Malik Yousef

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Google Scholar:
https://scholar.google.com/citations?user=9UCZ_q4AAAAJ&hl=en&oi=ao

Google Scholar

Citation indices	All	Since 2012
Citations	2312	1354
h-index	18	16
i10-index	20	18

Please note: *** Indicates since my last promotion**

Academic Education

1997-2002	Ph.D., Mathematics and Computer Sciences –University of Haifa, Haifa Israel
1993-1996	M.A., Mathematics and Computer Sciences -University of Haifa, Haifa, Israel (Graduated CUM LAUDE)
1991-1993	B.A., Mathematics and Computer Sciences - University of Haifa, Haifa, Israel
1998	EC Summer School, Bayesian Signal Processing, Isaac Newton Institute for Mathematical Sciences, At the Newton Institute, Cambridge, UK
2001-2002	Post-doctorate, The Caesarea Edmond Benjamin de Rothschild Foundation, Institute for Interdisciplinary Applications of Computer Sciences, University of Haifa, Israel
2003-2004	Post-doctoral Fellow, University of Pennsylvania (UPENN)
2004-2007	Post-doctoral Fellow, Molecular and Cellular Oncogenesis and immunology Programs, Wistar Institute, USA.
2005	Intelligent Extraction of Information from Graphs and High

Dimensional Data. The Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA

2012-2014 *Training for education system management, The University of Haifa, Israel

Academic Posts

2016 Assistant professor, Senior Member, Zefat Academic College , Community Information Systems. Israel.

2009-2016 Assistant professor (Senior Lecture), The College of Sakhnin Academic College of Education. Israel.

2007-2015 Senior Researcher, Genetic Diseases and Bioinformatics, The Institute of Applied Research, The Galilee Society, Israel

2008-2011 Researcher, Computer Sciences Department, Haifa University.

Research Interests and Skills

- Bioinformatics, Machine Learning, Text Mining, Data Science, Big Data, Deep learning
- Knime Analytic Tool, Java, Matlab, C, C++,C#, Python, R, Linux, Shell Script, Perl

Scientific and Professional Publications

Ph.D. -Thesis, *"Automated Document Classification Trained with Positive Examples Exclusively*. Mathematics and Computer Sciences - University of Haifa, Israel. Thesis Advisor: Prof. Larry Manevitz.

M.A -Thesis, "*Automatic Mesh Generation Using Self-Organizing Neural Networks*. Mathematics" and Computer Sciences - University of Haifa, Israel. Thesis Advisor: Prof. Larry Manevitz, Co-Advisor: Prof . Dan Givoli, Technion, Israel Institute of Technology.

Patents

1. *****U.S. Provisional Patent Application No. 61/005,569 (29/12/2009). Recursive

Cluster Elimination (RCE) for Classification and Feature Selection from Gene Expression, with Prof. Louise Showe, Wistar Institute.

2. *PCT Patent Application No. PCT/US2008/013450 (29/12/2009). Method for Diagnosing Lung Cancers using Gene Expression Profiles in Peripheral Blood Mononuclear Cells., with Prof. Louise Showe, Wistar Institute.

Books Publications

Books

1. *** Malik Yousef** and Jens Allemer (2014), Editors of volume - *miRNomics: MicroRNA Biology and Computational Analysis*. Series: Methods in Molecular Biology, Volume **No.:** 1107, ISBN**:** 978-1-62703-747-1, 320 pages, Humana Press, USA (Part of the Springer publishing group). **(50,000 downloads)GS-Cited: 1**

2. ***Malik Yousef** (2009), *One-class Document Classification: One-class Document Classification via Neural Networks and Support Vector Machines***,** SBN 978-3-639-14869-5. 108 pages. Publisher**:** VDM Verlag, Saarbrücken, Germany.

Chapters in Books

3. *Muserref Duygu Sacar Demirci, **Malik Yousef**, and Jens Allmer(2017). Computational prediction of functional microRNA – mRNA interactions.(In preparation for Humana Press, USA (Part of the Springer publishing group))

4. *Hamid Hamzeiy, Jens Allmer, and **Malik Yousef** (2014). Computational Methods for MicroRNA Target Prediction. In **Malik Yousef** and Jens Allemer(Eds.), miRNomics: MicroRNA Biology and Computational Analysis, Methods in Molecular Biology , Volume: 1107 (pp. 207-221), Humana Press, USA (Part of the Springer publishing group). DOI: 10.1007/978-1-62703-748-8_12. **GS-Cited: 14**

5. ***Malik Yousef**, Naim Najami and Walid Khaleifa (2011). MicroRNA Identification Based on Bioinformatics Approaches, In Ning-Sun Yang (Eds.), Systems and Computational Biology - Molecular and Cellular Experimental Systems (pp. 205-216), ISBN 978-953-307-280-7, InTech Press, DOI: 10.5772/78

