



CURRICULUM VITAE

PERSONAL DETAILS

Name : Prof. Dr. Mohamed Ismail Roushdy
Professor of Computer Science (Specialized in Artificial Intelligence)
Computer Science Department, Faculty of Computer and Information
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Nationality : Egyptian.

Date of birth : 24/2/1958

Place of birth : Cairo, Egypt

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Professional Career

- 1- **Professor** in Computer Science Department, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 31/10/2007 till Now. Research conducted: Artificial Intelligence, Machine Learning, Expert Systems, Image Processing, Medical Informatics, Neural Networks, Cryptography, Computational Models, Data Mining and Biometrics.
- 2- **Chairman** of the Scientific Committee for Promotion of Professors and Associate Professors in Computer Science and Information at the Supreme Council of Egyptian Universities from 1/10/2025 till now.
- 3- **Dean** of Faculty of Computers & Information Technology, Innovation University, 10th of Ramadan, Egypt, from 1/9/2024 till 1/9/2025 (Sabbatical)
- 4- **Dean** of Faculty of Computers & Information Technology, Future University in Egypt, New Cairo, Egypt, from 1/9/2019 till 1/9/2023 (Sabbatical)..
- 5- **Dean** of the Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt by decision of the President of the Republic of Egypt, from 10/1/2015 to 1/4/2018.

- 6- **Dean (Elected)** of the Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 3/11/2011 to 3/11/2014.
- 7- **Dean** of the Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 11/8/2010 to 10/10/2011.
- 8- **Chairman** of the Faculty Disciplinary Board of Ain Shams University started on 26/1/2016 for one year.
- 9- **Chairman** of Computer Science Department, Faculty of Computer and Information Sciences, Ain Shams University, from 18/4/2017 to 1/8/2018.
- 10- **Chairman** of the Board of Appeal discipline students of Ain Shams University started on 26/1/2016 for one year.
- 11- Standing Committee member of the leadership at Ain Shams University jobs from 23/2/2016 to 1/4/2018.
- 12- **Supervisor (Deputy Dean)** of the Institute of Computer & Information Technology of Aviation & Aerospace, Civil Aviation Academy & Ain Shams University, Cairo, Egypt, from 16/2/2009 to 5/9/2011.
- 13- **Vice Dean** for Education & Student Affairs, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 28/7/2008 to 27/10/2010.
- 14- **Associate Professor**, in Computer Science Department, Faculty of Computers & Information Technology, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia from 1/9/2001 to 31/10/2007.
- 15- **Associate Professor**, in Computer Science Department, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 24/4/ 2000 to 31/10/2007.
- 16- **Consultant**, in University Information Network, Ain Shams University, Cairo, Egypt, from 1992 to 2001.
- 17- **Lecturer**, in Computer Science Department, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, from 6/2/1999 to 24/4/ 2000.
- 18- **Lecturer** in Physics Department, Faculty of Science, Ain Shams University, Cairo, Egypt, from 29/3/1993 to 6/2/1999.
- 19- **Assistant Lecturer** in Physics Department, Faculty of Science, Ain Shams University, Cairo, Egypt, from 9/8/1984 to 29/3/1993.
- 20- **Demonstrator** in Physics Department, Faculty of Science, Ain Shams University, Cairo, Egypt, from 6/11/1979 to 8/8/1984.

EDUCATION

- 1- Ph.D (Electronics), Faculty of Science, Ain Shams University, Cairo, Egypt, February, 1993.
Dissertation: "Remote Sensing by Electromagnetic Waves Using the Concept of Tomography"
Experimental doctoral research work was conducted at the Institute for High Frequency Technique, Faculty for Electrical Engineering, University of Bochum, Bochum, Germany, 1989-1991.
- 2- M.Sc., Faculty of Science, Ain Shams University, Cairo, Egypt, July, 1984.
- 3- B.Sc., Faculty of Science, Ain Shams University, Cairo, Egypt, May, 1979 with grade "Very Good".
- 4- Attended graduate courses from 20/10/1989 to 15/12/1991 at the Institute for High Frequency Technique, Faculty for Electrical Engineering, University of Bochum, Bochum, Germany
- 5- Diploma in Distance Learning, Computer Science School, Community of Mediterranean Universities, Oct., 1993, Lecce, Italy.

