



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
Sciences, Ain Shams University, Abbasiya 11566, Cairo, Egypt

Nationality : Egyptian.

Date of birth : 24/2/1958

Place of birth : Cairo, Egypt

Home Address : 4 Ghurnata St., Apt. 304, Roxy, Heliopolis, 11757, Cairo, Egypt

Office Address: Computer Science Department, Faculty of Computer and Information
Sciences, Ain Shams University, Abbasiya 11566, Cairo, Egypt

Mobile : (002)-01001083950 Whatsapp
(002)-01159455999

e-mail : mroushdy@cis.asu.edu.eg
miroushdy@hotmail.com

Web Page : <https://www.asu.edu.eg/staffPortal/en/staffProfile/8462>

Google scholar URL : <https://scholar.google.com.eg/citations?user=VtO69H4AAAAJ&hl=en>

Scopus Profile URL : <https://www.scopus.com/authid/detail.uri?authorId=36903823300>

ORCID URL : <https://orcid.org/0000-0002-9655-3229>

Web of Science : <https://www.webofscience.com/wos/author/record/AAM-7249-2020>

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- "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.
- 2- "A Proposed Paradigm Using Data Mining to Minimize Online Money Laundering", Shimaa Ouf, Meram Ashraf and Mohamed Roushdy, Informatica 48 (2024), pp. 309-328. <https://doi.org/10.31449/inf.v48i3.6103>
- 3- "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>
- 4- "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>
- 5- "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)
- 6- "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>
- 7- "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
- 8- "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
- 9- "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>

- 10- "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)
- 11- "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>
- 12- "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>
- 13- "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.
- 14- "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>.
- 15- "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.
- 16- "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.
- 17- "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)
- 18- "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
- 19- "O-glycosylation Site Prediction Using Random 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.
- 20- "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)
- 21- "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)

- 22- "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>
- 23- "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.
- 24- "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.
- 25- "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.
- 26- "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.
- 27- "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.
- 28- "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>
- 29- "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.
- 30- "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
- 31- "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>
- 32- "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>
- 33- "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.
- 34- "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
- 35- "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.

- 36- "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.
- 37- "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.
- 38- "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>
- 39- "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.
- 40- "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.
- 41- "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.
- 42- "Medical Images Watermarking Schemes-A Review", Alaa El-Saadawy  Ahmed El-Sayed2; Maryam ElBery, **Mohamed Ismail Roushdy**, International Journal of Intelligent Computing and Information Sciences, Article 10, Volume 21, Issue 1, February 2021, Page 119-131.
- 43- "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.
- 44- "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.
- 45- "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.
- 46- "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>
- 47- "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.
- 48- "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)
- 49- "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)
- 50- "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.
 - 51- "Improving the Design of Convolution Neural Network Architecture: Enhancement Methods, Applications and Challenges", Zainab Fouad, Marco Alfonse, **Mohamed Roushdy** and Abdel-Badeeh M. Salem, Proceeding of the 10th International Conference on Applied Internet and Information Technologies AIIT 2020 Conference, pp. 289-295.
 - 52- "Intelligent technique for human authentication using hand vein", Mona Ahmed, Mohamed Roushdy and AbdelBadeeh Salem, International Journal of Data Science, Vol.5, No. 4, 2020, pp.263-275.
 - 53- "Detection of Cross Site Scripting Attacks Model with Deep Transfer Learning", Shaimaa Khalifa Mahmoud, Marco Alfonse, **Mohamed Ismail Roushdy**, Abdel-Badeeh M. Salem, International Journal of Applications of Fuzzy Sets and Artificial Intelligence, Vol. 10 (2020), 197-206.
 - 54- "Protection of Patients' Data Privacy by Tamper Detection and Localization in Watermarked Medical Images", Alaa H. ElSaadawy, Ahmed S. ELSayed, M. N. Al-Berry and **Mohamed Roushdy**, Advances in Intelligent Systems and Computing, Springer, Vol.1261, pp.358-369, Proceedings of the International Conference on Intelligent systems and Informatics 2020.
 - 55- "Metadata Extraction for Low-Quality Semi-structured Spreadsheets", Awad, A., Elgohary, R., Moawad, I., **Roushdy, M.**, Advances in Intelligent Systems and Computing, Springer, Vol. 1153, pp. 448-457, Proceedings of the International Conference on Artificial Intelligence and Computer Vision (AICV2020)
 - 56- "Reversible Watermarking for Protecting Patient's Data Privacy Using an EPR-Generated QR Code", ElSaadawy, A.H., ELSayed, A.S., Al-Berry, M.N., **Roushdy, M.**, Advances in Intelligent Systems and Computing, Springer, Vol. 1153, pp. 750-761, Proceedings of the International Conference on Artificial Intelligence and Computer Vision (AICV2020).
 - 57- "Using K-Nearest Neighbors and Support Vector Machine Classifiers in Personal Identification based on EEG Signals" , Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. , International Journal of Computer Science and Information Security, IJCSIS May 2020 Volume 18 No. 5 .
 - 58- "Overview of Acquisition Techniques Brain Signals in Human Identification and Disease Diagnosis: Applications and Challenges", Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Test Engineering and management, Volume 83, May-June 2020, pp. 10564-10575.
 - 59- "Comparative study for 8 computational intelligence algorithms for human identification", Shaymaa Adnan Abdulrahman, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Computer Science Review, 36 (2020) 100237, pp1-11.
 - 60- "Support vector machine approach for human identification based on EEG signals" , Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-Badeeh M. Salem ,journal of mechanics of continua and mathematical sciences , February 2020, Vol.-15, No.-2, pp 270-280
 - 61- "Impact of segmentation on iris liveness detection", Manar Ramzy, Wael Khalifa and **Mohamed Roushdy**, 14th IEEE International Conference on Computer Engineering and Systems (ICCES 2019), 17-18 December 2019, Egypt, pp.386-392.

