

Curriculum Vitae of ROMANY F. MANSOUR

Personal Information

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| Name | Romany Fouad Mansour | Gender | Male |
| Date of Birth | December 15, 1975 | WoS Researcher ID | AAB-6085-2021 |
| Workplace | New valley University | Job Title | Associate Professor |
| Phone | 00201201122629 | E-mail | romanyf@sci.nvu.edu.eg |
| Address | Department of Mathematics, Faculty of Science. New Valley University, El-Karaga, 72511, Egypt . | | |
| Homepage | http://www.aun.edu.eg/membercv.php?M_ID=3852 | | |

Academic Qualifications

1. Demonstrator at the Department of Science and Mathematics, Faculty of Education, New Valley, Assiut University, Egypt, 2001-2006 (full-time postgraduate studies during this period).
2. Assistant Lecturer at the Department of Science and Mathematics, Faculty of Education, New Valley, Assiut University, Egypt
3. Assistant Prof at the Department of Science and Mathematics, Faculty of Education, New Valley, Assiut University, Egypt, February 2009-up to 2011.
4. Assistant Prof. at the Department of Computer Science, Faculty of Science, Northern Border University, KSA. 2011-up to 2019.
5. Associate Prof. at the Department of Mathematics, Faculty of Science, New Valley University, Egypt 2020-up to now.

Research Interests

- Artificial Intelligence
- Machine Learning
- Big Data & IoT
- Soft Computing
- Intelligent Systems
- Biomedical

Programs and Workshops

| No. | Program Name | Period |
|-----|---|--------------------|
| 1 | University Teacher Preparation | 19-31 July 2003 |
| 2 | Effective Communication Skills | 9-12 May 2005 |
| 3 | Effective Presentation Skills | 17-20 October 2005 |
| 4 | Effective Teaching | 11-8 May 2006 |
| 5 | Code of Ethics | 1-3 October 2006 |
| 6 | Use of Technology in Teaching | 9-7 October 2006 |
| 7 | Preparation and Writing of Scientific Research | 27- 29 Jan. 2007 |
| 8 | Thinking Skills | 10-12 March 2007 |
| 9 | Recent trend in Teaching | 4-2 April 2007 |
| 10 | Training for the large and Mini-teaching | 5- 7 June 2007 |
| 11 | International Law Program for Human Rights I | 3- 7 February 2008 |
| 12 | International Law Program for Human Rights II | 2-5 February 2009 |
| 13 | Credit Hours System | 18-20 July 2009 |
| 14 | Research Team Management | 25-27 July 2009 |
| 15 | How to Compete for a Research Fund | 1-3 August 2009 |
| 16 | Strategic Planning | 8-10 August 2009 |
| 17 | Time and Conference Management | 15-17 August 2009 |
| 18 | Student Evaluation | 15-17 August 2009 |
| 19 | Preparation the Course Electronic | 5-7 April 2010 |
| 20 | E- Learning | 4-2 May 2010 |
| 21 | Exam systems and evaluation of students | 22 May 2012 |
| 22 | Establishment of Institutional Quality Assurance System | 18 March 2013 |
| 23 | Programs and Learning Outcomes in the light of the N.Q.F. | 22 April 2013 |
| 24 | Program Assessment (Specifications-Reports) | 6 May 2013 |
| 25 | Program Specification | 13 May 2013 |
| 26 | Development of the college mission and vision | 2 Sept. 2013 |
| 27 | Use of electronic information sources | 17 Sept. 2013 |
| 28 | Programs and coursers' reports | 30 Sept. 2013 |
| 29 | Field experience specifications and reports | 28 October 2013 |
| 30 | Report writing in the quality system | 18 November 2013 |
| 31 | Institutional preparation for initial self evaluation | 3 December 2013 |
| 32 | Evaluation of the academic programs | 10 December 2013 |
| 33 | The international academic accreditation and their recognition in KSA | 23 December 2013 |
| 34 | Blackboard | 18 -16 March 2014 |
| 35 | The art of presentation | 3-2 March 2015 |
| 36 | Electronic course preparation | 12-15August 2017 |
| 37 | E-Leaning | 2-4 May 2018 |