Papers in Refereed Journals

SJR= SCImago Journal Rank , IF= Impact Factor, GS-Cited= Google Scholar Citation

Google-based Impact Factor= Based on Google Scholar's citation count

RGIF= Research Gate Impact Factor

Published

6. Dawit Nigatu, Patrick Sobetzko, **Malik Yousef**, Werner Henkel(2017), Sequence-based information-theoretic features for gene essentiality prediction. BMC Bioinformatics (Revised), **IF:2.435 .**
7. **Malik Yousef**, Dawit Nigatu and Loai Abdalla (2017), Automatic Categorization of PubMed microRNA Target Abstracts Based on Text Classification Techniques. Journal of Applied Bioinformatics and Computational Biology (Accepted). **IF:1.0**
8. **Malik Yousef** , Dawit Nigatu, Dalit Levy, Jens Allmer, and Werner Henkel (2017), Categorization of Species based on their MicroRNAs Employing Sequence Motifs, Information-Theoretic Sequence Feature Extraction, and k-mers. EURASIP Journal on Advances in Signal Processing (Accepted). **IF: 1.961.**
9. Loai Abdalla, Waleed Khalifa, Louise C.Show3 and **Malik Yousef** (2017), Selecting Significant Clusters of Genes based on Ensemble Clustering using Recursive Cluster Elimination (RCE), Journal of Proteomics & Bioinformatics 10: 186-192. doi: 10.4172/jpb.1000439**. IF:1.57 (3.14 5 Year Journal Impact Factor).**
10. **Malik Yousef**, Waleed Khalifa, İlhan Erkin Acar and Jens Allmer(2017), MicroRNA Categorization using Sequence Motifs and k-mers. BMC Bioinformatics 18:170. **IF: 2.435.**
11. Jens Allmer and ***Malik Yousef** (2016). Editorial: Computational miRNomics. Journal of Integrative Bioinformatics, 13(5):302, 2016. http://journal.imbio.de/index.php?paper_id=302. **SJR =0.42, RGIF:0.81**
12. ***Malik Yousef**, Waleed Khalifa and Loai AbdAllah(2016). Ensemble Clustering Classification compete SVM and One-Class classifiers applied on plant microRNAs Data. Journal of Integrative Bioinformatics, 13(5):304, 2016. Online Journal: http://journal.imbio.de/index.php?paper_id=304. **SJR =0.42, RGIF:0.81**
13. *Waleed Khalifa, **Malik Yousef**, Duygu Sacar and MD, Jens Allmer (2016). The impact of feature selection on one and two-class classification performance for plant microRNAs. PeerJ 4:e2135 https://doi.org/10.7717/peerj.2135. **IF:2.18** .

(These authors contributed equally to this work)

14. ***Malik Yousef**, Duygu Sacar, Waleed Khalifa and Jens Allmer (2016). Feature Selection has a Large Impact on One-Class Classification Accuracy for MicroRNAs in Plants*. Advances in Bioinformatics,* vol. 2016, Article ID 5670851, 6 pages, 2016. doi:10.1155/2016/5670851. **SJR:0.5, RGIF:2.39**
15. ***Malik Yousef** , Jens Allmer and Waldi Khaleifa (2016). Accurate Plant MicroRNA Prediction can be Achieved using Sequence Motif Features. *Journal of Intelligent Learning Systems and Applications*, 8, 9-22. doi: 10.4236/jilsa.2016.81002, **Google-based Impact Factor: 1.73**
16. ***Malik Yousef** , Jens Allmer and Waldi Khaleifa (2015). Sequence Motif-based One-Class Classifiers can Achieve Comparable Acuracy to Two-Class Learners for Plant MicroRNA Detection. *Journal of Biomedical Science and Engineering, 8, 684-694. doi: 10.4236/jbise.2015.810065,* **Google-based Impact Factor: 0.83**.
17. ***Malik Yousef** , Naim Najami , Loai Abedallah and Waldi Khaleifa (2014), Computational Approaches for Biomarker Discovery, *Journal of Intelligent Learning Systems and Applications*, 6, 153-161, **Google-based Impact Factor: 1.21**
18. ***Malik Yousef**, Trinh HV, and Jens Allmer (2014). Intersection of MicroRNA and Gene Regulatory Networks and their Implication in Cancer, *Current Pharmaceutical Biotechnology*, pages:445 - 454, doi: 10.2174/1389201015666140519120855, **IF:2.511** ,**GS-Cited: 4**
19. *Jens Allmer and **Malik Yousef**, (2012). Computational methods for ab initio detection of microRNAs, *Frontiers in Genetics*, vol. 3, pages:5 . doi: 0.3389/fgene.2012.00209, **SJR:1.46, GS-Cited:14**
20. *Bethsebah Gekonge; Malavika S Giri; Andrew V Kossenkov; Karam Mounzer; Michael Nebozyhn; Louise C Showe; **Malik Yousef**; Luis J Montaner (2012) Constitutive gene expression in monocytes from chronic HIV-1 infection overlaps with acute Toll-like receptor induced monocyte activation profiles. *PloS one 2012;7(7):e41153.* SJR:1.5 **IF:3.73**, **GS-Cited:12**
21. *Sujoy Dutta, Celia Chang, Bala Krishna Kolli, §Shigeru Sassa, **Malik Yousef**, Michael Showe, Louise Showe, and Kwang-Poo Chang, (2012). Delta-aminolevulinate-induced host-parasite porphyric disparity for selective photolysis of transgenic Leishmania in the phagolysosomes of mononuclear phagocytes: A

potential novel platform for vaccine delivery. *Eukaryotic Cell* 11(4): 430–441. SJR:19.85,**IF: 2.82, GS-Cited: 2**

