



## Hong Yan

Chair Professor of Computer Engineering

**Phone:** +852-3442-4889, **Email:** h.yan (AT) cityu.edu.hk

**Office:** B6518, Yeung Kin Man Academic Building (AC1)

**Postal Address:** Department of Electronic Engineering, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon, Hong Kong

**Research Areas:** Bioinformatics, Image processing, Pattern recognition

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Hong Yan received his Ph.D. degree from [Yale University](#). He was professor of imaging science at the [University of Sydney](#) and currently is chair professor of computer engineering at [City University of Hong Kong](#) (CityU). He is a former Dean of the College of Science and Engineering at CityU.

Professor Yan was elected an IAPR fellow for contributions to document image analysis and an IEEE fellow for contributions to image recognition techniques and applications. He received the 2016 Norbert Wiener Award from IEEE SMC Society for contributions to image and biomolecular pattern recognition techniques.

Professor Yan has over 600 journal and conference publications, and his research interests include:

- **Bioinformatics:** Genomic data analysis; Structural biology
- **Image processing:** Biomedical imaging; Document imaging
- **Pattern recognition:** Clustering and biclustering; Human face recognition and animation

## Web Links

- [Bioinformatics software](#)
- [Human face animation movies for digital entertainment](#)

## Selected Publications

- C. Cui, Q. Li, L. Qi, and H. Yan, "A quadratic penalty method for hypergraph matching," *Journal of Global Optimization*, 70(1):237-259, 2018.
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- H. Kuang, K. F. Yang, L. Chen, Y. J. Li, L. L. H. Chan, and H. Yan, "Bayes saliency-based object proposal generator for nighttime traffic images," *IEEE Transactions on Intelligent Transportation Systems*, 9(3):14-825, 2018.
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- L. Ma, D. D. Wang, B. Zou, and H. Yan, "An eigen-binding site based method for the analysis of anti-EGFR drug resistance in lung cancer treatment," *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 14(5):1187-1194, 2017.
- B. Zou, V. H. F. Lee, L. Chen, L. C. Ma, D. D. Wang, and H. Yan, "Deciphering mechanisms of acquired T790M mutation after EGFR inhibitors for NSCLC by computational simulations," *Scientific Reports*, 7(1):6595:1-13, 2017.
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