Teaching

1. Experience in teaching undergraduate courses in computer science, programming languages, linear algebra, and Mathematics in faculty of Education, New valley, Assiut University.
2. Experience in teaching undergraduate courses in Computer Architecture, Computer Theory, Software engineering, Database Management and – Introduction to Operating Systems in Faculty of Science (Suez), Suez Canal University. From 1/7/2009 to 1-2-2010
3. Experience in teaching undergraduate courses in Analysis and design algorithms, File Organization, Formal Languages and Fundamental of data structure programming in Faculty of computers and information Minia University. From 3/10/2009 to 3-2011
4. Experience in teaching undergraduate courses in Software Documentation, Artificial Intelligence, Networks, Programming, Pattern Recognition, Simulation, Digital Logic, Numerical Analysis, Data structure, graduate projects, in Faculty of Science Northern Border University KSA. . From 1/5/2011 to 15-5-2019
5. Experience in teaching postgraduate courses in Data Analysis, Artificial Intelligence,
6. Teaching for both Undergraduate postgraduate courses at faculty of Science New Valley University from 15-5-2019 until now

Others activate:

- Member of the Quality and Accreditation Unit at the New Valley Faculty of Education from 2007- to 2011
- Trainer at the Computer, Languages and Translation Center at the New Valley Faculty of Education from 2003- until now
- Designer and developer of the college's Homepage
- Participation in the students activities in the New Valley Faculty of Education
- Head of electronic documentation and database team in (CIQAP)
- Chosen in Who's Who in the World 2011 (28th Edition)
- Head of the Quality and Accreditation Unit at the NBU, Faculty of Science from 2011-2018

- Head of Department of Computer Science, Faculty of Science N.B.U from 2013- to 2014
- Head of the Information Technology Unit at, Faculty of Science from 2021 until now

Reviewer for journals, such as PLOS ONE, , Big Data, Knowledge-Based Systems, Sustainable Cities and Society, , Soft Computing, IEEE Access, IEEE Transactions on Industrial Informatics, Distributed and Parallel Databases, Knowledge Management Research and Practice, Journal of Ambient Intelligence and Humanized Computing, Journal of Medical and Biological Engineering, cluster computing, Environmental Earth Science, Energy Systems, Earth Science Informatics, Informatica, Sustainable Computing: Informatics and Systems, Journal of Parallel and Distributed Computing and CMC-Computers, Materials & Continua.

Reviewer for grant, such as: King Abdullah International Medical Research Center “RC19/316/R : Computer-aided diagnosis systems for multiple diseases including; breast cancer and diabetic retinopathy”

List of Conferences

| | |
|---|---|
| 1 | Mansour, R. F. , "A Robust Approach to Multiple Views Gait Recognition Based on Motion Contours Analysis," WIAR '2012; National Workshop on Information Assurance Research; Proceedings of, vol., no., pp.1-7, 18 April, 2012 - Suadia Arabia . |
| 2 | Romany F. Mansour , Abdulsamad Al-Marghilnai, Meshrif Alruily, ‘Gender Classification based on Fingerprints using SVM’, International Conference on Agents and Artificial Intelligence (ICAART 2014) – France . |
| 3 | E. Md. Abdelrahim, Abdulsamad Al-Marghilnai, Romany F. Mansour , ‘Shadow Detection and Geo-tagged Image Information Based Strategic Infrastructure Characterization’, International Conference on Recent Innovations in Engineering and Technology (ICRIET), Amsterdam , Netherlands on 9-10 march 2018 . |
| 4 | Romany F. Mansour , Abdulsamad Al-Marghilnai and Zahar A. Hagas , Use of artificial intelligence techniques to determine dental caries: A systematic review. The 4th International Conference on Applied Mathematics And Computer Science (AMACS 2019) - Venice, Italy , March 24-26, 2019 |
| 5 | Sundar Santhoshkumar , Uma Ramasamy, Romany F. Mansuour, E., Ramaraj “ A Review on Statistical Importance and Biomarkers Identification in Hashimoto Thyroiditis Disease.”11th International Conference-CONFLUENCE’ 2021 |

