

Jane You's Brief CV

1. Personal Information:

Name: Jane YOU (Jia)

Current position: Professor (since 07/2010)

Department of Computing, The Hong Kong Polytechnic University

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2. Academic qualifications: Tertiary

- 1982 – 1986: B.Eng, Electronic Engineering, Xi'an Jiaotong University, Xi'an, P.R.China
- 1987: Diploma in English, Beijing Foreign Studies University, Beijing, P.R.China
- 1988 – 1992: Ph.D, Computer Science, La Trobe University, Australia
- 1994: Academic Qualification Certificate issued by French National Education Committee
- 1998: Graduate Certificate in Higher Education, Griffith University, Australia

3. Previous academic positions

- Associate Professor, The Hong Kong Polytechnic University (04/2004 – 06/2010)
- Assistant Professor, The Hong Kong Polytechnic University (09/1999 – 03/2004)
- Senior Lecturer, Griffith University, Australia (01/1996 – 02/2002)
- Research Fellow, Universite Paris XI (12/1993 – 11/1994)
- Lecturer, The University of South Australia, Australia (04/1993 – 12/1995)
- Associate Lecturer, La Trobe University, Australia (08/1989 – 04/1993)

4. Research patents, awards and technology transfer

- **2016: Special Prize and Silver Medal**
The 44th International Exhibition of Inventions of Geneva (Geneva, Switzerland, 13-17 April, 2016)
(Team Leader: *Smart Fetal Monitoring Belt*)
- **2015: First runner-up for Innovation Award of Excellence (Hong Kong)**
The 2nd Hong Kong Innovation Day (25 Nov. 2015)
(Team Leader: *Mobile Retinal Imaging for Smart Diabetic Care*)
- **2015: US Patent No. US9,089,288B2, Date of Patent: July 28, 2015**
(Team leader, "*Apparatus and method for non-invasive diabetic retinopathy detection and monitoring*")
- **2012: 2012 PolyU Presiden's Award for Research and Scholarly Activities (Team)**
- **2012: US Patent No. US8,195,192B2, Date of Patent: June 5, 2012**
(Team member, "*Personal tracking device with low power consumption*")
- **2011: Pattern Recognition Society Award**
- **2011: Special Prize and Gold Medal with Jury's Commendation**
The 39th International Exhibition of Inventions of Geneva (Geneva, Switzerland, 6-10 April, 2011)
(Team Leader: *An Innovative Secured Retinal Imaging System for Non-intrusive Diabetic Care*)
- **2011: Technology Transfer of Retinal Imaging System**
(Three-year contract with *Wealth Billion International (HK) Ltd* via PolyU with effect from 16 Dec.2011)
- **2011: ICMLC 2011 Lofti Zadeh Best Paper Award**
The 2011 International Conference on Machine Learning and Cybernetics (10-13 July, 2011)
(Co-author of the paper entitled "*Sparse representation based spectral regression*")
- **2011: 2011 Faculty Best Research Team Award (Team member of the awarded biometrics research team)**
- **2010: 2010 Faculty External Grants Achievement Award, PolyU**
- **2009: The 2nd place in SPIE Medical Imaging'2009 Retinopathy Online Challenge (ROC'2009)**
(Team Leader for the international competition ROC'2009, Florida, USA, 12-17 Feb., 2009)
- **2009: US Patent No. US7,496,214 B2, date of patent: 24 Feb. 2009**
(David Zhang Dapeng, Jane You Jia, Wai Kin Adams Kong, Guangming Lu and Xiangqian Wu
Method of palmprint identification)
- **2009: 2009 Hong Kong Awards for Industries: Machinery and Machine Tools Design Certificate of Merit**
(Team member of the awarded project "*High-performance Palmprint-based Security System*")
- **2004: The Hong Kong Polytechnic University Outstanding Professional Services and Innovation Award**
(Team member for the "*Successful Patent Award*" and "*Internal Award*")

- **2004: Hong Kong Patent No. HK1062117, date of patent: 17 Sept., 2004**
(David Zhang Dapeng, Jane You Jia, Wai Kin Adams Kong, Guangming Lu and Xiangqian Wu
Method of palmprint identification using geometry, line and/or texture features)
- **2003: Special Gold Award and Gold Medal,**
The 14th National Invention Exhibition of China (Xiamen, October, 2003)
(Team member of the awarded project ``High Speed and Low Cost Security System Using Palmprint Technology’’)
- **2003: 2003 Hong Kong Awards for Industries: Consumer Design Certificate of Merit**
(Team member of the awarded project ``Palmprint Identification System’’)
- **1994: French Foreign Ministry International Fellowship**