- 62- "Lung Nodule detection and Classification using Random Forest: A Review", Nada S. El-Askary, Mohammed A. –M. Salem and **Mohamed I. Roushdy**, 9th IEEE International Conference on Intelligent Computing & Information Systems (ICICIS 2019), 8-12 December 2019, Cairo, Egypt, pp. 110-116.
- 63- "Hybrid method for Modeling User Interests Based on Social Network", Marina Shafik, Rania Elgohary, Ibrahim Moawad and **Mohamed Roushdy**, 9th IEEE International Conference on Intelligent Computing & Information Systems (ICICIS 2019), 8-12 December 2019, Cairo, Egypt, pp. 67-72.
- 64- "A Review on Iris Liveness Detection Techniques", Manar Ramzy, Wael Khalifa and Mohamed Roushdy, 9th IEEE International Conference on Intelligent Computing & Information Systems (ICICIS 2019), 8-12 December 2019, Cairo, Egypt, pp. 47-58.
- 65- "Machine Learning Techniques for Credit Card Fraud Detection", Hossam Eldin M. Abd Elhamid , Wael Khalifa , **Mohamed Roushdy** , Abdel-Badeeh M. Salem, Future Computing and Informatics Journal, Vol. 4, Issue 2, 2019, pp. 98-112.
- 66- "Feature Extraction and Analysis for Lung Nodule Classification using Random Forest", NS El-Askary, MAM Salem, **MI Roushdy**, Proceedings of the 2019 8th International Conference on Software and Information Engineering ACM, pp. 248-252.
- 67- "Modelling meme adoption pattern on online social networks", Sarah Elsharkawy, Ghada Hassan, Tarek Nabhan and Mohamed Roushdy, Web Intelligence Journal Volume 17, 2019, pp.243–258.
- 68- "A Survey of Biometrics Using Electroencephalogram EEG", Shaymaa Adnan, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, International Journal "Information Content and Processing", Volume 6, Number 1, 2019, pp. 18-33.
- 69- "Masked SIFT with align-based refinement for contactless palmprint recognition", ELSayed, A.S., Ebeid, H.M., Roushdy, M. I., Fayed, Z.T., IET Biometrics, Volume 8, Issue 2, 1 March 2019, Pages 150-158.
- 70- "3D Visualization of Brain Tumors Using MR Images: A Survey", Dina Mohammed Sherif El-Torky, Maryam Nabil Al-Berry, Mohammed Abdel-Megeed Salem, **Mohamed Ismail Roushdy** , Current Medical Imaging Journal, **Volume 15 , Issue 4 , 2019, pp. 353 – 361.**
- 71- "Human Identification based on electroencephalography Signals using Sample Entropy and Horizontal Visibility Graphs", Shaymaa Adnan Abdulrahman, **Mohamed Roushdy**, Abdel-badeeh M. Salem, WSEAS Transactions on Signal Processing, Volume 15, 2019, pp. 47-54.
- 72- "Robust palm and knuckle ROI extraction in unconstrained environment", Ahmed S. ELSayed, Hala M. Ebeid, **Mohamed Roushdy** and Zaki T. Fayed, Pattern Analysis and Applications, Springer London, March 2019, pp 1–23.
- 73- "User Profiling Approaches, Modeling, and Personalization", Marina Farid, Rania Elgohary, Ibrahim Moawad & **Mohamed Roushdy**, 11th International Conference in Informatics & Systems INFOS'18, Cairo, Egypt, December 2018.
- 74- "AI Technologies for Mobile Health of Stroke Monitoring & Rehabilitation Robotics Control", B.M. Elbagoury, M.B.H.B. Shalhoub, **M.I. Roushdy**, Thomas Schrader, Book Chapter 7, Emerging Technologies for Health and Medicine: Virtual Reality, Augmented Reality, Artificial Intelligence, Internet of Things, Robotics, Industry 4.0 , WILEY, October 2018, pp. 90-103.
- 75- "Mobile Doctor Brain AI App: Artificial Intelligence for IoT Healthcare", Bassant M. Elbagoury, Ahmed A. Bakr and **Mohamed Roushdy**, Book Chapter 9, Emerging Technologies for Health and Medicine: Virtual Reality, Augmented Reality, Artificial Intelligence, Internet of Things, Robotics, Industry 4.0 , WILEY, October 2018, pp. 122-129.
- 76- "Web Service-based System for Hepatobiliary System Diseases Prognosis and Treatment", Galal AL Marzoqi, Marco Alfonse, Ibrahim F. Moawad, **Mohamed Roushdy**. The 13th International Conference on Computer Engineering and Systems (ICCES), IEEE, Cairo 2018, pp.47-55.