BOOKS

1- **Romany F. Mansour,"Deformed Fingerprints"**, Publisher: LAP Lambert Academic Publishing (December 2011) Language: English, ISBN-10: 3847309706, ISBN-13: 978-3847309703

2- **(BOOK CHAPTER) Genetic Algorithms Theories and Applications"**, Publisher: LAP LAMBERT Academic Publishing (March 22, 2012), Language: English, ISBN-10: 3848447088,ISBN-13: 978-3848447084.

3- **(BOOK CHAPTER), "Understanding How Big Data Leads to Social Networking Vulnerability."** Big Data in Engineering Applications. Springer, Singapore, 2018. 193-201.

4-**(BOOK CHAPTER), Mansour, R. F., & Aljehane, N. O. (2021). A novel compressive sensing with deep learning–based disease diagnosis model for smart wearable healthcare devices.** Wearable Telemedicine Technology for the Healthcare Industry: Product Design and Development, 87.

Publications

- [1] Adel A. Sewisy, Moheb R. Girgis and Romany Fouad," A GENETIC ALGORITHM FOR LINE DETECTION", **International Journal of Applied Mathematics**, IJAM, Volume 18 No. 1, PP. 117-133, 2005
- [2] M. R. Girgis , A. A. Sewisy and R. F. Mansour," Verification of Partially Deformed Fingerprints Relying on Evolutionary Algorithms", **ICGST, International Journal on Graphics, Vision and Image processing**, Vol. 7, Issue 1, PP. 43-49, April, 2007
- [3] M. R. Girgis , A. A. Sewisy and R. F. Mansour," Employing Generic Algorithms for precise Fingerprint Matching based on Line Extraction", **ICGST, International Journal on Graphics, Vision and Image processing**, Vol. 7, Issue 1, PP. 51-59, April, 2007
- [4] M. R. Girgis, A. A. Sewisy and R. F. Mansour," A Robust Method for Fingerprint Matching Using Genetic Algorithm", **International Review on Computers and Software (IRE.CO.S.)**, vol. 2, n.4, July 2007.
- [5] M.R. Girgis, A. A. Sewisy and R. F. Mansour," A Robust Method for Partial Deformed Fingerprints Verification Using Genetic Algorithm", **Expert Systems with Applications**, vol. 36, pp. 2008-2016, 2009
- [6] M. R. Girgis, A. A. Sewisy and R. F. Mansour, "Influence of Minutiae Number in Deformed Fingerprints Reconstruction for Improving Fingerprints Verification", **International Journal of Computers and Applications**, Vol. 31, No. 1, 2009
- [7] R. F. Mansour,"A Robust Method for Shape from Shading Using Genetic Algorithm Based on Matrix Code", **American Journal of Computational and Applied**

