thesis, King Saud University, College of Engineering, Electrical Engineering Department, Riyadh, Saudi Arabia, May 2015.
7. Hanan Abd El Mouiz Ali, “Application of Z-source inverter for photovoltaic systems connected to grid”, M.Sc thesis, Menoufia University, Faculty of Engineering, Electrical Engineering Department, Menoufia, Egypt, Jan. 2019.
8. Ingy Ali Mohamed, “Enhancement of power system stability with large scale integrated wind farms”, PhD thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, March 2019.
9. Wael Abdel-Fattah Mohamed, “Enhancement of smart grid distribution systems and integration of electric vehicles”, PhD thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, October 2017.
10. Mahmoud Soliman Abd El-Moniem, “Performance of permanent magnet synchronous generator (PMSG) driven by wind turbine”, PhD thesis, Menoufia

- University, Faculty of Engineering, Electrical Engineering Department, Menoufia, Egypt, Dec. 2018.
11. Ahmed Mahmoud Mahmoud, “Optimal allocation of energy storage systems (ESS) for load management applications”, M.Sc thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, April 2018.
  12. Ibrahim Abdel Nasser Ibrahim, “Impact of distributed generations (DG) on realibility of distribution system”, M.Sc thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, Feb. 2018.
  13. Amr Khaled Khamees, “Modern approaches for optimal power flow”, M.Sc thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, August 2017.
  14. Ahmed Samir Abbas, “Power quality enhancement in smart systems using artificial intelligence techniques”, M.Sc thesis, Menoufia University, Faculty of Engineering, Electrical Engineering Department, Menoufia, Egypt, Oct. 2018.
  15. Ahmed Magdy Mosaad, “Optimal design of controller for AVR performance enhancement”, M.Sc thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, Nov. 2017.
  16. Mohamed Ali Ali Othman, “Electric power system blackout prevention using automatic system separation”, M.Sc thesis, Ain Shams University, Faculty of Engineering, Electrical Power and Machines Department, Cairo, Egypt, Jan. 2018.
  - 17.

***e) Society service:***

- Coordinator of Electric power group.
- Coordinator of Electric Machines group.
- Member of ABET Committee.
- Member of NCAAA committee.
- Member of Railway Engineering Committee.

***f) Experience of Short Courses Training in Industry:***

- Transmission line protection, Dubai Electricity and Water Association (DEWA), 22-26 April 2018, Dubai, UAE.

- Circuit breaker and switchgear, Career Development & Consultations Academy, (CDC), Cairo, Egypt.
- Power Transformer, Construction, Operation, and Maintenance, Career Development & Consultations Academy, (CDC), Cairo, Egypt.
- Electric drives: operation, control and maintenance” in INMA Kingdom Training & Development Center, Cairo, Egypt.
- Electrical power distribution systems troubleshooting” in the group training and consultation (GTC), Cairo, Egypt.
- Automatic voltage regulator operation and maintenance” in the group training and consultation (GTC), Dammam, Saudi Arabia.
- Training courses with GTC from 2012-2015 as follows:
  - Generator protection
  - Excitation control systems
  - Switchgear, circuit breaker, relay operation and maintenance
  - Distributed control system
  - Electrical system transient investigation
  - Grounding
  - Power flow analysis
  - Battery
  - Variable speed drives
  - Faults analysis
  - Distribution transformers
  - Gas turbine control system
  - Low voltage network operation, testing and maintenance
  - Overhead lines Patrolling

**g) Invited Speaker and Session Chair:**

- [1] Hany M. Hasanien, “Photovoltaic modeling using metaheuristic algorithms”, *the 2nd INTERNATIONAL CONGRESS ON AI AND MACHINE LEARNING*, FEBRUARY 14-15, 2022, UK.
- [2] Hany M. Hasanien, “Artificial Intelligence Application for Photovoltaic Systems”, *International Conference on Artificial Intelligence and Robotics*, April 29-30, 2022, Osaka, Japan.
- [3] Hany M. Hasanien, “Session Chair”, *International Middle East Power Systems Conference (MEPCON)*, December 19-21, 2017, Cairo, Egypt.

- [4] Hany M. Hasanien, “Session Chair”, *International Middle East Power Systems Conference (MEPCON)*, December 17-19, 2019, Cairo, Egypt.
- [5] Hany M. Hasanien, “Session Chair”, *International Middle East Power Systems Conference (MEPCON)*, December 15-17, 2021, Cairo, Egypt.