- 77- "Studying the Dissemination of the K-core Influence in Twitter Cascades", Sarah Elsharkawy, Ghada Hassan, Tarek Nabhan and **Mohamed Roushdy**, IFIP International Federation for Information Processing 2018 Published by Springer International Publishing AG 2018, IFIP AICT 519, Part of the IFIP Advances in Information and Communication Technology book series (IFIPAICT, volume 519), AIAI 2018: Artificial Intelligence Applications and Innovations pp.28-37, The International Conference on Artificial Intelligence Applications and Innovations (AIAI). Rhodes, Greece. 2018, pp. 28–37.
- 78- "Survey of Computer Aided Detection Systems for Lung Cancer in Computed Tomography", Salsabil El-Regaily Mohammed A. Salem, Mohammed H. Abdel Aziz, **Mohammed I. Roushdy**, Current Medical Imaging Reviews, 2018, 14, pp.3-18.
- 79- "Large-Scale Entity Clustering Using Graph-Based Structural Similarity within Knowledge Graphs", Mahmoud Elbattah, **Mohamed Roushdy**, Mostafa Aref, Abdel-Badeeh M. Salem., Big Data Analytics: Tools, Technology for Effective Planning, CRC Press. (Book Chapter 14), 2017, pp. 311-334.
- 80- " A Survey on the Finger Knuckle Prints Biometric", Mona A. Sadik, Maryam N. Al-Berry and **Mohamed Roushdy**, IEEE Eighth International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, pp. 197-204.
- 81- "A Robust Alignment-based Personal Recognition using Center Inner Knuckle Prints", Mona A. Sadik, Maryam N. Al-Berry and **Mohamed Roushdy**, IEEE Eighth International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, pp.84-91.
- 82- "Brain Tumor Segmentation using Wavelet Multiresolution Expectation Maximization Algorithm", Dina M. S. El-Torky, Maryam N. Al-Berry, Mohammed A. -M. Salem, **Mohamed. I. Roushdy**, IEEE Eighth International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, pp. 79-83.
- 83- "Lung Nodul Segmentation and Detection in Computed Tomography", Salsabil Amin El-Regaily, Mohammed Abdel Mageed Salem, Mohamed Hassan Abdel Aziz, **Mohamed Ismail Roushdy**, IEEE Eighth International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, pp.72-78.
- 84- " A Comparative Analysis for Cross Site Scripting (XSS) Detecting and Defensive Techniques", Shaimaa Khalifa Mahmoud, Marco Alfonse, **Mohamed Ismail Roushdy**, Abdel-Badeeh M. Salem, IEEE Eighth International Conference on Intelligent Computing and Information Systems (ICICIS2017), Cairo, Egypt, pp. 36- 42.
- 85- "Image Segmentation Methods for Identifying Submerged Particles of Low Contrast Images", Mayar A. A. Shafaey, Mohammed A.-M. Salem, Doaa A.-K. Hegazy, and **Mohamed I. Roushdy**, International Journal of Signal Processing Vol.2, 2017, pp. 115-120.
- 86- "Effectiveness of the K-core Nodes as Seeds for Influence Maximisation in Dynamic Cascades", Sarah Elsharkawy, Ghada Hassan, Tarek Nabhan and **Mohamed Roushdy**, International Journal of Computers Vol. 2, 2017, pp. 187-194.
- 87- "On the Reliability of Cascade Size as a Virality Measure", Sarah Elsharkawy, Ghada Hassan, Tarek Nabhan and **Mohamed Roushdy**, Proceedings of the European Conference on Electrical Engineering and Computer Science. Bern, Switzerland. 2017.
- 88- "FreebaseViz: Interactive Exploration of Freebase Schema Using Query-Driven Visualization", Mahmoud Elbattah, **Mohamed Roushdy**, Mostafa Aref, Abdel-Badeeh M. Salem. In Communication, Management and Information Technology: In Proceedings of the International Conference on Communication, Management and Information Technology (Iccmit 2016) (pp. 64-71). CRC Press.
- 89- "A Method for Contactless Palm ROI Extraction", Ahmed S. ELSayed, Hala M. Ebeid, **Mohamed Roushdy**, Zaki T. Fayed, 2016 Eleventh International Conference on Computer Engineering and Systems (ICCES), December 2016, pp. 193-200.
- 90- "Image Analysis for Particle Size Recognition of Bioprocesses in Liquid Environment", Mayar Aly Atteya, Mohammed A.M. Salem, Doaa Hegazy and **Mohammed Ismail**