22. ***Malik Yousef**, Naim Najami and Walid Khaliefa , (2010). A Comparison Study Between One-Class and Two-Class Machine Learning for MicroRNA Target Detection . *Journal of Biomedical Science and Engineering 2010, 3, 247-252*, **Google-based Impact Factor: 0.83, GS-Cited: 14**
23. *Andrea Raymond, Bethsebah Gekonge, Malavika S. Giri, Aidan Hancock Emmanouil Papasavvas, Jihed Chehimi, Andrew Kossevkov, Calen Nicols, **Malik Yousef**, Karam Mounzer, Jane Shull, Jay Kostman, Louise Showe, Luis J. (2010). Montaner, Increased metallothionein gene expression, zinc, and zinc dependent resistance to apoptosis in circulating monocytes during HIV viremia. *The Journal of Leukocyte Biology*. vol. 88 no. 3 P. 589-596 doi:10.1189/jlb.0110051. **SJR:0.85**, **IF:1.606**, **GS-Cited:29**
24. *Fang Lu, William Stedman, **Malik Yousef**, Rolf Renne, Paul M Lieberman,(2010). Epigenetic Regulation of KSHV Latency by Viral-Encoded MicroRNAs that Target Rta and the Cellular Rbl2-DNMT Pathway. *Journal of virology* 84(6): 2697–2706, **SJR:2.56**, **IF:5.076**
25. *Fang Lu; William Stedman; **Malik Yousef;** Rolf Renne; Paul M Lieberman,(2010). Epigenetic regulation of Kaposi's sarcoma-associated herpesvirus latency by virus-encoded microRNAs that target Rta and the cellular Rbl2-DNMT pathway. *Journal of virology 2010;84(6):2697-706* **SJR:2.56**, **IF:5.076, GS-Cited: 154**
26. ***Malik Yousef**, Mohamed Ketany, Larry Manevitz , Louise C Showe, Michael K. Showe , (2009). Classification and biomarker identification using gene network modules and support vector machines. *BMC Bioinformatics, 10:337* doi:10.1186/1471-2105-10-337, **SJR:1.52, IF: 2.58, GS-Cited: 26**
27. ***Malik Yousef,** Louise C Showe and Michael K Showe,(2009). A study of microRNAs in silico and in vivo: Bioinformatics approaches to microRNA Discovery and Target Identification, *Federation of European Biochemical Societies FEBS Journal ;276(8):2150-2156*. **IF: 4.25, GS-Cited: 45**
28. *Malavika S. Giri, Michael Nebozyhn, Andrea Raymond , Bethsebah Gekonge,

Aidan Hancock, Shenoa Creer, Calen Nicols, **Malik Yousef**, Andrea S. Foulkes, Karam Mounzer, Jane Shull, Guido Silvestri, Jay Kostman, Ronald G. Collman, Louise Showe and Luis J. Montaner ,(2009). Circulating Monocytes in HIV-1-Infected Viremic Subjects Exhibit an Antiapoptosis Gene Signature and Virus- and Host-Mediated Apoptosis Resistance . *The Journal of Immunology, 182, 4459 - 4470* **. IF: 5.520**, **GS-Cited: 63**

29. *Michael Showe, Anil Vachani, Andrew Kossenkov, **Malik Yousef**, Calen Nichols, Elena Nikonova, Celia Chang, John Kucharczuk, Bao Tran, Elliot Wakeam, Ting-An Yie, David Speicher, William Rom, Steven Albelda, Louise Showe,(2009). Gene Expression Profiles in Peripheral Blood Mononuclear Cells Can Distinguish Patients with Non-Small-Cell Lung Cancer from Patients with Non-Malignant Lung Disease. *Cancer Research*, 69(24):9202-10**. IF: 8.650**, **GS-Cited: 106**

30. **Malik Yousef,** Segun Jung, Louise C Showe and Michael K Showe, (2008). Learning from Positive Examples when the Negative Class is Undetermined- microRNA gene identification. *Algorithms for Molecular Biology, 3:2.*doi:10.1186/1748-7188-3-2, **SJR :0.85, IF :1.46**,**GS:-Cited: 57**

31. **Malik Yousef**, Segun Jung, Andrew V. Kossenkov, Louise C. Showe and Michael K. Showe, (2007). Naïve Bayes classifier for microRNA target gene identification. *Bioinformatics, 23: 2987 – 299,* **IF :5.766, GS-Cited: 123**

32. **Malik Yousef,** Louise C. Showe and Michael K. Showe(2007), Recursive Cluster Elimination (RCE) for Classification and Feature Selection from Gene Expression Data. *BMC Bioinformatics* ***8:****144.* doi: 10.1186/1471-2105-8-144 SJR:1.52*,* **IF: 2.58***,* **GS-Cited: 60**

33. Larry Manevitz and **Malik Yousef** (2007), One-Class Document Classification via Neural Networks. *Neurocomputing 70(7-9):1466-1481,*SJR:0.99, **IF: 2.083**, **GS-Cited: 91**

34. Jiajing Wang , Huai Li, Yitan Zhu, **Malik Yousef** , Michael Nebozhyn, Michael Showe, Louise Showe, Jason Xuan, Robert Clarke, Yue Wang[1], (2007)*,* VISDA: an open-source caBIG™ analytical tool for data clustering and beyond. *Bioinformatics,23: 2024 – 2027.* **IF: 5.766, GS-Cited: 17**

35. **Malik Yousef,** Hagit Shatkay, Michael Nebozhyn, Louise C. Showe and Michael K. Showe, (2006), Combining Multi-Species Genomic Data for MicroRNA Identification Using Naïve Bayes Classifier. *Bioinformatics, Vol. 22, No. 11, p. 1325-1334*, SJR:0.524.2, **IF: 5.766, GS-Cited : 169**

36. Michael Nebozhyn, Laszlo Kari, Andrey Loboda, Calen Nichols, **Malik Yousef**, Alain H. Rook, Eric C. Vonderheid, Stuart Lessin, Lalitha Gudipati, Meiling Shang, Michael K. Showe and Louise C. Showe(2006), Quantitative PCR on 5 Genes Reliably Identifies CTCL Patients with 5-99% Circulating Tumor Cells with 90% Accuracy. *Blood, Vol. 107, No. 8, p. 3189-3196.* **IF: 9.898, GS-Cited: 78**

37. **Malik Yousef**, Andrei Kouranov, Zissimos Mourelatos, Artemis G. Hatzigeorgiou (2004), Prediction of Human microRNA Targets Using Parallel Computing. *WSEAS Transactions on Information Science and Applications, Vol. 1, p. 581-586.* **SJR :0.18**, **GS-Cited: 1**