5. Major competitive external research grants

- **2015: The Hong Kong Government Innovation and Technology Fund (ITF Internship Scheme)**
(PI: *Smart fetal monitoring belt*)
- **2015: Hong Kong Ph.D Fellowship Scheme (HKPF)**
(PI: *Semi-automated segmentation of brain MRI data by deep learning*)
- **2014: The Hong Kong Government General Research Grant (GRF)**
(PI: *Computer-aided personalized medical monitoring in mobile cloud computing environment*)
- **2014: The Hong Kong Government Innovation and Technology Fund (ITF/HKRITA Platform Scheme)**
(PI: *Smart fetal monitoring belt*)
- **2009: The Hong Kong Government Innovation and Technology Fund (ITF Tier 3 Scheme)**
(PI: *The development of a new high performance fundus camera for automated medical diagnosis and monitoring*)
- **2009: The Hong Kong Government General Research Grant (GRF)**
(PI: *A new retinal imaging approach to computer-aided eye care*)
- **2008: The Hong Kong Government General Research Grant (GRF)**
(PI: *A new image processing approach to non-invasive diabetic diagnosis and monitoring*)
- **2007: The Hong Kong Government General Research Grant (GRF)**
(PI: *Computer-aided medical diagnosis by hierarchical retinal image analysis*)
- **2001: France/Hong Kong Joint Research Scheme (PROCORE’2001)**
(PI: *A web-based intelligent browsing system for e-commerce applications*)

6. Research projects

- **Research interests:**
Computer-aided diagnosis (CAD), smart sensing, medical imaging, pattern recognition, biometrics computing, content-based image retrieval, multimedia systems and applications, data mining and data warehousing
- **On-going projects:**
 - Smart mobile healthcare
 - Smart 3D Pad: A new interactive glasses-free 3D show with emotion analysis
 - Smart Building: A new imaging platform for security, safety and energy efficiency monitoring
 - Smart fetal monitoring system
 - The fusion of multi-channel medical features for computer-aided diagnosis (CAD)
- **Selected completed projects:**
 - Smart mobile apps for home monitoring and elderly care (*HK ICT Expo’2015*)
 - Automated truck loading monitoring for smart logistic management and road safety control (*HK ICT Expo’2014*)
 - A new ensemble learning framework for automated detection of diabetic retinopathy
 - A secured medical imaging system with privacy protection by lossless data hiding
 - Astigmatism and eye shape
 - Automated medical diagnosis by adaptive change detection and image understanding
 - Telecare of the elderly by motion detection in a home-based environment
 - eMedicare – A web-based medical information retrieval system
 - eGuard – Automated identity verification and identification using multiple personal features
 - Smart Shopper – An agent based web-mining system for internet shopping
 - Environmental monitoring by image understanding
 - Smart-light LED multimedia display system
 - Hierarchical image query by attribute for large image and video databases
 - Indexing and searching distributed image library
 - A real-time object recognition system for aerial images using multiprocessors
 - A texture analysis system for 2D digital images

7. Teaching activities

- **Supervision:**
 - 3 Ph.D students on-going (chief-supervisor)
 - 2 EngD on-going (chief-supervisor)
 - 7 Ph.D students graduated (chief-supervisor)
 - many MSc/FYP students
- **Postgraduate course taught:**
 - Computerized Healthcare: Sensors, Systems & Applications
 - Intelligent Information Systems
 - IS Project Management
 - B2B and B2C E-Commerce and Management
 - Introduction to Information Systems
 - Information Systems Acquisition and Integration
 - Customer Relationship Management and Technology
 - Computer Image Generation and Applications
 - IT and Logistics
 - Information Security: Systems and Applications
 - Biometrics Authentication: Systems and Technology
 - Information System Development with OO Method
 - Database Systems and Management
 - Data Mining and Data Warehousing
 - Advanced Topics in Computer Graphics
 - Advanced Object-Oriented Design and Programming
 - Information System Integration – IT Case Studies
 - Advanced Topics in Computer Vision
 - Internet & E-commerce Applications
- **Undergraduate course taught:**
 - Computer Graphics
 - Biometrics and Information Security
 - Information Systems and Management
 - Software Engineering and User Interface
 - Internet Computing
 - Human Factors and User Interface
 - Introduction to Operating System
 - Computer System Architecture
 - Operating System and System Programming
 - Computer Communication Networks