- Roushdy**, Asian Journal of Applied Sciences, 9(4)2016, pp.170-177. DOI: 10.3923/ajaps.2016.170.177
- 91- "Image segmentation and particles classification using texture analysis method", Mayar Aly Atteya, Mohammed Abdel-Megeed Mohammed Salem, Doaa Abdel Karim Mohamed Hegazy, **Mohammed Ismail Roushdy**, Research in Biomedical Engineering, Vol. 32, No. 3, September 2016, pp.243-252.
<http://dx.doi.org/10.1590/2446-4740.03015>
- 92- "Exploiting Existed Medical Ontologies to Build Domain Ontology for Hepatobiliary System Diseases", Galal AL-Marzoqi, Marco Alfonse, Ibrahim F. Moawad, and **Mohamed Roushdy**, Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2016, Advances in Intelligent Systems and Computing 533, Springer International Publishing AG 2017, pp. 804-814.
- 93- "A proposed Real-Time EMG intelligent robot control algorithm based on swarm intelligence and neural networks", ElBagoury, Bassant Mohamed, Al-Amri, Jehad and **Roushdy, Mohamed**, *Communication, Management and Information Technology - Proceedings of the International Conference on Communication, Management and Information Technology, ICCMIT 2016* Pages 557 - 564 2017 International Conference on Communication, Management and Information Technology, ICCMIT 2016 Cosenza 26 April 2016 through 29 April 2016.
- 94- "Ontology-based Approach for Hepatobiliary System Diseases", Galal AL Marzoqi, Marco Alfonse, Ibrahim F. Moawad, **Mohamed Roushdy**, International Journal of e-Healthcare information Systems (Je-HIS), 2016, pp. 80-89.
- 95- "Machine Learning Techniques for Intelligent Access Control", Wael H. Khalifa, **Mohamed I. Roushdy** and Abdel-Badeeh M. Salem, **Book Chapter: New Approaches in Intelligent Image Analysis. Techniques, Methodologies and Applications**, Intelligent Systems Reference Library, Volume 108, Springer International Publishing Switzerland 2016, pp.331-352.
- 96- "Towards Feature Selection for Cascade Growth Prediction on Twitter", Sarah Elsharkawy, Ghada Hassan, Tarek Nabhan & **Mohamed Roushdy**, International Conference on Informatics & Systems (INFOS 2016), 9-11 May 2016, pp. 182-188.
- 97- "Protein Eight Secondary Structure Classes Prediction Using Artificial Neural Networks", Hanan Hendy, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, International Journal of Genomics, Proteomics, Metabolomics & Bioinformatics (IJGPMB), SciDoc Publisher, Infer, Interpret & Inspire Science, 1(4), 2016, pp. 17-19.
- 98- "The usage of machine learning paradigms on protein secondary structure prediction", Hanan Hendy, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, International Journal of Circuits and Electronics, Volume 1, 2016, pp.72-77, <http://www.iasas.org/iasas/journals/ijce>
- 99- "The Effect of Using Different Neural Networks Architectures on the Protein Secondary Structure Prediction", Hanan Hendy, Wael Khalifa, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, Egyptian Computer Science Journal, Vol. 40, No. 3, 2016, pp. 58-71.
- 100- "Extended Case-Based Behavior Control for Multi-Humanoid Robots", Meteb M. Altaf Bassant M. Elbagoury, Fahad Alraddady and **Mohamed Roushdy**, International Journal of Humanoid Robotics Vol. 13, No. 2 (2016), pp. 1550035-1 - 1550035-18, www.worldscientific.com
- 101- "EMGNEU: Mobile Health Application for Neuromuscular Disorders Diagnosis", Nahla F. Abdel-Maboud, Bassant Mohamed ELBagoury, **Mohamed Roushdy**, Abdel-