38. Larry Manevitz and **Malik Yousef** (2004), A Web Navigation System Based on a Neural Network User-Model Trained with Only Positive Web Documents. *Web Intelligence and Agent Systems (WIAS) Vol. 2, No.2 , p.137-144.* **SJR:0.39,GS-Cited: 4**

39. Larry Manevitz and **Malik Yousef** (2001), One-Class SVM for Document Classification. *Journal of Machine Learning Research (JMLR), Vol. 2, p. 139-154.* **SJR :2.69, IF:3.42**, **GS-Cited: 902**

40. Larry Manevitz, **Malik Yousef** and Dan Givoli(1997), Finite Element Mesh Generation Using Self Organizing Neural Networks. *Special Issue on Machine Learning. MicroComputers in Civil Engineering (12) 4, 233-250.* **IF: 5.625 GS-Cited: 30** *(Computer-Aided Civil and Infrastructure Engineering Formerly: Microcomputers in Civil Engineering)*

Peer-Reviewed Proceedings

Please note: Peer-reviewed proceedings in my field are considered equivalent to regular peer-reviewed papers

41. ***Malik Yousef**, Dalit Levi and Jens Allmer(2017), Species categorization based on 3'UTR microRNA target sites using sequence features. International Conference on

Bioinformatics Models, Methods and Algorithms (Submitted).

42. ***Malik Yousef** , Waldi Khaleifa, İlhan Erkin Acar and Jens Allmer (2017), Distinguishing Between MicroRNA Targets From Diverse Species Using Sequence Motifs And K-Mers, Proceedings of BIOSTEC 2017, 10th International Joint Conference on Biomedical Engineering Systems and Technologies, Porto., vol. 3, 2017
43. ***Malik Yousef** , Jens Allmer and Waldi Khaleifa (2016), *Feature Selection for MicroRNA Target Prediction: A Comparison of One-Class Feature Selection Methodologies*, In Proceedings of the 9th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC 2016) - Volume 3: BIOINFORMATICS, pages 216-225, ISBN: 978-989-758-170-0. February , Rome, Italy.
44. *Najami Naim, Friedman Alon, Khalifa Waleed and **Malik Yousef**, (2011). *Experimental Analysis Of Potential MicroRNAs Encoded During and After Blood Brain Barrier Disruption*. 6th International Symposium on Health Informatics and Bioinformatics, (HIBIT2011), pp.108-115,2-5 May 2011,Izmir, Turkey, doi: 10.1109/HIBIT.2011.6450818
45. ***Malik Yousef** and Waleed Khalifa,(2010). *A Zero-Norm Feature Selection Method for Improving the Performance of the One-Class Machine Learning for MicroRNA Target Detection*. 5th International Symposium on Health Informatics and Bioinformatics, (HIBIT2010), Pp.45–50, 20-22 April 2010, Antalya, Turkey, doi: 10.1109/HIBIT.2010.5478907. **GS-Cited: 1**
46. ***Malik Yousef**, Naim Najami and Walid Khaliefa (2009). *One-Class Machine* Learning for MicroRNA Target Detection. 4th International Symposium on Health Informatics and Bioinformatics, (HIBIT2009), pages:7 April 16-18, 2009 METU Informatics Institute, Ankara, Turkey
47. **Malik Yousef**, Segun Jung, Andrew V. Kossenkov, Louise C. Showe and Michael K (2008). *A web-server applying Naïve Bayes and SVM for microRNA gene prediction*. European Conference on Artificial Intelligence, Workshop Bioinformatics, Genomics & Proteomics, an Artificial Intelligence Approach (ECAI08-BIGPAIA), Pages:4, 22 July, Patras, Greece

48. Larry Manevitz. and **Malik Yousef** (2000)**.** *The Surfer's Apprentice, Neural Network Models and Intelligent Data Mining*. BRAIN-MACHINE 2000 Workshop, pages: 12, 20-22 December, Ankara, Turkey

49. Larry Manevitz, . and **Malik Yousef** (2000). *Document Classification on Neural Networks Using Only Positive Examples*. Proceedings of 23rd ACM SIGIR Conference on Research in Information Retrieval (Sigir 2000), p. 304-307,Athens.

50. Larry Manevitz., **Malik Yousef** and Dan Givoli, (1997). Automatic Mesh Generation using Self Organizing Neural Networks, *Proc. of Bar-Hillel Memorial Symposium,* (Editor M. Kopple and E. Shamir), p.144-158

51. Larry Manevitz., Dan Givoli. and **Malik Yousef**, (1996). Placing Geometry and Topology in Meshes, Proc. of IAICV-12 (Israeli Symposium on Artificial Intelligence and Computer Vision), p.102-112

52. Larry Manevitz, Dan Givoli, **Malik Yousef** and Margi, M.(1996). *AI and NN Tools for the Finite Element Method*. Proc. of the First World Online Symposium of Soft Computing, Nagoya, Japan, (Editor T. Furuhoshi) p. 192-197**.** GS-Cited: 1

Publications in Education

Book Chapter

53. Khalid Arar, **Malik Yousef** ,Rania Ismael and Amer Badarni (2016), Leading change: Collaboration between Sakhnin Arab Teacher Education College and Al-Bashaer High School. In book: Building and Maintaining Collaborative Communities: Schools, University, and Community Organizations. Editors: J, Slater, R, Ravid, M, Reardon .

Conferences

54. **Malik Yousef** and Naela hello(2017*), What is an effective rubric, characteristics and principles of its construction. Intercollegiate Conference for Presenting the Final Master's Degree Projects, MOFET, Israel.

55. Khalid Arar, Mahmood Khalil and **Malik Yousef (2014),** Leading change: Collaboration between Sakhnin Arab Teacher Education College and Al-Bashaer High School. ECER 2014, The Past, the Present and the Future of Educational Research. Dublin.