Languages:

Arabic: Native Language

English: Fluent

German : Fair

Awards: Ain Shams University Appreciation Award in Technological Sciences (Year 2019)

PROFESSIONAL SOCIETIES

- 1- **Chairman** of the Scientific Committee for Promotion of Professors and Associate Professors in Computer Science and Information at the Supreme Council of Egyptian Universities from 1/10/2025 till now.
- 2- Member in Information Technology Executive Committee, Supreme Council of Egyptian Universities, Cairo, Egypt from 2010 to 2018 and from 2022 to 2023.
- 3- Member in the promotion Committee for Professors & Associate Professors in Computer Science & Information systems, Supreme Council of Egyptian Universities, Cairo, Egypt from 2013 to 2016 .
- 4- **Reviewer** at National Authority for Quality Assurance and Accreditation of Education NAQAAE from 2009 til Now.
- 5- Member in Syndicate of Scientific Professions, Egypt.
- 6- Member in Egyptian Computer Society, Egypt.
- 7- Deputy Editor in Chief in "Future Computing and Informatics Journal" from 1/9/2019 till 1/9/2023.
<https://digitalcommons.aaru.edu.jo/fcij/>
- 8- Editor in "Engineering and Scientific International Journal"
- 9- Editorial Advisory Board in Asian Journal of Computer Science and Technology (AJCST)

PROJECTS :

- 1- Member in the Project entitled “ARABIC COMPUTATIONAL LINGUISTICS PROJECT”, Academy of Scientific Research and Technology Cooperation with USAID Contract No. 67.(1995-1996).
- 2- Member in the Project entitled “Expert System for Specialized Dairy Cattle Project”, Faculty of Agriculture, Ain Shams University (1997).
- 3- Principal Investigator for the Project entitled: "Artificial Intelligence for Urban Risk Prediction" Joint Research (Tunisia/Egypt) Egyptian Ministry of Scientific Research.(2013/2014)
- 4- Member in the Project entitled "Recovering the Sight to Blind People in Indoor Environments with Smart Technologies", Department of Computer Science & Engineering, Trento University, Italy with Faculty of Computer & Information Sciences, Ain Shams University.(2014/2015).
- 5- Member in the Project entitled "**Biodiversity informatics**" BioDialog project is a multi-national project joining Jena University, Ain-Shams, Assiut Egypt universities and Sfax Tunisia University under the DAAD “Hochschudialog mit der islamischen Welt” program (2013-2017)

Conferences, Summer Schools, Seminars and Workshops

- 1- Participating in the International Week 2023 "Future University.Connecting Regions." Organized by University of Economics in Katowice, Poland, in the framework of Erasmus+ Staff Mobility programme from May 15 to May 19, 2023 and delivered lectures of 8 hours on the topic "Fourth-generation Universities".
- 2- Participating and dedicating to “Economics without Borders” project by University of Economics in Katowice, Poland from 17-19 October 2022.
- 3- Teaching in Cardiff Metropolitan University in Cardiff, UK under Erasmus+ (Staff Mobility for Teaching) from 4-8 April 2022.
- 4- **Chairman** and editor for the 5th International Conference on Computing and Informatics (ICCI2022) with cooperate with IEEE, 9-10 March 2022, Cairo, Egypt.