- Badeeh M. Salem, International Journal "Information Technologies & Knowledge" Volume 9, Number 1, 2015, pp. 11-24.
- 102- "The Usage of Neural Networks Paradigm in the Prediction of Protein Secondary Structure", Hanan Hendy, Wael Khalifa, **Mohamed Roushdy**, Abdel Badeeh Salem, Proceedings of the International Conference on Communications and Computers (CC 2015) Crete, Greece, October 17-19, 2015, pp. 14-17.
- 103- "Large-Scale Ontology Storage and Query Using Graph Database-Oriented Approach: The Case of Freebase", Mahmoud Elbattah, **Mohamed Roshdy**, M.Aref & A.Salem, IEEE 7th International Conference on Intelligent Computing and Information Systems (ICICIS), 2015.
- 104- "A Study of Intelligent Techniques for Protein Secondary Structure Prediction", Hanan Hendy, Wael Khalifa, **Mohamed Roushdy** & Abdel Badeeh Salem, International Journal "Information Models and Analyses", ITHEA International Scientific Society, Volume 4, Number 1, 2015, pp. 3-12.
- 105- "A Survey on Applying Ontological Engineering Approach for Hepatobiliary System Diseases", Galal AL Marzoqi, Marco Alfonse, Ibrahim F. Moawad, **Mohamed Roushdy**, ICIT 2015 The 7th International Conference on Information Technology, Amman, jordan, 12-15 May 2015, pp. 370-375.
- 106- "Exploring Domain Interrelations in Freebase Schema Using Modularity-Based Community Detection", Mahmoud Elbattah, **Mohamed Roshdy**, Mostafa Aref, Abdel-Badeh Salem, ICIT 2015 The 7th International Conference on Information Technology, Amman, jordan, 12-15 May 2015, pp. 443-448.
- 107- "A New Hybrid Classifier for Neuromuscular Disorders Diagnoses", Nahla F. Abdel Maboud, Bassant Mohamed ELBagoury, **Mohamed Roushdy** & Abdel-Badeeh M. Salem, Egyptian Computer Science Journal, Volume 39, Number 1, January 2015, pp. 86-92.
- 108- "3D graph-based vision-SLAM registration and optimization", Doaa M. A.-Latif, Mohammed A.-Megeed Salem, H. Ramadan and **Mohamed I. Roushdy**, International Journal of Circuits, Systems and Signal Processing, Volume 8, 2014, pp. 123-130.
- 109- "Graph-Driven Analysis and Visualization of Freebase Schema as a Directed Weighted Graph", Mahmoud Elbattah, **Mohamed Roshdy**, Mostafa Aref, Abdel-Badeh Salem, European Journal of Computer Science and Information Technology, Vol.2, No.4, December 2014, pp. 40-48.
- 110- "A Rough Set Approach for User Identification Based on EEG Signals", Wael Khalifa, **Mohamed I Roushdy**, Abdel-Badeeh M Salem, Egyptian Computer Science Journal Vol. 38 No.3 September 2014, pp.43-50.
- 111- "Stress Detection Using Multiple Bio-Signals", Wael Khalifa, Kenneth Revett, **Mohamed I. Roushdy**, Abdel-Badeeh M. Salem, International Journal "Information Technologies & Knowledge", ITHEA International Scientific Society, Volume 8, Number 3, 2014, pp.280-289.
- 112- "Design of Neural Network for Rehabilitation Robotics", Bassant M. Elbagoury, Thomas Schrader, Meteb M. Altaf, Sayed A. Banawan, **Mohamed Roushdy**,

- Proceedings of the 2014 International Conference on Circuits, Systems and Control (EUROPMENT), Interlaken, Switzerland, Feb. 22-24, 2014, pp.89-95.
- 113- "Exploring Freebase Potentials for Big Data Challenges.", Mahmoud Elbattah, **Mohamed Roushdy**, Mostafa Aref, Abdel-Badeh M. Salem. International Journal of Computer and Information Technology, Volume 03, no. 3, 2014.
- 114- "Classification Model of English Course e-Learning System for Slow Learners", Thakaa Z Mohammad, Abeer M Mahmoud, El-Sayed M El-Horbat, **Mohamed I Roushdy**, Abdel-Badeeh M Salem, Conference: WSEAS Proceedings of the 7th European Computing Conference (ECC '13), At Dubrovnik, Croatia, Volume: 1, Recent Advances in Information Science, Vol. 3, No. 7, 2013, pp.83-88.
- 115- "Temporal Association Rule Mining for Thrombosis Detection", Hana Alouaoui, Abeer M.Mahmoud, Yassine Turki, **Mohamed Roushdy**, Sami Faiz and Abdel Badeeh M. Salem, The Sixth International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 14-16, 2013, pp.215-219.
- 116-
" Remote Computer-Aided Breast Cancer Detection and Diagnosis System Based on Cytological Images", Yasmeen M. George, Hala H. Zayed, **Mohamed I. Roushdy**, Bassant M. Bagoury, IEEE Systems Journal Vol.8, No.3., Oct. 2013, pp.949-964.
- 117- "User Identification System Based on EEG Signals", Wael H. Khalifa, **Mohamed I. Roushdy**, Abdel-Badeeh M. Salem, The Sixth International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 14-16, 2013, pp. 297-302.
- 118- "Utilization of Levenberg-Marquardt based Neural Network Classifier in EMG signal Classification", Nahla Farid, Bassant Mohamed ELBagoury, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, The Sixth International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 14-16, 2013, pp. 363-368 .
- 119- "An e-learning Classification Model of Teaching English for Slow Learners", Thakaa Z. Mohammad, Abeer M. Mahmoud, El-Sayed M. El-Horbaty, **Mohamed Ismail Roushdy**, Abdel-Badeeh M. Salem, The Sixth International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, Dec. 14-16, 2013, pp.401-406.
- 120-
"Comparison of 3D Feature Registration Techniques for Indoor Mapping", Doaa M. A.-Latif, Mohammed A.-Megeed Salem, H. Ramadan, and **Mohamed I. Roushdy**, The 8th International Conference on Computer Engineering & Systems (ICCES), November 26-27, 2013, pp. 239-244.
- 121-
"AIS Inspired Approach for User Identification Based on EEG Signals", Wael H. Khalifa, **Mohamed I. Roushdy**, Abdel-Badeeh M. Salem, Kenneth Revett, Proceedings of the 4th European Conference of Computer Science (ECCS '13), Paris, France, October 29-31 2013, pp.84-89.
- 122-
"Comparison of Optimization Techniques for 3D Graph-based SLAM", Doaa M. A.-Latif, Mohammed A.-Megeed Salem, H. Ramadan, **Mohamed I. Roushdy**, Proceedings of the 4th European Conference of Computer Science (ECCS '13), Paris, France, October 29-31 2013, pp.217-221.
- 123-
" Automated Cell Nuclei Segmentation for Breast Fine Needle Aspiration Cytology", Yasmeen M. George, Bassant M. Bagoury, Hala H. Zayed, and **Mohamed I.**