Academic Activities

2017*-present *Member of the Management Committee of COST Action Harmonising standardisation strategies to increase efficiency and

competitiveness of European life-science research (CHARME)

2014-2016 *Member of Arab Excellence Program, The Davidson Institute , Weizmann Institute of Science.

2015-2016 *The head of proposed plan for M-Teach (Master of Education in Teaching)

2012-2016 *The head of Committee for BA in Computer Sciences, MALAG (Institute of Higher Education).

2010-2016 *Dean of Graduate Studies, The College of Sakhnin, Academic College for Teacher Education. The dean for development of six MED programs. Four are running.

2010-2016- *Member of the Academic Council, The College of Sakhnin for Teacher Education.

2008-2012 *Member of the Management Committee of COST Action IC0602-Algorithmic Decision Theory. [European Cooperation in Science and Technology) is one of the longest-running European frameworks supporting cooperation among scientists and researchers across Europe]

2008-2011 *Researcher, Haifa University, Computer Sciences Department, Israel

2007-2011 Associated Research Member of the The Neurocomputation Laboratory of Prof. Larry Manevitz, Haiaf University

2005-2007 Leader of the Statistical Data Analyzer (VISDA) in collaboration with the National Cancer Institute's Cancer Bioinformatics Grid. Showe Lab, Wistar Institute, USA [The National Cancer Institute's Center forBioinformatics and Information Technology-USA launched the caBIG® (cancer Biomedical Informatics Grid®) initiative in 2004 to mobilize digital capabilities for researchers in order to accelerate scientific discoveries.

Membership

2017-present *CAMDA, ISCB Communities of Special Interest (COSIs), data analysis challenge format which focuses on big heterogeneous data sets

2017-present *Israeli Society for Bioinformatics and Computational Biology

2017-present *International Society for Computational Biology (ISMB)

2017 *INSTICC-the Institute for Systems and Technologies of Information,

Control and Communication

2013-2016 *Forum Coordinator Masters Program at MOFET

2005-2007 International Society for Computational Biology (ISMB)

Editorial Boards

2017-present *Editorial Board, EC Proteomics and Bioinformatics

2017-present *Editorial Board, International Journal of Genomics and Data Mining

2016-present *Editorial Board, Journal of Integrative Bioinformatics (JIB).

2011 *Associate Editor, Alnibras Journal of Education, Science and Society, published by The College of Sakhnin for Teacher Education.

2009-present *Associate Editor, Research Journal of Applied Science, Engineering & Technology.

Reviewer for Journals

1. British Journal of Applied Science & Technology
2. Journal of Machine Learning Research (JMLR)
3. IEEE Transactions on Knowledge and Data Engineering (TKDE)
4. Algorithms for Molecular Biology
5. Bioinformatics (Oxford)
6. Nucleic Acids Research (NAR)(Oxford)
7. BMC-Bioinformatics
8. Genomics
9. Frontiers in Bioscience
10. Computers in Biology and Medicine.
11. Computational Biology and Chemistry
12. EC Proteomics and Bioinformatics

Membership in Academic Committees

2017-2018 *Program Committee, 9th International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS 2018).19-21 January, Portugal

2017 *Session Chair, 8th International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS 2017). 21-23 February 2017, PORTO, Portugal.

2017 *Program Committee, Integrative Bioinformatics conference (IB2017),

June 22+23, Odense, Denmark.

2016-2017 *Co-Chair, CompMiRNomics 2017, Computational miRNomics, Special Session of BioDevices 2017, 10th International Conference On Biomedical Electronics and Devices

2016-2017 *Program Committee, 8th International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS 2017). 21-23 February 2017, PORTO, Portugal.

2016 *Program Committee, IB 2016, the International Symposium on Integrative Bioinformatics 2016, Bielefeld University, Germany and IMBio, Germany.

2016 *Program Committee, Intercollegiate Conference for Presenting the Final Master's Degree Projects, MOFET, Israel

2015-2016 *Program Committee, 7th International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS 2016). 21-23 February 2016, Rome, Italy.

2014 *Session Chair**,** Annual Conference of Leadership and Counseling in an era of reform, The College of Sakhnin for Teacher Education.

2014 *Scientific Committee Member**,** International Workshop on Translational Bioinformatics and Medical Informatics, May 21-23 2014, Izmir, Turkey.

2010-2015 *Program Committee, Annual Conference of Leadership and Counseling in an era of reform, The College of Sakhnin for Teacher Education.

2012 *Program Committee. The7th International Symposium on Health Informatics and Bioinformatics, (HIBIT), April 19-22 2012, Nevershir, Turkey.

2011 *Program Committee. The 6th International Symposium on Health Informatics and Bioinformatics, (HIBIT), May 2-5 2011, Izmir, Turkey.

2009 *Session Chair. 1st BIOmics Workshop & Conference, Aug 30-Sep 4, Weizmann Institute of Science, Rehovot, Israel

2008 Program Committee. ECAI'08 Workshop on Bioinformatics, Genomics

& Proteomics, an Artificial Intelligence Approach. 22 July, Patras, Greece.

2005 Program Committee. The IADIS e-Society 2005 Conference

2004 Program Committee, Semantic Web Workshop, 27th Annual International ACM SIGIR Conference, July 25- 29, 2004, Sheffield, UK.

2003 Program Committee, Semantic Web Workshop, Workshop at SIGIR 2003 funded by Onto web (http://www.ontoweb.org/) (http://www.sigir2003.org/), 26th Annual International ACM SIGIR Conference July 28 - August 1, 2003, Toronto, Canada

Teaching Experience

Programming skills: C#, Perl, Java, Matlab, C, C++, Python, R

Knime Analytics Platform.

2007– Present Courses

Introduction to Computer Sciences, Algorithms, Automata and Formal Languages, Data Structure, Machine Learning, Bioinformatics, Web programming (ASP.NET) and Big Data tools.