- 5- Teaching in the International Teaching Week Vidzeme University of Applied Sciences in Latvia under Erasmus+ (Staff Mobility for Teaching) from 22-27 October 2018, the Lectures entitled "Artificial Intelligence & Knowledge Engineering".
- 6- Teaching in Vasile Alecsandri University in Bacau, Romania under Erasmus+ (Staff Mobility for Teaching) from 1-9 September 2018.
- 7- Attending staff training week "Soft Skill in the International Setting" at the University of Economics in Katowice, Poland, under Erasmus+ (Staff Mobility for Training), from 7-11 May 2018.
- 8- Co-Coach and Supervisor for the team of Faculty of Computer & Information Sciences, Ain shams University sharing in the 42nd Annual ACM-ICPC International Colligate Programming Contest, World Final in Peking, China from 15 April to 20 April 2018.
- 9- **Chairman** and editor for the IEEE 8th International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, 5-7 December 2017.
- 10- Teaching in Vasile Alecsandri University in Bacau, Romania under Erasmus+ (Staff Mobility for Teaching) from 4/9/2017 till 15/9/2017.
- 11- Teaching, Consultation, Searching for Common Research Topics and Referee the Bachelors Theses in the Technical University of Kocise, Slovakia under Erasmus+ (Staff Mobility for Teaching), from 17/6/2017 till 7/7/2017.
- 12- Co-Coach and Supervisor for the team of Faculty of Computer & Information Sciences, Ain shams University sharing in the 41st Annual ACM-ICPC International Colligate Programming Contest, World Final in Rapid City, South Dakota, USA from 20 May to 25 May 2017.
- 13- Teaching M.Sc. course in the 7th International week at the University of Economics in Katowice, Poland, under Erasmus+ (Staff Mobility for Teaching), the course entitled "Knowledge Management in Economics and Medicine", April 2017.
- 14- Teaching M.Sc. course in the 6th International week at the University of Economics in Katowice, Poland, under Erasmus+ (Staff Mobility for Teaching), the course entitled "Knowledge Management in Economics and Medicine", April 2016.
- 15- **Chairman** and editor for the IEEE 7th International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 12-14, 2015.
- 16- Keynote Speaker & Session Chair in the 1st International Conference on Science, Engineering & Management Research (ICSEMR 2014), November 27-29, 2014, Chennai, Tamilnadu, India.
- 17- **Chairman** and editor for the 6th International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 14-16, 2013.
- 18- Scientific Sponsor for the 4th European Conference of Computer Science (ECCS '13), Paris, France, October 29-31, 2013.
- 19- **One of Chairman**, editor and scientific sponsor for the WSEAS conference in Dubrovnik, Croatia, June 25-27, 2013. www.wseas.org
- 20- **Chairman** and editor for 5th International Conference on Intelligent Computing and Information Systems, cooperation with ACM, Cairo, Egypt, June 2011.
- 21- Representing Egypt in the International Olympiad in Informatics in Portugal from 5/9/1998 to 12/9/1998, as a Deputy Leader for the Egyptian Team.
- 22- Visiting Scientist in Computer Science Department (Technische Informatik), Johann Wolfgang Goethe University, Frankfurt am Main, Germany, From 2/10/1997 to 2/1/1998.
- 23- "Methodologies and technologies for Distance Education in the Mediterranean Distance Learning Computer Science School" by MED-CAMPUS 31 July - 12 August 1995, Kusadasi, Turkey.

- 24- "Methodologies and Technologies for Distance Education in the Mediterranean Summer School on Computer Architecture, Computational Models and their Implementations", By Community of Mediterranean Universities MED-CAMPUS 15-27 August 1994, Cesme, Turkey.
- 25- "Distance Learning Computer Science School", By Community of Mediterranean Universities MED-CAMPUS, Summer Session 14 - 26, June 1993, School of Engineering, University of Lecce, Italy.
- 26- " The First International Seminar on Arabic Computational Linguistics", Egyptian Computer Society in Collaborating with Islamic Development Bank Jeddah (Saudi Arabia), 20-22 June, 1992, Cairo, Egypt, (Member in the Organizing Committee).
- 27- "Third International Workshop in expert Systems and their Applications", Egyptian Computer Society in Collaborating with UNESCO, IIP and Four Egyptian Institutions, 15-25 May, 1989, Cairo, Egypt.