- Roushdy**, Signal Processing Journal, Volume 93, Issue 10, October 2013, pp. 2804-2816.
- 124-
"Nested Graph Representation for Visual SLAM based on Local and Global Feature Processing", Sara Elgayar, Mohammed A.-Megeed Salem, **Mohamed I. Roushdy**, International Journal of Computer Applications, Volume 78, No.16, September 2013, pp.1-8.
- 125-
"A Grid based Medical Image Management System using Alchemi ", F. Maghraby, H. M. Faheem and **M. Roushdy**, International Journal of Computer Applications, Volume 78, No.4, September 2013, pp.10-16.
- 126-
"A Grid based Medical Image Retrieval System using Alchemi", Maghraby F., M. Faheem H., **Roushdy M.** and Amoon M., Proceedings of the 15th International Conference on Enterprise Information Systems (ICEIS), Angers, France. July, 2013, pp. 224-230.
- 127-
"A Hybrid Case-Based and Content-Based Retrieval Engine for Mobile Cancer Management System - MCMS ", Bassant Mohamed ElBagoury, Abdel Badeeh M.Salem, **Mohamed Ismail Roushdy**, International Journal of Bio-Medical Informatics and e-Health, Volume 1, No.1, June – July 2013, pp 15-19, <http://warse.org/ijbmieh-current.html>
- 128-
"A Comparative Analysis for Support Vector Machines for Stroke Patients" , Nahla Farid, Bassant Mohamed Elbagoury, **Mohamed Roushdy**, Abdel-Badeeh M. Salem, WSEAS Proceedings of the 7th European Computing Conference (ECC '13), Dubrovnik, Croatia, June 25-27, 2013, pp 71-76, www.wseas.org
- 129-
"Classification Model of English Course e-Learning System for Slow Learners", Thakaa Z. Mohammad, Abeer M. Mahmoud, El-Sayed M. El-Horbart, **Mohamed I. Roushdy**, Abdel-Badeeh M. Salem, WSEAS Proceedings of the 7th European Computing Conference (ECC '13), Dubrovnik, Croatia, June 25-27, 2013, pp 83-88, www.wseas.org.
- 130-
An Artificial Immune System for Identifying People using EEG", Wael H. Khalifa, Kenneth Revett, **Mohamed I. Roushdy**, Abdel-Badeeh M. Salem, WSEAS Proceedings of the 7th European Computing Conference (ECC '13), Dubrovnik, Croatia, June 25-27, 2013, pp 148-153, www.wseas.org
- 131-
"Design a Cost Effective Non-Holonomic Vehicle for Autonomous Driving Applications", Hatem A. Darweesh, **Mohamed Roushdy**, Hala M. Ebied, Bassant M. Elbagoury, WSEAS Proceedings of the 1st International Conference on Mathematics, Statistics & Computer Engineering (MSCE '13), Dubrovnik, Croatia, June 25-27, 2013, pp 91-96, www.wseas.org
- 132-
"Two-Level Topological Mapping and Localization Based on SIFT and The Wavelet Transform", Sara Elgayar, Mohammed A.-Megeed Salem, **Mohamed I. Roushdy**, WSEAS Proceedings of the 2nd International Conference on Circuits, Systems,