Mathematics, Volume 1, No 1, pp.33-40 , 2011

- [8] R. F. Mansour, "A Robust Method for Arabic Car Plates Recognition and Matching Using Chain Code" **American Journal of Computational and Applied Mathematics** Vol.2, No.3, 2012.
- [9] R. F. Mansour "Using Genetic Algorithm for identification of diabetic retinal exudates in Digital colour images", **Journal of Intelligent Learning Systems and Applications**, Volume 4, No 3, 2012.
- [10] Romany F. Mansour "Multiple Views Effective for Gait Recognition Based on Contours, **Computer Engineering and Intelligent Systems**, pp. 50-62" Vol 3, No 10 , 2012.
- [11]R. F. Mansour, W. F. Awwad and A. A. Mohammed, "A Robust Method to Detect Hidden Data from Digital Images," **Journal of Information Security**, Vol. 3 No. 2, 2012, pp. 91-95. doi: 10.4236/jis.2012.3, 2011.
- [12]Mansour, R. F., "A Robust Approach to Multiple Views Gait Recognition Based on Motion Contours Analysis," **WIAR '2012; National Workshop on Information Assurance Research**; Proceedings of, vol., no., pp.1-7, 18-18 April 2012.
- [13]Romany F. Mansour and AbdulSamad A. Marghilani "A New Technique to Fingerprint Recognition Based on Partial Window", **Computer Engineering and Intelligent Systems**, pp. 63-75" Vol 3, No 10 ,2012
- [14]R. F. Mansour, E. Md. Abdelrahim, Amna S. Al-Johani, " Identification of Diabetic Retinal Exudates in Digital Color Images Using Support Vector Machine, **Journal of Intelligent Learning Systems and Applications**, Vol 5, No 3, 2013.
- [15]R. M. Farouk, Atef A. Galal and Romany F. Mansour, "Multiple interacting objects tracking based on generalized Probabilistic distribution function", **Wulfenia Journal**, Vol 20, No. 6; Jun 2013.
- [16]Romany F. Mansour, AbdulSamad A. Marghilani "Estimating facial features from skull data using ridge regression", **Wulfenia Journal**, Vol 20, No. 9; Sep. 2013
- [17]Romany F. Mansour and AbdulSamad A. Marghilani" Estimate velocity and track of objects based on probabilistic distribution functions". **International journal of Computer Engineering & Technology** (IJCET).Volume:4, Issue:5,Pages:172-181, 2013.
- [18]AbdulSamad A. Marghilani, Ahmed. F. Al-Hossainy, R. F. Mansour," Support vector machine for simultaneous determination of ultra trace concentrations of copper and cadmium in serum of patients with chronic hepatitis by adsorptive stripping voltammetry", **Chemistry and Materials Research**, Vol. 3, No. 11, 2013.
- [19]Romany F. Mansour, Abdulsamad Al-Marghilnai, Meshrif Alruily, 'Gender Classification based on Fingerprints using SVM', **International Conference on Agents and Artificial Intelligence** (ICAART 2014).
- [20]RF Mansour, KA Buragga, ES Abdelrahim , Forecasting the occurrence of hepatitis in northern areas in Saudi Arabia, **International Journal of Academic Research** 8 (4), 5-8, 2016.
- [21]El-Saied Abdelrahim, Khalid Buragga, Romany Mansour", Confidential text