PUBLICATIONS

- 1- "Deep Learning Architectures and Imaging Modalities for Plant Disease Detection: A Systematic Review", Mahmoud Ewieda, Thanaa Mohamed Hassan, Mohamed Ismail Roushdy, Journal of Artificial Intelligence in Engineering Practice, 2026, Vol. 3, No. 1, PP. 159-213.
- 2- "An Adaptive Hybrid Meta-Learning Framework for Context-Aware Inventory Forecasting and Optimization", Mohamed Ali, Thanaa Mohamed, Sahar El Tayeb, Mohamed Roushdy, Journal of Theoretical and Applied Information Technology, April 2026, Vol.104. No.7 , pp. 162-171.
<https://doi.org/10.5281/zenodo.19593756>
- 3- "Machine Learning Approaches for Detecting Lung Cancer: A Review", Zeina Rayan, Islam Hegazy; Mohamed Roushdy; Abdel-Badeeh M. Salem, 12th IEEE International Conference on Intelligent Computing and Information Systems ICICIS 2025, pp. 601-607.
doi: [10.1109/ICICIS66182.2025.11313199](https://doi.org/10.1109/ICICIS66182.2025.11313199)
- 4- "A Proposed Paradigm Using Data Mining to Minimize Online Money Laundering", Shima Ouf, Meram Ashraf and Mohamed Roushdy, Informatica 48 (2024), pp. 309 328.<https://doi.org/10.31449/inf.v48i3.6103>
- 5- "Attention-Driven Transfer Learning Model for Improved IoT Intrusion Detection", Salma Abdelhamid, Mostafa Aref, Islam Hegazy, **Mohamed Roushdy**, Big Data Cognitive Computing, 8, 116, MDPI, 2024.
<https://www.mdpi.com/2504-2289/8/9/116>
- 6- "ConvNeXt network with transfer learning for cumulative foot pressure images recognition", Ayman Iskandar, Marco Alfonse, **Mohamed Roushdy**, El-Sayed M. El-Horbaty, International Journal of Information Technology (Singapore), March 2024, <https://doi.org/10.1007/s41870-024-01759-4>
- 7- "TL-IDS: A Transfer Learning Technique for Botnet Detection in IoT", Salma Abdelhamid, Mostafa Aref, Islam Hegazy, **Mohamed Roushdy**, 6th International Conference on Computing and Informatics (ICCI), 6-7 March 2024, pp. 315 – 321.
DOI: [10.1109/ICCI61671.2024](https://doi.org/10.1109/ICCI61671.2024)
- 8- "Biometric systems for identification and verification scenarios using spatial footsteps components", Ayman Iskandar, Marco Alfonse, **Mohamed Roushdy**, El-Sayed M. El-Horbaty, Neural Computing and Applications, Volume 36, pp.3817–3836 Jan. 2024, <https://doi.org/10.1007/s00521-023-09390-3>
- 9- "Melanoma Of The Skin Cancer Diagnosis Using Support Vector Machine", Zeina Rayan; Islam Hegazy; Mohamed Roushdy; Abdel-Badeeh M. Salem, International Journal of Intelligent Computing and Information Sciences, IJICIS, Volume 24_Issue 1_Pages 12-19