- Communications, Computers and Applications (CSCCA '13), Dubrovnik, Croatia, June 25-27, 2013, pp 155-160, www.wseas.org
- 133- "Breast Fine Needle Tumor Classification using Neural Networks", Yasmee M. George, Bassant M. Bagoury, Hala H. Zayed, and **Mohamed I. Roushdy**, "IJCSI International Journal of Computer Science Issues, Vol. 9, Issue 5, No 2, September 2012, pp. 247-256., www.IJCSI.org.
- 134- "A Multi-Modal Biosignal Based Approach to Stress Detection", Wael H. Khalifa, Abdel Badeeh Salem, Kenneth Revett and **Mohamed Roushdy**, The International eHealth, Telemedicine and Health ICT Forum For Education, Networking and Business (The 2012 edition of the Med-e-Tel event).18-20 April 2012, Luxembourg, pp 811-815 .
- 135- "A Survey of EEG Based User Authentication Schemes", Wael H. Khalifa, Abdel Badeeh Salem, Kenneth Revett and **Mohamed Roushdy**, 8th International conference on Informatics and systems INFOS 2012, 14-16 May 2012, Cairo, Egypt, pp. 55-57.
- 136- "Using GPU-Accelerated Genetic Algorithm for Non-Linear Motion Deblurring in a Single Image", Salsabil El-Regaily, M. Abd El-Aziz, H. El-Messiry, and **M. Roushdy**, The 8th International conference on Informatics and systems, INFOS2012, 14-16 May 2012, Cairo, Egypt, pp. 174-180.
- 137- "Non-Linear Motion Deblurring in Single Images Using Genetic Algorithms", Salsabil El-Regaily, H. El-Messiry, M. Abd El-Aziz and **M. Roushdy**, Proceeding of the 8th International Conference on Electrical Engineering, Cairo, Egypt, ICEENG 2012, 29-31 May, 2012, Vol. EE000, pp. 1-15.
- 138- "Single Image Motion Deblurring using Genetic Algorithms", Salsabil A. El-Regaily, Haythem El Messiry, Mohamed H. Abd El-Aziz and **Mohamed Roushdy**, 29th National Radio Science Conference (NRSC 2012), April 10-12, 2012, Faculty of Engineering, Cairo University, Egypt, pp. 325 - 333.
- 139- "Linear Motion Deblurring from Single Images Using Genetic Algorithms", S. El-Regaily, H. El-Messiry, M. Abd El-Aziz and **M. Roushdy**, 14th International Conference on Aerospace Sciences & Aviation Technology, ASAT 14 – Military Technical College, Cairo, Egypt, May 24 – 26, 2011, Vol.IP, pp. 204-214.
- 140- "Multi-channel Combined Local Global optical flow approach using photometric invariants", Sarah Elsharkawy, Haythem Elmessiry, and **Mohamed Roushdy**, International Journal of Intelligent Computing and Information Science, Cairo, Egypt, Vol.11, No. 1, January 2011, pp.143-152.
- 141- "A Survey of Techniques Used in Human Identification Based on Cognitive Biometrics: the Electroencephalogram", Wael H. Khalifa Abdel Badeeh Salem Kenneth Revett and **Mohamed Roushdy**, ICI 10 – 10th International Conference on Information at Delta University for Science and Technology Gamasa, 4-6 December 2010, Egypt.
- 142- "Quantization Table Estimation in JPEG Images", Salma Hamdy, Haytham El-Messiry, **Mohamed Roushdy**, Essam Kahlifa, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol.1, No.6, December 2010, pp.17-23, <http://ijacsa.thesai.org/>