- communication with Tabu search based acoustic steganography”, *SYLWAN journal*, Vol. 159, Issue 2, 2015.
- [22]R. F. Mansour, E. MD. Abdelrahim, El-Sayed Atlam, A New Method to Build NLP Knowledge for Improving Term Disambiguation, *International Journal of Advanced Computer Science and Applications* 7 (7), 21-30 2016
- [23]R. F. Mansour, Understanding how big data leads to social networking vulnerability, *Computers in Human Behavior*, Vol.57, PP. 348-351, 2016.
- [24]R. F. Mansour, Using adaptive mutation to accelerate the convergence of immune algorithms for prediction of 3D molecular structure, *International Journal of Computers and Applications* 37 (4), 1-7, 2016
- [25]Romany F. Mansour, Iris Recognition Using Gauss Laplace Filter, *American Journal of Applied Sciences* 13 (9), 962-968, 2016.
- [26]Romany Mansour, S Hosni, “Recent Advances in Markov Logic Networks”, *Indian Journal of Science &Technology* 10 (19), 2017.
- [27]Romany F. Mansour, Evolutionary computing enriched ridge regression model for craniofacial reconstruction, *Multimedia Tools Applications*, 79, pages 22065–22082, 2020.
- [28]A Al-Marghilnai, R.F. Mansour, Wavelet filter techniques for segmenting retinal blood vessels, *International Journal of Advanced and Applied Sciences* 4 (9), 2017.
- [29]Romany F. Mansour, Deep-learning-based automatic computer-aided diagnosis system for diabetic retinopathy, *Biomed. Engineering Letters*, vol (8), pp. 41–57,2018.
- [30] Romany F. Mansour, Evolutionary Computing Enriched Computer Aided Diagnosis System For Diabetic Retinopathy: A Survey, *IEEE Reviews in Biomedical Engineering*. 10 (1), 334-349 , 2017
- [31]Romany F Mansour, Real-Time Iris Tracking-based on a Generalized Probabilistic Particle Filter, *Indian Journal of Science &Technology* 10 (32), 2017.
- [32]E. Md. Abdelrahim, Abdulsamad Al-Marghilnai, Romany F. Mansour, ‘Shadow Detection and Geo-tagged Image Information Based Strategic Infrastructure Characterization’, *International Conference on Recent Innovations in Engineering and Technology* (ICRIET), Amsterdam, Netherlands on 9-10 march 2018.
- [33]Abdulsamad Al-Marghilnai, Romany F. Mansour ‘Applying evolutionary computing to accelerate for melanoma cancer detection’ *INTERNATIONAL JOURNAL OF ADVANCED AND APPLIED SCIENCES* 5 (12), 36-41, 2018
- [34]Romany F. Mansour and E. Md. Abdelrahim, “An Evolutionary Computing Enriched RS Attack Resilient Medical Image Steganography Model for Telemedicine Applications”, *Multidimensional System and Signal processing*, 30:791-418, 2019.
- [35]Romany F Mansour, A Al-Marghilnai, ZA Hagas, “Use of artificial intelligence techniques to determine dental caries: A systematic review”, 2019
- [36]Romany F Mansour “ A Robust Deep Neural Network Based Breast Cancer Detection and Classification”, *International Journal of Computational Intelligence and*

- [37] AB Miled, R Dhaouadi, Romany F Mansour, " Knowledge Deduction and Reuse Application to the Products' Design Process", *International Journal of Software Engineering and Knowledge Engineering* 30(2) 2020
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- [42] S. Santhoshkumar, U. Ramasamy, R. F. Mansour and E. Ramaraj, "A Review on Statistical Importance and Biomarkers Identification in Hashimoto Thyroiditis Disease," 2021 11th International Conference on **Cloud Computing, Data Science & Engineering (Confluence)**, 2021, pp. 1040-1045, doi: 10.1109/Confluence51648.2021.9377133.
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- [44] Y. Xue, X. Cai, S. Su, J. Han and R. F. Mansour, "The technical design and implementation of cross-platform industrial product order system," **Journal of Cyber Security**, vol. 3, no.1, pp. 1–10, 2021.
- [45] RF Mansour, MM Althobaiti, AA Ashour, " Internet of Things and Synergic Deep Learning based Biomedical Tongue Color Image Analysis for Disease Diagnosis and Classification", *IEEE Access*, 2021
- [46] RF Mansour, J Escorcia-Gutierrez, M Gamarra, JA Villanueva, N Leal, "Intelligent video anomaly detection and classification using faster RCNN with deep reinforcement learning model", **Image and Vision Computing**, 104229, 2021
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- [49] P Nagaraj, P Deepalakshmi, FM Romany and Ahmed Almazroa, "Artificial Flora Algorithm-Based Feature Selection with Gradient Boosted Tree Model for Diabetes Classification, **Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy** 14,