2013-2016 *Graduate Courses:

1. Learning Environment: Design, Development, Implementation, and Evaluation
2. Computerize School Management

2007-2011 Lecturer in Computer Sciences, Al-Qasemi– Academic College of Education, Israel.

1994-2000 Lecturer in Computer Sciences in different colleges (Beit-Berl College, AL-QASEMI Academy (R.A.) – Academic College of Education, Mar-Elias College – Ebleen)

1993-1999 Graduate Teaching Assistant, Computer Sciences, Haifa University, Haifa, Israel

1993-1999 Math Teacher, High School, Dabburiya Village, Israel

Community Services

2001-2003 **Mayor of Dabburia Village**, Israel.

Grants

(The MOFET Institute is a national intercollegial center for the research and development of programs in teacher education and teaching in the colleges, Israel)

2011 *__PI, Malik Yousef__ and Waleed Khalifa, Development of new Computational Approaches for the Analysis of Gene Expression Datasets and Discovering Significant Networks Genes. Funded by Ministry of Science, Israel, Amount **$80,000**.

2011 *__CI__, Collaboration Scenarios and Interacting Business Processes based on Service Compositions, DFG (German Research Foundation) Yousef,M., Weske,M., Hasso Plattner Institute of IT Systems Engineering at the University of Potsdam Potsdam, Germany and Prof. Avigdor Gal, Faculty of Industrial Engineering & Management Technion, Israel, Amount **$603,595**. Of this grant, **$35,000** grant was for my share of the study transferred to the university.

2011 ***PI**, **Malik Yousef**, One-class and Transductive machine learning for finding novel microRNA genes and predicting bio-activity of novel compounds, MOFET Institute. Amount **$3,000**.

2009-2011 ***PI**, **Malik Yousef**, and Adel Shalata, MO-1, Novel Obesity Gene: Genotype and Phenotype Characterization of Obese and Lean Arab Groups from the Galilee**.** Funded by ministry of science, Israel. Amount **$100,000**.

2008-2011 ***PI**, **Malik Yousef** and Waleed Khalifa Naïve Bayes/SVM for MicroRNA Gene Target Predictions. Funded by the ESHKOL Scholarship program of the ministry of science, Israel. Amount **$46,000**.

2004-2010 ***Postdoctorate**, Diagnosis of Lung Cancer from Peripheral Blood Using Genomics. COMMONWEALTH OF PENNSYLVANIA Tobacco Settlement**.** D. Speicher, PI. Amount **$3,018,267**. **($14,400** my part)

2004-2009 *__Postdoctorate__, Microarray Analysis of Responsiveness of CTCL IL-12. NIH,USA. R01 CA 106553 (Prof. L. Showe, PI)). Amount **$1,053,550**. **($14,400** my part)

2009-2010 *__PI__, __Malik Yousef__, Development of new Computational Approaches For the Analysis of Gene Expression Datasets and Discovering Significant Networks Genes. MOFET Institute. Amount **$3,000**.

2017 *__PI__, Machine Learning for Identification of MicroRNA Genes and Target. Zefat Academic College. Amount **8000$.**

HONORS & AWARDS & Scholarships

2010 *Excellent lecturer – Al-Qasemi College, Israel

2005 The Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA(Scholarship), Amount **1,500$**

2003-2007 PostDoctorate, The Wistar Institute, Prof Louise Showe lab, Amount **288,000$.** (Salary Four years)

1998 Isaac Newton Institute for Mathematical Sciences, Cambridge, UK(Scholarship), Amount **800$**

1997-2002 Ph.D , University of Haifa, **stipend 58,000$**

1996 Graduated CUM LAUDE M.A, University of Haifa, Israel

1995 Excellent award, Faculty of Science and Science Education, University Of Haifa, Isarel, Amount **500$**

1993-1996 MA, University of Haifa, Israel, **stipend 12,000$**

Participating in Conferences

(Year, Location, Conference, Title, Type)

1. 2017*, Isral, IoT-Internet of Things, Embedded Solution & microprocessors.
2. *2017, Prague ISMB/ECCB 2017, Recursive Cluster Elimination (RCE) Based on Ensemble Clustering for Gene Expression Data, Abstract(Poster)
3. *2017, Northern Cyprus, The International Symposium on Health Informatics and Bioinformatics, (HIBIT), Ensemble Clustering Classification Applied on Plant microRNAs Data, Abstract(Poster)
4. *2017 Porto, Portugal 8th International Conference on Bioinformatics Models, Methods and Algorithms Distinguishing between MicroRNA Targets from Diverse Species using Sequence Motifs and K-mers, Proceeding
5. *2016, By Jens Rome Italy, 7th International Conference on Bioinformatics Models, Methods and Algorithms Feature Selection for MicroRNA Target Prediction: A Comparison of One-Class Feature Selection Methodologies, Proceeding

