

Henry Han (1pg CV)

Education

Ph.D. in Applied Mathematical & Computational Sciences, University of Iowa, 2004
Master of Computer Science, Dept of Computer Science, University of Iowa, 2001
Master of Science in Mathematics, Dept of Mathematics, University of Iowa, 2001

Research Interests

Data science, Fintech, Artificial Intelligence, Bioinformatics and Health informatics, Cybersecurity, Quantum computing

Academic Positions

08/2021- McCollum Endowed Chair in Data Science, School of Engineering & Computer Science, Baylor university
09/2012–07/2021 Professor of Computer and Information Science, Fordham University
07/2010–08/2012 Associate Professor, Bioinformatics & Mathematics, Eastern Michigan University
07/2005–06/2010 Assistant Professor, Bioinformatics & Mathematics, Eastern Michigan University

Selected Recent publications

1. **Han, H**, Teng, H, Xia, L, Wang, Y, Guo, Z, Li, D: Predict High-Frequency Trading Marker via Manifold Learning, Knowledge-based system, 213:106662, 2021 (Journal impact factor: 8.04)
2. Han, F, Chen W, Ling, Q, **Han, H**, Multi-objective particle swarm optimization with adaptive strategies for feature selection, Swarm and Evolutionary Computation, (Journal impact factor: 7.18) <https://doi.org/10.1016/j.swevo.2021.100847>
3. Jiang, J., Han, F., Ling, Q., Wang, J, Li, T, **Han, H**: Efficient Network Architecture Search via Multiobjective Binary Particle Swarm Optimization based on Decomposition, Neural networks, 123 305–316, 2020 (Journal impact factor: 8.05)
4. Zhang, Y, Huang, H, **Han, H**: Attention-based convolution skip bidirectional long short-term memory network for speech emotion recognition, IEEE access DOI: 10.1109/ACCESS.2020.3047395 (Journal impact factor: 3.75)
5. Zhang, Y, Zhang, F, Guo, L, **Han, H**: Salient object detection using feature clustering and compactness prior, Multimedia Tools and Applications, 2021, DOI:10.1007/s11042-021-10744 (Journal impact factor: 2.313)
6. Liu, W, Li, D, **Han, H**: Manifold learning analysis for Allele-skewed DNA modification SNPs for psychiatric disorders, IEEE Access, 8:1, 33023-33038, 2020, (Journal impact factor: 3.75)
7. Improving Decomposition-based Multiobjective Evolutionary Algorithm with Local Reference Point Aided Search, information Science (Journal impact factor: 6.79), 567:2021, 557-576
8. Xu, P, Wu, Q, Rao, Y, Kou, Z, Fang, G, Liu, W, **Han, H**: Predicting the Influence of MicroRNAs on Drug Therapeutic Effects by Random Walking. IEEE Access 8: 117347-117353 (2020) (Journal impact factor: 3.75)
9. Xu, P, Lu, D, Yu, J, Kou, Z, Gang, F, Liu, W, **Han, H**: A shortest pathway study for evaluating the impact of critical miRNAs on cell proliferation and apoptosis, BMC Bioinformatics 21(1): 396 (2020) (Journal impact factor: 3.42)
10. Xu, P, Wu, Q, Yu, J, Rao, Y, Kou, Z, Fang, G, Shi, X, Liu, W, **Han, H**: A systematic way to infer the regulation relations of miRNAs on target genes and critical miRNAs in cancers, Frontiers in Genetics, 11:278. doi: 10.3389/fgene.2020.00278 (Journal impact factor: 3.60)
11. Han, H: Hierarchical learning for option implied volatility pricing, the 54th Hawaii International Conference on System Sciences (HICSS) 2021, 1573-1582
12. Li, T, Han, H: A high-performance basketball game forecast using magic feature extraction, *Recent advances in data science*, Springer communications in computer and information science vol 1099, 35-50, 2020

Student supervision

Graduate students (total:50+): Chen, W, Wu,Y, Li,T, Li, Y, Qin, X, Lenk, S Hebert. N et al
Undergraduate students (total 20+): He, J Malloy, B, Rich,A et al.

Selected University services

Data Science Committee Chair, Department of Computer Science, Baylor university, 2021-
University Research Council, Fordham University, 2017-2020
Fordham Lincoln Center College (FLC) Council member, 2016-2019
Director of MS program in Cybersecurity, Fordham University, 2013-2015