8. Professional Service

- **International Journal Editorial Board**
 - *Pattern Recognition* (Associate Editor since March 2011)
 - *Frontiers in ICT* (Associate Editor of Computer Image Analysis since 2016)
 - *The International Journal of Image Processing (IJIP)* (Associate Editor-in-Chief, since July 2009)
 - *The International Journal of Image Processing and Graphics (IJIG)* (since 2001)
- **Guest Editor of Special Issues of International Journals**
 - *IEEE Trans. Multimedia* (SI on *Multimedia Computing for Computerized Healthcare*, Oct. 2016)
- **Refereeing and Reviewing Experience**
 - Assessor for Hong Kong GRF, ITF grant applications
 - External Examiner for many Ph.D theses
 - Refereeing for many journals including *IEEE Trans. PAMI, Fuzzy Systems, CSVT, SMC-A, SMC-B, Pattern Recognition, CVPR, etc.*,
 - Reviewer for many international conferences including ICPR, ICMB, ICIP, IPCV etc.
- **Conference Organization**
 - IEEE International Conference on Multimedia and Expo (ICME) 2017 Special Session: *Multimedia Applications in Healthcare*

- Program Chair for *ICCH2015, SmartComp2014, ICCH2012, IEEE ICDIM'2011, ICMB2010, ICMB2008*
- PC member of many international conferences

9. Selected Publications

- **Book**

- [1] J. You, Q. Li and P. Bhattacharya, *Super Eye Guard -- Automated Iris and Retina Image Analysis for Security and Medical Application*, to be published by Springer Verlag in 2014.

- **Accepted journal articles**

- [1] N.W. Zhao, L.F. Zhang, B. Du, Q. Zhang, J. You and D.C. Tao, "Robust dual clustering with adaptive manifold regularization," *IEEE Trans. on Knowledge and Data Engineering (T-KDE)*, accepted for publication, 2017.
(DOI:10.1109/TKDE.2017.2732986)
- [2] Z.W. Yu, Z.Q. Kuang, J.M. Liu, H.S. Chen, J. Zhang, J. You, H.S. Wong and G.Q. Han, "Adaptive ensembling of semi-supervised clustering solutions," *IEEE Trans. on Knowledge and Data Engineering (T-KDE)*, accepted for publication, 2017.
(DOI:10.1109/TKDE.2017.2695615)
- [3] Z.Q. Wang, Z.W. Yu, C.L. Chen, J. You, T.L. Gu, H.S. Wong and J. Zhang, "Clustering by local gravitation," *IEEE Trans. on Cybernetics*, accepted for publication, 2017.
(DOI: 10.1109/TCYB.2017.2695218)
- [4] Z.W. Yu, Y. Lu, J. Zhang, J. You, H.S. Wong, Y.D. Wang and G.Q. Han, "Progressive semi-supervised learning of multiple classifiers," *IEEE Trans. on Cybernetics*, accepted for publication, 2017.
(DOI: 10.1109/TCYB.2017.2651114)
- [5] Z.W. Yu, Z.Q. Wang, J. You, J. Zhang, J.M. Liu, H.S. Wong and G.Q. Han, "A new kind of nonparametric test for statistical comparison of multiple classifiers over multiple datasets," *IEEE Trans. on Cybernetics*, accepted for publication, 2016.
(DOI: 10.1109/TCYB.2016.2611020)
- [6] Z.W. Yu, X.J. Zhu, H.S. Wong, J. You, J. Zhang and G.Q. Han, "Distribution based cluster structure selection," *IEEE Trans. on Cybernetics*, accepted for publication, 2016.
(DOI: 10.1109/TCYB.2016.2569529)
- [7] Y. Xu, Z.F. Zhong, J. Yang, J. You and D. Zhang, "A new discriminative sparse representation method for robust face recognition via L2 regularization," *IEEE Trans. on Neural Networks and Learning Systems (T-NNLS)*, accepted for publication, 2016.
(DOI: 10.1109/TNNLS.2016.2580572)