6. *2012 Nevsehir Turkey, 2nd Workshop on Translational Bioinformatics, 7th International Symposium on Health Information and Bioinformatics (HIBIT), Multi One Class Classifier, Abstract
7. *2011 Izmir, Turkey 6th International Symposium on Health Informatics and Bioinformatics, (HIBIT2011) A Comparison Study Of Clustering Genes Methods For Recursive Cluster Elimination, Abstract
8. *2011, Izmir, Turkey, 6th International Symposium on Health Informatics and Bioinformatics, (HIBIT2011) Experimental Analysis Of Potential MicroRNAs Encoded During and After Blood Brain Barrier Disruption, Proceeding
9. *2010 Antalya, Turkey 5th International Symposium on Health Informatics and Bioinformatics, (HIBIT2010) A Zero-Norm Feature Selection Method for Improving the Performance of the One-Class Machine Learning for MicroRNA Target Detection, Proceeding
10. *2010 Israel IBS 2010, The Israeli Bioinformatics annual Symposium Using Threshold Backward Feature Selection for Improving the Performance of One Class MicroRNA Target Predictions, Abstract
11. *2010 Antalya, Turkey 5th International Symposium on Health Informatics and Bioinformatics, (HIBIT2010) Regulation Profile of miRNAs hsa-miR-342 and hsa-miR-326 in Experimental Blood Brain Barrier Disruption, Abstract
12. *2010 Belgium, ECCB10 European Conference on Computational Biology Feature elimination for one-class microRNA target prediction and gene identification, Abstract
13. *2009 Ankara, Turkey 4th International Symposium on Health Informatics and Bioinformatics, (HIBIT2009) One-Class Machine Learning for MicroRNA Target Detection Proceeding
14. *2009 December, Liege, Belgium, BBC09 the fifth Benelux Bioinformatics Conference Classification and biomarker identification using gene network modules and support vector machines, Abstract
15. *2009 Bar-Ilan University, Ramat Gan, Israel, The 10th Bar-Ilan Symposium on the Foundations of Artificial Intelligence (BISFAI) Recursive gene Networks Elimination (RNE) For Feature Selection and Classification from Gene Expression data, Abstract

16. *2009 Bar-Ilan University, Ramat Gan, Israel. The 10th Bar-Ilan Symposium on the Foundations of Artificial Intelligence (BISFAI) One-Class or Two-Class Machine Learning for MicroRNA Target Prediction, Abstract
17. *2009 Israel IBS 2009, The Israeli Bioinformatics annual Symposium. MicroRNA Target Predictions Based Exclusively On Positive Examples, Abstract
18. 2008 Antalya, Turkey, Non-Coding RNAs: Computational Challenges and Application Predicting MicroRNA Genes and Their Target Site using Structural and Sequence Features: Machine Learning Approach, Abstract
19. 2008 Patras, Greece ECAI08-BIGPAIA on Bioinformatics, Genomics & Proteomics, an Artificial Intelligence Approach A web-server applying Naïve Bayes and SVM for microRNA gene prediction, Proceeding
20. 2008, Antalya, Turkey. Non-Coding RNAs: Computational Challenges and Application Developing Tolerant Crop Plants to Abiotic Stresses Possible Role of miRNAs, Abstract
21. 2007, Greater Philadelphia Bioinformatics Alliance USA, A Web-Server Predicting MicroRNAs based on Machine Learning Approaches, Abstract
22. 2005, Greater Philadelphia Bioinformatics Alliance USA, Microarray Analysis In Macrophages Infected With Suicidal Transgenic Leishmania Spp, Abstract
23. 2004, ISMB/ECCB A Combined Computational-Experimental Approach Predicts Human microRNA Targets,
24. 2000, Athens ACM SIGIR Conference on Research in Information Retrieval Document Classification on Neural Networks Using Only Positive Examples Proceeding
25. 2000, Ankara, Turkey Brain-Machine 2000 Workshop Surfer's Apprentice, Neural Network Models and Intelligent Data Mining Proceeding
26. 1997, Bar-Hillel Memorial Symposium Automatic Mesh Generation using Self Organizing Neural Networks, Proceeding
27. 1996, Israel Israeli Symposium on Artificial Intelligence and Computer Vision Placing Geometry and Topology in Meshes Proceeding
28. 1995, Ramat-Gan and Jerusalem, Israel. BISFAI'95, The Fourth Bar-Ilan Symposium on Foundations of Artificial Intelligence Grid Generation using a Self-Organizing Neural Network, Abstract.

Active Participation in Scientific Conferences

International

Invited Lecturer

International

1. ***Malik Yousef** (2017), Making Sense of Big data composed of gene expression and other transcripts, College of Veterinary Medicine ,University of Minnesota, USA
2. ***Malik Yousef** (2015)**,** Survey of my last research on MicroRNA Genes and Target and Gene expression, Master Students at Biotechnology Research Center, Polytechnic University, Hebron.
3. ***Malik Yousef** (2014), International Workshop on Translational Bioinformatics and Medical Informatics (http://wtbm.iyte.edu.tr) 21.05.2014 to 23.05.2014 in Izmir, Turkey.
4. **Malik Yousef** (July 2008).ECAI'08 Workshop on Bioinformatics, Genomics & Proteomics, an Artificial Intelligence Approach. Patras, Greece.
5. **Malik Yousef** (October 2005). *Machine Learning for Identification of MicroRNA Genes*. Max Planck Institute for Molecular Genetics, Dept. of Computational Molecular Biology, Berlin, Germany.
6. **Malik Yousef** (September 2005). *Predicting microRNA Genes Using Structural andSequence Features and Naive Bayes as a Classifier*. NSF-RCN Retreat, Development, Evaluation, & Dissemination of Methods for the Analysis of Gene Expression by Microarrays, Mohonk, New York, USA.
7. **Malik Yousef** (August 2004). *One-Class SVMs for Text Classification* . Centre for Scientific and Technological Research (ITC-irst), Oliviero Stock, Trento, Italy.

National

8. ***Malik Yousef (January 2017),** Ensemble Clustering Classification for SVM-RCE. Management Information Systems, The Max Stern Yezreel Valley College.
9. ***Malik Yousef (January 2017),** Making Sense of Big data composed of gene expression and other transcripts. Zefat Academic College, project finals.
10. ***Malik Yousef** and Walid Khalifa (November 2015), Plant MicroRNA Prediction employing Sequence Motifs, The Institute of Applied Research the Galilee Society, Israel.