2789, 2021

- [50] NO Aljehane, RF Mansour, “ Big data analytics with oppositional moth flame optimization based vehicular routing protocol for future smart cities”, *Expert Systems*, e12718
- [51] A Aouari, Y Xue, RF Mansour, S Su, A Hybrid Algorithm based on PSO and GA for Feature Selection, **International Journal of Recent Research in Mathematics Computer Science and Information Technology**, Vol. 8, Issue 1, pp: 1-8, 2021
- [52] Mansour, Romany F., Nada M. Alfar, Sayed Abdel-Khalek, Maha Abdelhaq, Rashid A. Saeed, and Raed Alsaqour. "Optimal deep learning based fusion model for biomedical image classification." *Expert Systems*: e12764.
- [53] Mansour, Romany F., and Shabir A. Parah. "Reversible Data Hiding for Electronic Patient Information Security for Telemedicine Applications." *Arabian Journal for Science and Engineering* (2021): 1-16.
- [54] Mansour, Romany F., Shaha Al-Otaibi, Amal Al-Rasheed, Hanan Aljuaid, Irina Pustokhina, and Denis A. Pustokhin. "An Optimal Big Data Analytics with Concept Drift Detection on High-Dimensional Streaming Data." *CMC-COMPUTERS MATERIALS & CONTINUA* 68, no. 3 (2021): 2843-2858.
- [55] Mansour, Romany F., and Moheb R. Girgis. "Steganography-Based Transmission of Medical Images Over Unsecure Network for Telemedicine Applications." *CMC-COMPUTERS MATERIALS & CONTINUA* 68, no. 3 (2021): 4069-4085.
- [56] Al-Otaibi, Shaha T., Amal Al-Rasheed, Romany F. Mansour, Eunmok Yang, Gyanendra Prasad Joshi, and Woong Cho. "Hybridization of Metaheuristic Algorithm for Dynamic Cluster-based Routing Protocol in Wireless Sensor Networks." *IEEE Access* (2021).
- [57] Mansour, Romany F., José Escorcía-Gutierrez, Margarita Gamarra, Vicente García Díaz, Deepak Gupta, and Sachin Kumar. "Artificial intelligence with big data analytics-based brain intracranial hemorrhage e-diagnosis using CT images." *Neural Computing and Applications* (2021): 1-13.
- [58] Muthumayil, K., Manikandan, S., Srinivasan, S., Escorcía-Gutierrez, J., Gamarra, M. et al. (2021). Diagnosis of Leukemia Disease Based on Enhanced Virtual Neural Network. **CMC-Computers, Materials & Continua**, 69(2), 2031–2044.
- [59] Ragab, M., Algarni, A., Bahaddad, A. A., Mansour, R. F. (2021). Machine Learning Applied to Problem-Solving in Medical Applications. **CMC-Computers, Materials & Continua**, 69(2), 2277–2294.
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- [64] Xue, Y., Chen, C., Wang, C., Li, L., Mansour, R. F. (2021). Face Image Compression and Reconstruction Based on Improved PCA. **Intelligent Automation & Soft Computing**, 30(3), 973–982.
- [65] Aswathy, R. H., Suresh, P., Sikkandar, M. Y., Abdel-Khalek, S., Alhumyani, H. et al. (2022). Optimized Tuned Deep Learning Model for Chronic Kidney Disease Classification. **CMC-Computers, Materials & Continua**, 70(2), 2097–2111.
- [66] Muthumayil, K., Buvana, M., Sekar, K. R., Amraoui, A. E., Nouaouri, I. et al. (2022). Optimized Convolutional Neural Network for Automatic Detection of COVID-19. **CMC-Computers, Materials & Continua**, 70(1), 1159–1175.
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Design of Automated Opinion Mining Model Using Optimized Fuzzy Neural Network. *CMC-Computers, Materials & Continua*, 71(2), 2543–2557.

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Academic Media

1- Google Scholar

<https://scholar.google.com/eg/citations?user=0Gv-hsMAAAAJ&hl=en>

2- Scopus

<https://www.scopus.com/authid/detail.uri?authorId=36960713000>

3- ORCID

<https://orcid.org/0000-0001-5857-8495>