- **Selected most representative publications in recent years**

- [1] Y. Xu, Z.M. Li, B. Zhang, J. Yang and J. You, "Sample diversity, representation effectiveness and robust dictionary learning for face recognition," *Information Sciences*, vol. 375, pp. 171-182, 2017.
(DOI: 10.1016/j.ins.2016.09.059)
- [2] C.Q. Hong, J. Yu, J. You, Z.W. Yu and X.H. Chen, "Three-dimensional image based human pose recovery with hypergraph regularized auto-encoders," *Multimedia Tools and Applications*, no. 8, vol. 76, pp. 10919-10937, 2017.
(DOI: 10.1007/s11042-016-3312-7)
- [3] X.S. Shi, Z.H. Guo, F.P. Nie, L. Yang, J. You and D.C. Tao, "Two dimensional whitening reconstruction for enhancing robustness of principal component analysis," *IEEE Trans. on Pattern Analysis and Machine Intelligence (T-PAMI)*, vol. 38, no. 10, pp. 2130-2136, 2016.
(DOI: 10.1109/TPAMI.2015.2501810)
- [4] Z.W. Yu, D.X. Wang, J. You, H.S. Wong, S. Wu, J. Zhang and G.Q. Han, "Progressive subspace ensemble learning," *Pattern Recognition*, vol. 60, pp. 692-705, 2016.
(DOI:10.1016/j.patcog.2016.06.017)
- [5] Q. Li, B. Xie, J. You, W. Bian and D.C. Tao, "Correlated logistic model with elastic net regularization for multi-label image classification," *IEEE Trans. on Image Processing (T-IP)*, vol. 25, no. 8, pp. 3801-3813, 2016.
(DOI: 10.1109/TIP.2016.2577382)