11. ***Malik Yousef** (December 2012).*A Zero-Norm Feature Selection Method for Improving the Performance of the One-Class Machine Learning for MicroRNA Target Detection*. The Dual Taiwan-Israel Research Symposium on CRI , University of Haifa.
12. ***Malik Yousef** (April 2011).*SVM-RCE for grouping genes*. AL-Qasemi College, Israel.
13. ***Malik Yousef** (March 2010). *Programming by Scratch*. AL-Qasemi College, Israel.
14. ***Malik Yousef** (March 2009) *My way to Bioinformatics*. AL-Qasemi College, Israel.
15. ***Malik Yousef** (March 2009). *Development of New Computational Approaches for the Analysis of Gene Expression Datasets and Discovering Significant Networks Genes*. Haifa Mini-workshop on Machine Learning: Theory and Practice, CRI, University of Haifa and Technion.
16. ***Malik Yousef (6 April 2009),** *Recursive Cluster Elimination using Biological gene Network For classification and feature selection from gene expression data***.** The 12th Israeli Bioinformatics Symposium, the annual meeting of the Israeli Society for Bioinformatics and Computational Biology (ISBCB), Weizmann Institute of Science, Israel.
17. **Malik Yousef (**Nov 16 2008). *Methods for miRNA gene and Target*. Ben-Gurion University of the Negev, Departments of Physiology and Neurosurgery Faculty of Health Sciences Computational.,isure
18. **Malik Yousef (**Feb 2008). *Predicting MicroRNA Genes and Targets using Structural and Sequence Features: Machine Learning Approach*. Al-Quds University, Computer Sciences., isure
19. **Malik Yousef** (January2008). *Predicting MicroRNA Genes and Targets using Structural and Sequence Features: Machine Learning Approach*. Tel-Aviv University, Computer Sciences.
20. **Malik Yousef** (August 2007). *Predicting MicroRNA Gene and Target Using Structural and Sequence*. IBM Israel Research.

21. **Malik Yousef** (August 2006). *Two-Class and One-Class Machine Learning Approach for MicroRNA Gene Predictions.* Department of Information Systems Engineering, Ben-Gurion University of the Negev.

22. **Malik Yousef** (October 2004). *A Machine Learning Approach Applied on microRNA Gene Prediction*. Faculty of Industrial Engineering and Management, Technion City, Haifa, Israel.

Evaluating Theses and Doctoral Dissertations

1. *Gal Sabina Star (2016), M.Sc. Machine Learning Techniques and the Existence of Variant Process in Humans Declarative Memory. Computer Sciences Department , Haifa University.(Under Evaluating)
2. *Murad Alkubabji (2015), M.Sc. Genetic-based feature selection for classification in large datasets. Polytechnic University, Hebron.
3. *Natan Silnitsky (2012), M,Sc. Using Virtual Reality and Machine Learning Tools to Classify Brain Damage from Motion Data. Computer Sciences Department , Haifa University.
4. *Randa Khayr-Moadi (2012), M.Sc. Local Propagation of Mood in Blogs, Computer Sciences Department ,Haifa University.

Supervising Postdoctoral

1. *Walid Khalifa (2011), Naïve Bayes/SVM for MicroRNA Gene Target Predictions". Postdoctoral that funded by the ESHKOL scholarship program of the ministry of science culture and sport, Israel.

Supervising M.Sc and M.A Thesis:

1. *Paolo Branchi (2015) M.Sc. miRNAfind Webserver for microRNA prediction, MPBA – FBK ,Italy (supervisors Cesare Furlanello and Malik Yousef)

2. *Mohamed Ketany,(2010) M.Sc. Recursive Cluster Elimination using gene Network For classification and feature selection from gene expression data. (with Prof. Larry Manevitz,Computer Sciences Department). University of Haifa, Israel.

3. Segun Jung (2007),M.A. One-Class Machine Learning Approach for MicroRNA Gene Predictions, Drexel University, USA (with Prof, Louise Show,UPENN,USA)

Supervising M.Ed Projects:

4. Aboria Aliyat Hossin(2016), The connection between the use of ICT and motivation, decision making and management practices of the principal of the school in the view of principals and teachers.
5. Manal Zubidat (2016), Parental Involvement Model via parents' characteristics and their perceptions of technological tools.
6. *Maisa Ghanayim(2015), The effect of using digital books on the changes of the teacher's work in the School.
7. *Naela hello(2015), What is an effective rubric, characteristics and principles of its construction.
8. *Areen shalabi (2015), evaluation academy project in high school Elbshaer – Sakhnin.
9. *Naila Qarawany(2014), Relationship between transformational leadership style of the Arab manager and teachers absence level in Arab primary schools in israel, M.Ed, The College of Sakhnin for Teacher Education, Israel
10. *Rania Esmaeel(2014), Leading change: Collaboration between Sakhnin Arab Teacher Education College and Al-Bashaer High School, M.Ed, The College of Sakhnin for Teacher Education, Israel.(With Dr. Khalid Arar)
11. *Sulyman Faten (2013), M.Ed. Academic in High School: A case study. The College of Sakhnin for Teacher Education, Israel. (With Dr. Khalid Arar).
12. *Awaeda Awny, (2012), M.Ed. The relationship between management style and teachers satisfaction in Arab public school in Israel. The College of Sakhnin for Teacher Education, Israel.
13. *Housh Alaa, (2012), M.Ed. The Connection between Teachers' Attitudes to the Integration of Teleprocessing in Education and their Perception of the Effectiveness of the Integration. The College of Sakhnin for Teacher Education, Israel.
14. *Sawaed Muhammad, (2012) M.Ed. Difficulties Facing New Teachers: The role of School Principal in Coaching New Teachers. The College of Sakhnin for Teacher Education, Israel.

15. *Yousef Ezaldeen, (2012), M.Ed. Special Education Act in jounior High & High School in The Arab Sector – from Theory to Parctice. The College of Sakhnin for Teacher Education, Israel.