- 143- "Retrieval of Bitmap Compression History", Salma Hamdy, Haytham El-Messiry, **Mohamed Roushdy**, Essam Kahlifa, (IJCSIS) International Journal of Computer Science and Information Security, Vol. 8 , No.8, Nov. 2010, pp.141-146.
- 144- "Implementation of Robotics Unified Control Language Runtime Engine using Microsoft Robotics Developer Studio", H. Darweesh, S. Ghoniemy, **M. Roushdy** and M. Aref., International Journal of Intelligent Computing and Information Science, Cairo, Egypt, Vol. 10, No. 1, January 2010, pp.75-85.
- 145- "A Proposed Robot-Unified Control Language (R-UCL) and its Support Engine.", H. Darweesh, **M. Roushdy**, M. Aref and S. Ghoniemy, Fourth International Conference on Intelligent Computing and Information Systems, March 19-22, 2009, Cairo, Egypt, pp 892-897.
- 146- "Detecting Coins with Different Radii based on Hough Transform in Noisy and Deformed Image", **Mohamed Roushdy**, ICGST International Journal of Graphics, Vision, and Image Processing GVIP, Vol. 7, Issue 1, April 2007, pp. 25-29, www.icgst.com
- 147- "Comparative Study of Edge detection Algorithms Applying on the Grayscale Noisy Image Using Morphological filter", **Mohamed Roushdy**, ICGST, International Journal of Graphics, Vision, and Image Processing GVIP, Vol. 6, Issue 4, Dec. 2006, pp. 17-23, www.icgst.com
- 148- "Case-Based and ontology learning approaches for developing e-Learning systems", **Roushdy, Mohamed** and Salem, Abdel-Badeeh M., *WSEAS Transactions on Information Science and Applications* Volume 2, Issue 6, Pages 795 - 804 June 2005.
- 149- "Mining Patient Data based on Rough Set Theory to Determine Thrombosis Disease", Abdel Badeeh M. Salem, **Mohamed Roushdy** and Safia A. Mahmoud, ICGST International Journal on Artificial Intelligence and Machine Learning AIML, Germany, Vol. VI, Dec. 2004, pp. 27-31, www.icgst.com
- 150- "A Case based Expert System for Supporting Diagnosis of Heart Disease", Abdel Badeeh M. Salem, **Mohamed Roushdy** and Rania A. HodHod, ICGST International Journal of Artificial Intelligence and Machine Learning AIML, Germany, Vol. VI, Dec. 2004, pp. 33-39, www.icgst.com
- 151- "A Methodology for Medical Diagnosis based on Fuzzy Logic", Mohamed A. Madkour and **Mohamed Roushdy**, Egyptian Computer Journal, Cairo, Egypt, Vol.26, No.1, January, 2004, pp.28-35.
- 152- "A Rule-Based Expert System for Diagnosis of Heart Diseases", Abdel-Badeeh M. Salem, **M. Roushdy** and Rania A. HodHod, 8th International Conference on Soft Computing MENDEL 2002, Brno, Czech Republic, June 5-7, 2002, pp. 258-263.
- 153- "Rough Set Approach for Predictive Rules to Thrombosis Disease", Abdel Badeeh M. Salem, **M. Roushdy** and Safia A. Mahmoud, Egyptian Computer Journal, Cairo, Egypt, Vol. 24, No. 1, January 2002, pp. 22-27.
- 154- "On Design of Compression Code for Image : Using Principal Component Analysis Neural Network", **M. Roushdy**, K. Nagaty, I. Hegazy and A. Mowafi, International Journal of Intelligent Computing & Information Science, Cairo, Egypt, Vol. 2, No.1, Jan. 2002, pp. 36-41.
- 155- "An Expert System for Diagnosing of Cancer Diseases", A. Salem, **M. Roushdy** and B. El-Bagoury, 7th International Conference on Soft Computing MENDEL 2001, Brno, Czech Republic, June 6-8, 2001, pp. 300-305.
- 156- "Time Reversal Transformation as a Reversible Cellular Automata for Visual Data Encryption", **M. Roushdy**, , Egyptian Computer Science Journal, Cairo, Egypt, July 1999, Vol.21, No. 2, pp.125-133.

- 157- "Developing a Case-Based Expert System for Diagnoses Dairy Cattle Diseases", **M. Roushdy**, H. Mansour and R. Anous, Egyptian Computer Science Journal, Cairo, Egypt, (January 1998), Vol.20, No.2, pp.77-84.
- 158- "Remote Sensing by Electromagnetic Waves Using the Concept of Tomography", **M. Roushdy**, P. Edenhofer and M. El-sharkawy, Egyptian Computer Science Journal, Cairo, Egypt, (January 1998), Vol.20, No.2, pp.27-39.
- 159- "Parameter Scaling in Back-Propagation Neural Networks", A. Goneid, **M. Roushdy** and H. Elswafy, presented at the Fifth International Conference on Artificial Intelligence Applications, Cairo, Egypt, (Feb. 27 - March 2, 1997), pp. 88-97.
- 160- "A Case-Based Reasoning Approach to Design a Prototype Expert System for Mineralogical Investigation", **M. Roushdy** and B. Elkalyobi, The Fifth International Conference on Artificial Intelligence Applications, Cairo, Egypt, (Feb. 27 - March 2, 1997), pp. 9-17 .
- 161- "Developing a Case-Based Expert System for Diagnoses of Upper Respiratory Infections", A. Salem and **M. Roushdy**, Egyptian Computer Science Journal, Cairo, Egypt, (July 1996), Vol. 18, No.2, pp. 73-82.
- 162- "The effect of learning rate and momentum on character recognition using mathematica software", A. Salem, S. Hendawi, **M. Roushdy**, Z. Abdelfattah, J. Micallef and M. Yuksel, Egyptian Computer Science Journal, Cairo, Egypt, (July 1995), Vol.17, No. 2, pp. 141-148.
- 163- "An Algorithm for Image Filtering Based on Penalty Function Approach", A. Goneid, A. Abdelaziz, **M. Roushdy** and T. Nazmy, The Second International Conference on Artificial Intelligence Applications, Cairo, Egypt, (Jan. 22-24, 1994), pp.251-263.
- 164- "Design of a Compression Code for Arabic Characters", A. Goned, M. Tolba, A. Salem and **M. Roushdy**, presented at 12th International Congress for Statistics, Computer Science, Science, Social and Demographic Research, Cairo, Egypt, (1987) pp. 271-282.