- [6] Z.W. Yu, P.N. Luo, J. You, S.H. Wong, H. Leung, S. Wu, J. Zhang and G.Q. Han, "Incremental semi-supervised clustering ensemble for high dimensional data clustering," *IEEE Trans. on Knowledge and Data Engineering (TKDE)*, vol. 28, no. 3, pp. 701-714, 2016.
(DOI: 10.1109/TKDE.2015.2499200)
- [7] Y.W. Lu, Z.H. Lai, Y. Xu, J. You, X.L. Li and C. Yuan, "Projective robust nonnegative factorization," *Information Sciences*, vol. 364, pp. 16-32, 2016.
(DOI: 10.1016/j.ins.2016.05.001)
- [8] Z.Z. Zhou, W.S. Zheng, J.F. Hu, Y. Xu and J. You, "One-pass online learning – A local approach," *Pattern Recognition*, vol. 51, no. 3, pp. 346-357, 2016.
- [9] Z.H. Guo, X.Z. Wang, J. Zhou and J. You, "Robust texture image representation by scale selective local binary patterns," *IEEE Trans. on Image Processing (T-IP)*, vol. 25, no. 2, pp. 687- 699, 2016.
- [10] Z.W. Yu, H.T. Chen, J. You, H. Leung, J.M. Liu and G.Q. Han, "Hybrid K nearest neighbor classifier," *IEEE Trans. on Cybernetics*, vol. 46, no. 6, pp. 1263-1275, 2016.
- [11] C.Q. Hong, J. Yu, J. You, X.H. Chen and D.P. Tao, "Multi-view ensemble manifold regularization for 3D object recognition," *Information Sciences*, vol. 320, Nov., pp. 395-405, 2015.
(DOI: 10.1016/j.ins.2015.03.032).
- [12] Q. Li, X. Li, Z.H. Guo and J. You, "Online personal verification by palmvein image through palmprint-like and palmvein information," *Neurocomputing*, vol. 147, pp. 364-371, 2015.
- [13] Z.W. Yu, H.T. Chen, J. You, H.S. Wong, J.M. Liu, G.Q. Han and L. Li, "Adaptive fuzzy consensus clustering framework for clustering analysis of cancer data," *IEEE/ACM Trans. on Computational Biology and Bioinformatics (TCBB)*, vol. 12, no. 4, pp. 887-901, 2015
(DOI: 10.1109/TCBB.2014.2359433).
- [14] T.S. Jin, J. Yu, J. You, K. Zeng, C.H. Li and Z.T. Yu, "Low rank matrix factorization with multiple hypergraph regularizer," *Pattern Recognition*, vol. 48, no. 3, pp. 1011-1022, 2015.
- [16] J. Xie, L. Zhang, J. You and C.K. Shiu, "Effective texture classification by texton encoding induced statistical features," *Pattern Recognition*, vol. 48, no. 2, pp. 447-457, 2015.
- [17] J. Liu, Y. Xu, Y. Gao, C. Zheng and J. You, "Differential expression analysis on RNA-Seq count data based on penalized matrix decomposition," *IEEE Trans. on NanoBioScience (TNB)*, vol. 13, no. 1, pp. 12-18, 2014 (<http://doi.ieeecomputersociety.org/10.1109/TNB.2013.2296978>)
- [18] J. Yu, R.C. Hong, M. Wang and J. You, "Image clustering based on sparse patch alignment framework," *Pattern Recognition*, vol. 47, no. 11, pp. 3512-3519, 2014 (10.1016/j.patcog.2014.05.002).
- [19] Z.W. Yu, G.Q. Han, L. Li and J. You, "Hybrid clustering solution selection strategy," *Pattern Recognition*, vol. 47, no. 10, pp. 3362-3375, 2014.
- [20] Z.W. Yu, H.S. Chen, J. You, H.S. Wong, J. Liu, L. Li and G.G. Han, "Double selection based semi-supervised clustering ensemble for tumor clustering from gene expression profiles," *IEEE/ACM Trans. on Computational Biology and Bioinformatics (TCBB)*, vol. 11, no. 4, pp. 727-740, 2014.
- [21] Y. Xu, X. Fang, X. Li, J. You, H. Liu and S. Teng, "Data uncertainty in face recognition," *IEEE Trans. on Cybernetics (TC)*, vol. 44, no. 10, pp. 1950-1961, 2014.
- [22] Z.W. Yu, L. Li, H.S. Wong, J. You, G.Q. Han, Y.J. Gao and G.X. Yu, "Probabilistic cluster structure ensemble," *Information Sciences*, vol. 267, pp. 16-34, 2014.
- [23] K. Zeng, J. Yu, C.H. Li, J. You and T.S. Jin, "Image clustering by hyper-graph regularized non-negative matrix factorization," *Neurocomputing*, vol. 138, pp.209-217, 2014.
- [24] Z. W. Yu, G.Q. Han, L. Li and J. You, "Hybrid fuzzy cluster ensemble framework for tumor clustering from bio-molecular data," *IEEE/ACM Trans. on Computational Biology and Bioinformatics (TCBB)*, vol. 10, no. 3, pp. 657-670, 2013.
- [25] Z.H. Guo, Q. Li, L. Zhang, J. You, D. Zhang, and W.H. Liu, "Is local dominant orientation necessary for the classification of rotation invariant texture", *Neurocomputing*, vol. 116, pp.182-191, 2013.
- [26] B. Zhang, X.Z. Wang, J. You and D. Zhang, "Tongue color analysis for medical application", *Evidence-Based Complementary and Alternative Medicine*, vol. 2013, Article ID. 264742, 2013.
(<http://dx.doi.org/10.1155/2013/264742>)
- [27] Z.W. Yu, L. Li, J. You, H.S. Wong and G.Q. Han, "SC³: Triple spectral clustering based consensus clustering framework for class discovery from cancer gene expression profiles," *IEEE/ACM Trans. on Computational Biology and Bioinformatics (TCBB)*, vol. 9, no. 6, pp. 1751-1765, 2012.
- [28] Y.P. Zheng, Z. W. Yu, J. You and M. Sarem, "A novel gray image representation using overlapping rectangular NAM and extended shading approach," *Journal of Visual Communication and Image Representation*, vol. 23, no. 7, pp. 972-983, 2012.
- [29] Z. W. Yu, J. You, L. Li, H.S. Wong and G.Q. Han, "Representative distance: a new similarity measure for cancer discovery from gene expression data," *IEEE Trans. on NanoBioScience (TNB)*, vol. 11, no. 4, pp. 341-351, 2012.