- 10- "A Comparative Study of the Different Features Engineering Techniques Based on the Sensor Used in Footstep Identification and Analysis Using the Floor-Based Approach", Ayman Iskandar, Marco Alfonse, **Mohamed Roushdy**, El-Sayed M. El-Horbaty, International Journal of Intelligent Computing and Information Sciences, IJICIS, Volume 23, Issue 4, December 2023, Pages 66-95
- 11- "Optimizing anomaly-based attack detection using classification machine learning", Hany Abdelghany Gouda, Mohamed Abdelslam Ahmed and **Mohamed Ismail Roushdy**, Neural Computing and Applications, Vol. 36, 2023, pp. 3239 – 3257. <https://doi.org/10.1007/s00521-023-09309-y>
- 12- "GNNGLY: Graph Neural Networks for Glycan Classification", Alhasan Alkuhlani, Walaa Gad, **Mohamed Roushdy**, and Abdel-Badeeh M. Salem, IEEE Access, Volume 11, 2023, pp. 51838- 51847. [doi.10.1109/ACCESS.2023.3280123](https://doi.org/10.1109/ACCESS.2023.3280123)
- 13- "Proposed Framework for Financial Institutions Using Blockchain Technology", Hossam Mohamed Sherif, Ahmed Mohamed Abd El-Wahab, Sherif Adel Abd El-Aleem, and **Mohamed Ismail Roushdy**, International Journal on Recent and Innovation Trends in Computing and Communication, 2023, Volume: 11 Issue: 9, pp. 4446-4452. <https://doi.org/10.17762/ijritcc.v11i9.9938>
- 14- "An Improve the Onboarding Process in Trade Finance Applications Using Blockchain Technology", Ahmed Mohamed Abd El-Wahab, Sherif Adel Abd El-Aleem, Hossam Mohamed Sherif and **Mohamed Ismail Roushdy**, International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 11 Issue: 9, pp. 3361-3367. <https://doi.org/10.17762/ijritcc.v11i9.9542>
- 15- "Identification and Prediction of Kidney Diseases by Using Machine Learning Techniques", Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Journal of Positive Sciences (JPS), Volume(3), Issue: 5, (2023), Manuscript ID: ASP75091, pp.1-9.
- 16- "Prediction Of Customer Churn In The Banking Sector: Review", Salma Ahmed Hassanien, **Mohamed Roushdy**, Amr Galal, Reham Mohamed Younis Haggag, Journal of Southwest Jiaotong University, Vol 58, No. 4, pp. 719-735, <https://doi.org/10.35741/issn.0258-2724.58.4.55>.
- 17- "Coronavirus Classification using Deep Convolutional Neural Network, Models. And Chest ,X-ray images", Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Iraqi Journal for Computers and Informatics, Vol. 49, Issue 1, 2023, pp. 84-90.
- 18- "Prediction Of O-Glycosylation Site Using Pre-Trained Language Model And Machine Learning", Alhasan Alkuhlani, Walaa Gad, **Mohamed Roushdy**, and Abdel-Badeeh M. Salem, International Journal of Intelligent Computing and Information Sciences, IJICIS, Volume 23, Issue 1, 2023, pp. 41-52.
- 19- "A Hybrid Stacked CNN and Residual Feedback GMDH-LSTM Deep Learning Model for Stroke Prediction Applied on Mobile AI Smart Hospital Platform", Bassant M. Elbagoury, Luige Vladareanu , Mihai Rădulescu , Victor Vlădăreanu, Abdel Badeeh Salem, Ana-Maria Travediu and **Mohamed Ismail Roushdy**, Sensors, MDPI, Vol. 23, Issue 7, 2023, pp. 1-35. [doi.10.3390/s23073500](https://doi.org/10.3390/s23073500)
- 20- "Text-to-image generation based on AttnDM-GAN and DMAttn-GAN: applications and challenges", Razan Bayoumi1, Marco Alfonse, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Bulletin of Electrical Engineering and Informatics, Vol. 12, No. 2, April 2023, pp. 1180~1188
- 21- "O-glycosylation Site Prediction Using Randome Forest Importance and Support Vector Machine", Alhasan Alkuhlani; Walaa Gad; **Mohamed Roushdy**; Abdel-Badeeh M. Salem, 2022 IEEE 3rd International Conference on System Analysis & Intelligent Computing (SAIC), pp.84-88.