- [30] F.X. Song, J. You, D. Zhang and Y. Xu, "Impact of full rank principal component analysis on classification algorithms for face recognition," *International Journal of Pattern Recognition and Artificial Intelligence*, vol. 26, no. 3, pp. 1256-1305 (23 pages), 2012 (DOI: 10.1142/S0218001412560058).
- [31] B. Zhang, J. You and F. Karray, "Detecting optic disc on Asians by multiscale Gaussian filtering," *International Journal of Biomedical Imaging*, vol. 2012, Article ID 727154, doi: 10.1155/2012/727154., 2012.
- [32] J.H. Wang, J. You, Q. Li, and Y. Xu, "Orthogonal discriminant vector for face recognition across pose," *Pattern Recognition*, vol. 45, no. 12, pp. 4069-4079, 2012.
- [33] Z.W. Yu, H.S. Wong, J. You and G.Q. Han, "Visual query processing for efficient image retrieval using a SOM-based filter-refinement scheme," *Information Sciences*, vol. 203, pp. 83-101, 2012.
- [34] Z.W. Yu, J. You, H.S. Wong and G.Q. Han, "From cluster ensemble to structure ensemble," *Information Sciences*, vol. 198, pp. 81-99, 2012.
- [35] Z.H. Guo, Q. Li, J. You, D. Zhang, and W.H. Liu, "Local directional derivative pattern for rotation invariant texture classification," *Neural Computing and Applications*, vol. 21, no. 8, pp. 1893-1904, 2012.
- [36] Q. Li, J. You and D. Zhang, "Vessel segmentation and width estimation in retinal images using multiscale production of matched filter responses," *Expert Systems with Applications*, vol. 39, pp. 7600-7610, 2012.
- [37] J. Xie, L. Zhang, J. You, D. Zhang and X. Qu, "A study of hand back skin texture pattern for personal identification and gender classification," *Sensors*, vol. 12, no. 7, pp. 8691-8709, 2012.
- [38] Z.W. Yu, H.S. Wong, J. You, G.X. Yu and G.Q. Han, "Hybrid Cluster Ensemble Framework based on the Random Combination of Data Transformation Operators," *Pattern Recognition*, vol. 45, no. 5, pp. 1826-1837, 2012.
- [39] J.H. Wang, J. You, Q. Li, and Y. Xu, "Extract minimum positive and maximum negative features for imbalanced binary classification," *Pattern Recognition*, vol. 45, no. 3, pp. 1136-1145, 2012.
- [40] G.X. Yu, G.J. Zhang, C. Domeniconi, Z.W. Yu and J. You, "Semi-supervised classification based on random subspace dimensionality reduction," *Pattern Recognition*, vol. 45, no. 3, pp. 1119-1135, 2012.
- [41] G.X. Yu, G.J. Zhang, Z.W. Yu, C. Domeniconi, Z.W. Yu and J. You, "Semi-supervised ensemble classification in subspaces," *Applied Soft Computing*, vol. 9, no. 5, pp. 1026-1036, 2012.
- [42] Z.W. Yu, H.S. Wong, J. You, Q.M. Yang and H.Y. Liao, "Knowledge based cluster ensemble for cancer discovery from bio-molecular data," *IEEE Trans. on Nanobioscience*, vol. 10, no. 2, pp. 76-85, 2011.
- [43] J.H. Wang, Q. Li, J. You and Q.J. Zhao, "Fast kernel Fisher discriminant analysis via approximating the kernel principal component analysis," *NeuroComputing*, vol. 74, no. 17, pp. 3313-3322, 2011.
- [44] M. Niemeijer, B. Zhang, X.Q. Wu, J. You, Q. Li, F. Karray and M.D. Abramoff, *et. al.*, "Retinopathy On-line Challenge: Automatic detection of microaneurysms in digital color fundus photographs," *IEEE Trans. on Medical Imaging*, vol. 29, no. 1, pp. 185-195, 2010.
- [45] B. Zhang, X.Q. Wu, J. You, Q. Li and F. Karray, "Detection of microaneurysms using multi-scale correlation coefficients," *Pattern Recognition*, vol. 43, no. 6, pp. 2237-2248, 2010.
- [46] J.H. Wang, Y. Xu, D. Zhang and J. You, "An efficient method for computing orthogonal discriminant vectors," *NeuroComputing*, vol. 73, no. 10-12, pp. 2168-2176, 2010.
- [47] L. Zhang, Q. Li, J. You and D. Zhang, "Modified matched filter with double-side thresholding and its application to proliferative diabetic retinopathy screening," *IEEE Trans. on Information Technology in Biomedicine*, vol. 13, no. 4, pp. 528-534, 2009.
- [48] L. Liu, D. Zhang and J. You, "Detecting wide lines using isotropic nonlinear filtering," *IEEE Trans. Image Processing*, vol. 16, no. 6, pp. 1584-1595, 2007.
- [49] W.K. Kong, K.H. Cheung, D. Zhang, M. Kamel and J. You, "An analysis of biohashing and its variants," *Pattern Recognition*, vol. 39, pp. 1359-1368, 2006.
- [50] W.X. Li, J. You and D. Zhang, "Texture-based palmprint retrieval using a layered search scheme for personal identification," *IEEE Trans. Multimedia*, vol. 7, no. 5, pp. 891-898, 2005.
- [51] J. You, W.K. Kong, D. Zhang and K.H. Cheung, "On hierarchical palmprint coding with multi-features for personal identification in large databases," *IEEE Trans. Circuits and Systems for Video Technology*, vol. 14, no. 2, pp. 234-243, 2004.
- [52] D. Zhang, W.K. Kong, J. You and M. Wong, "On-line palmprint identification," *IEEE Trans. PAMI*, vol. 25, no. 9, pp. 1041-1050, 2003.
- [53] J. You, W.X. Li and D. Zhang, "Hierarchical palmprint identification via multiple feature extraction," *Pattern Recognition*, vol. 35, no. 4, pp. 847-859, 2002.
- [54] J. You and P. Bhattacharya, "A wavelet-based coarse-to-fine image matching scheme in a parallel virtual machine environment," *IEEE Trans. Image Processing*, vol. 9, pp. 1547-1559, 2000.