- 22- “PTG-PLM: Predicting Post-Translational Glycosylation and Glycation Sites Using Protein Language Models and Deep Learning”, Alhasan Alkuhlani, Walaa Gad, **Mohamed Roushdy**, Michael Gr. Voskoglou, Abdel-Badeeh M. Salem, axiom Journal, Special Issue "Mathematical Modeling", MDPI, 2022, Vol.11(9), 469-488. [doi.10.3390/axioms11090469](https://doi.org/10.3390/axioms11090469)
- 23- “PUStackNGly: Positive-Unlabeled and Stacking Learning for N-linked Glycosylation Site Prediction”, Alhasan Alkuhlani¹, Walaa Gad , **Mohamed Roushdy** , And Abdel-Badeeh M. Salem, IEEE Access Journal, Volume 10, 2022, pp.12702-12713. [DOI:1/ACCESS.2022.3146395](https://doi.org/10.1109/ACCESS.2022.3146395)
- 24- “Features processing for random forest optimization in lung nodule localization”, Nada S. El-Askary, Mohammed A. -M. Salem and **Mohamed I. Roushdy**, Expert Systems with Applications, Volume 193 (2022) 116489.pp1-7. <https://doi.org/10.1016/j.eswa.2021.116489>
- 25- “Road Network Extraction from Satellite Images: A Comparative Study”, Doaa M. A. Latif, Mohammed A. -M. Salem, **Mohamed Roushdy**, 2022 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS), 2022, 46-49.
- 26- “Shallow And Deep Learning In Footstep Recognition: A Survey”, Ayman Iskandar, Marco Alfonse, **Mohamed Roushdy**, El-Sayed M.El-Horbaty, 5th International Conference on Computing and Informatics (ICCI'2022) IEEE, pp. 364 - 368.
- 27- “Predicting Banking Customer Churn based on Artificial Neural Network”, Amany Zaky, Shima Ouf, **Mohamed Roushdy**, 5th International Conference on Computing and Informatics (ICCI'2022) IEEE, pp. 132 – 139.
- 28- “Multimodal Technique for Human Authentication Using Fusion of Palm and Dorsal Hand Veins”, Mona A. Ahmed, **Mohamed Roushdy**, and Abdel-Badeeh M. Salem, Smart Innovation, Systems and Technologies, New Approaches for Multidimensional Signal Processing 2022, Springer, Vol. 270, Chapter 4, pp. 63–78.
- 29- “Developing An Intelligent System For Predicting Bankruptcy”, Samar Ali, Marco Alfonse, **Mohamed Ismail Roushdy**, Abdel-Badeeh M. Salem, Journal Of Theoretical And Applied Information Technology, 2022, Vol. 100 No. 7, pp. 2068-2088.
- 30- “Road Network Generation From Satellite Images: Architecture Perspective”, Doaa M.-A. Latif, Mohammed A.-M. Salem, **Mohamed Roushdy**, Journal Of Southwest Jiaotong University, Vol. 57 No. 1, Feb. 2022., pp. 306-316, <https://doi.org/10.35741/issn.0258-2724.57.1.28>
- 31- “Brain Tumor Visualization for Magnetic Resonance Images using Modified Shape-based Interpolation Method”, Dina Mohammed Sherif El-Torky, **Mohamed Ismail Roushdy** ,Maryam Nabil Al-Berry, Mohammed Abd El-Megeed Salem, International Journal of Electrical and Computer Engineering (IJECE), Vol. 12, No. 3, 2022, pp. 2553–2563.
- 32- “Experimental Comparative Study on Autoencoder Performance for Aided Melanoma Skin Disease Recognition”, Zahraa Emad Diame, Maryam ElBery, Mohammed A.-M. Salem, **Mohamed Ismail Roushdy**, International Journal of Intelligent Computing and Information Sciences , Volume 22, Issue 1, February 2022, Page 88-97
- 33- “Autoencoder Performance Analysis Of Skin Lesion Detection”, Zahraa E. Diame Maryam N. Al-Berry , Mohammed A.-M. Salem, **Mohamed Roushdy**, Journal Of Southwest Jiaotong University, Volume 56 (6), 2021, pp. 938-947, <https://doi.org/10.35741/issn.0258-2724.56.6.82>
- 34- "A Deep Learning Framework To Improve Customer Retention", Amany Zaky, **Mohamed Roushdy**, Shima Ouf, Journal Of Southwest Jiaotong University, Volume 56 (6), 2021, pp. 285-296, <https://doi.org/10.35741/issn.0258-2724.56.6.24>

- 35- "A Survey on Learning-Based Intrusion Detection Systems for IoT Networks", Salma Abdelhamid, Mostafa Aref, Islam Hegazy, **Mohamed Roushdy**, 10th IEEE International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, December 5-6, 2021, pp. 284-295.
- 36- "Hyper-parameter Optimization of Convolutional Neural Network Based on Particle Swarm Optimization Algorithm", Zainab Fouad, Marco Alfonse, **Mohamed Roushdy** and Abdel-Badeeh Salem, Bulletin of Electrical Engineering and Informatics (BEEI), Vol 10, No 6: December 2021, pp. 3377-3384
- 37- "Heuristic Algorithm for Automatic Extraction Relational Data from Spreadsheet Hierarchical Tables", Arwa Awad, Rania Elgohary, Ibrahim Moawad and **Mohamed Roushdy**, International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 12, No. 10, 2021, pp. 743-748.
- 38- "A Hybrid Mutual Information-LASSO-Genetic Algorithm Selection Approach for Classifying Breast Cancer", Muhammed Abd-elnaby, Marco Alfonse, and Mohamed **Roushdy**, "Digital Transformation Technology", Proceedings of ITAF 2020 (Internet of Things: Applications & Future 2020), Springer, Part of Lecture Notes in Networks and Systems Volume 224, pp. 547-560.
- 39- "Review of Data Mining Techniques for Detecting Churners in the Telecommunication Industry", Mahmoud Ewieda, **Mohamed Ismail Roushdy**, Essam Shaaban, Future Computing and Informatics Journal, Volume 6, Issue 1, 2021, pp. 1-15.
- 40- "Using residual images with BSIF for iris liveness detection", Manar Dronky, Wael Khalifa and **Mohamed Roushdy**, Expert Systems With Applications Journal, Vol. 182, 2021, 115266. <https://doi.org/10.1016/j.eswa.2021.115266>
- 41- "Intelligent Techniques Analysis for Glycosylation Site Prediction", Alhassan Alkuhlani, Walaa Gad, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Current Bioinformatics, Volume 16, 2021, pp. 1-15.
- 42- "Deep Learning Architectures For Aided Melanoma Skin Disease Recognition: A Review ", Zahraa E. Diame, Maryam N. Al-Berry, Mohammed A.-M. Salem, **Mohamed Roushdy**, International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC 2021), pp. 324-329.
- 43- "An Interactive Tool For Extracting Low-Quality Spreadsheet Tables And Converting Into Relational Database", Arwa Awad, Rania ElGohary, Ibrahim Moawad, **Mohamed Roushdy**, International Journal of Intelligent Computing and Information Sciences, Vol. 21, No.1, 2021, pp. 1-18.
- 44- "Medical Images Watermarking Schemes-A Review", Alaa El-Saadawy  Ahmed El-Sayed; Maryam ElBery, **Mohamed Ismail Roushdy**, International Journal of Intelligent Computing and Information Sciences, Article 10, Volume 21, Issue 1, February 2021, Page 119-131.
- 45- "Intelligent Clustering Technique Based On Genetic Algorithm", ", Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, International Journal of Intelligent Computing and Information Sciences, Vol. 21, No.1, 2021, pp. 19-32.
- 46- "Classification of Breast Cancer Using Microarray Gene Expression Data: A Survey", Muhammed Abd-Elnaby, Marco Alfonse, **Mohamed Roushdy**, Journal of Biomedical Informatics, 117 (2021) 103764.
- 47- "Customer Retention: Detecting Churners in Telecoms Industry Using Data Mining Techniques", Mahmoud Ewieda, Essam M Shaaban, **Mohamed Roushdy**, International Journal of Advanced Computer Science and Applications (IJACSA), Volume 12, No.3 March 2021, pp. 216-224.
- 48- "Multi-view Convolutional Neural Network for lung nodule false positive reduction", Salsabil Amin El-Regaily, Mohammed Abdel Megeed Salem, Mohamed Hassan Abdel Aziz, **Mohamed Ismail Roushdy**, Expert Systems With Applications Journal, Volume 162, 30 December 2020, 113017. <https://doi.org/10.1016/j.eswa.2019.113017>

- 49- "Comparative Study of Computational Intelligence Paradigms For Intelligent Access Control Based on Biometrics Methodologies", Shaymaa Adnan Abdulrahman , Mohamed Roushdy , Abdel-Badeeh M. Salem, Journal of Mechanics Of Continua And Mathematical Sciences, Vol.-15, No.-8, August (2020) pp. 562-585.
- 50- "Artificial Intelligence for Glycation Site Prediction", Alhasan Alkuhlani, Walaa Gad, **Mohamed Roushdy** and Abdel-Badeeh M. Salem, ICTF 2020, IEICE Information and Communication Technology Forum, 10-12 of September 2020, DOI:[10.34385/proc.64.ICTF2020_paper_16](https://doi.org/10.34385/proc.64.ICTF2020_paper_16)
- 51- "Computational Intelligence for Financial Fraud Detection under Internet of Things Environment: Techniques, Opportunities and Challenges", Hossam Eldin M. Abd Elhamid, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, ICTF 2020, IEICE Information and Communication Technology Forum, 10-12 of September 2020, DOI:[10.34385/proc.64.ICTF2020_paper_18](https://doi.org/10.34385/proc.64.ICTF2020_paper_18)
- 52- "Bio-Inspired Computing for Credit Card Fraud Detection", Hossam Eldin M. Abd Elhamid, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Digital Ecosystem of Economy, Rostov-on-Don - Taganrog South Federal University Publishing House, Russian Federation, 2020.
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