- **Selected recent conference papers**

- [1] X.F. Liu, V. Bhagavatula, J. You and P. Jia, "Adaptive deep metric learning for identity-aware facial expression recognition," *Proc. Biometrics Workshop, IEEE Conf. on Computer Vision and Pattern Recognition (CVPR2017)*, Honolulu, Hawaii, USA, 21-26 July, 2017.
- [2] A. W. Dougherty and J. You, "A kernel-based adaptive fuzzy c-means algorithm for M-FISH image segmentation," *Proc. of 2017 International Joint Conference on Neural Networks (IJCNN'2017)*, Anchorage, AK, USA, 14-19 May, 2017, pp. 198-205.
- [3] J. You, Q. Li, Z.H. Guo and R.H. Zhao, "Smart fetal monitoring," *Proc. 2017 Int. Conf. on Information Science and Applications ICISA'2017 (Springer Lecture Notes in Electrical Engineering, vol. 424, Editors: Kuinam Kim and Nikolai Joukov, ISBN 978-981-10-4153-2)*, Macau, 20-23 March, 2017, pp. 494-503.
- [4] L.F. Zhang, Q. Zhang, B. Du, D.C. Tao and J. You, "Robust manifold matrix factorization for joint clustering and feature extraction," *Proc. AAAI Conf. on Artificial Intelligence (AAAI)*, San Francisco, CA, USA, 4-9 Feb., 2017, pp. 1662-1668.
- [5] J. Pu, Q. Zhang, L.F. Zhang, B. Du and J. You, "Multiview clustering based on robust and regularized matrix approximation," *Proc of International Conference on Pattern Recognition (ICPR)*, Cancun, Mexico, 4-8 Dec., 2016, pp. 2550-2555.
- [6] N.W. Zhao, L.F. Zhang, B. Du, L.P. Zhang, D.C. Tao and J. You, "Sparse tensor discriminative locality alignment for gait recognition," *Proc. 2016 Int. Joint Conf. on Neural Networks(IJCNN)*, Vancouver, Canada, 24-29 July, 2016, pp. 4489-4495.
- [7] Q. Li, W. Bian, Y.D. Xu, J. You and D.C. Tao, "Random mixed field model for mixed-attribute data restoration," *Proc. AAAI Conf. on Artificial Intelligence (AAAI)*, Phoenix, Arizona USA, 12-17 Feb., 2016, pp. 1244-1250.