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

- **2018:** ***Technology Transfer of Smart Fetal Monitoring Belt***
  (10-year license agreement with ***Forte Global Smart Solutions Limited*** via HKRITA, effect from 19 April, 2018)
- **2018:** ***ISBA2018 IBM Best Paper Award***
  2018 IEEE International Conference on Identity, Security and Behavior Analysis (11-12 Jan., 2018)
  (Co-author, ``*Normalized face image generation with perceptron generative adversarial networks"*)
- **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 and industry funding

- **2018:** Pureron Japan Co. Ltd Funds for Collaborative Research
  (PI: *Smart mental health care*)
- **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:**
  - An open hearing aid platform for smart age care
  - Smart brain health care
  - Blockchain based smart medical data analysis for personalized healthcare
  - Real-time truck loading monitoring system for smart construction waste management
  - Big data analytics for healthcare (2018 – 2020, funded by *Hong Kong Scholars Program*)
  - 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:**
  - Advanced machine learning methods for remote sensing big data mining
    (2016 – 2018, funded by *Hong Kong Scholars Program*)
  - Smart mobile apps for home monitoring and elderly care *(HK ICT Expo'2015)*
  - Machine Learning for Health Informatics (2014 – 2016, funded by *Hong Kong Scholars Program*)
  - 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:**
  - 5 Ph.D students on-going (chief-supervisor)
  - 1 EngD student graduated, 1 EngD student on-going (chief-supervisor)
  - 8 Ph.D students graduated (chief-supervisor)
  - many MSc/FYP students

- **Postgraduate course taught:**
  - Computerized Healthcare: Sensors, Systems & Applications
  - Service Sciences Management
  - 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:**
  - Business Intelligence and Customer Relationship Management
  - 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] Z.W. Yu, Y.D Zhang, J. You, P. Chen, H.S. Wong, G.Q. Han and J. Zhang, ``Adaptive semi-supervised classifier ensemble for high dimensional data classification,'' *IEEE. Trans. on Cybernetics*, accepted for publication, 2018.
(DOI: 10.1109/TCYB.2017.2761908)

[2] Z.W. Yu, D.X. Wang, Z.X. Zhao, P. Chen, J. You, H.S. Wong and J. Zhang, ``Hybrid incremental ensemble learning for noisy real-world data classification,'' *IEEE. Trans. on Cybernetics*, accepted for publication, 2018.
(DOI: 10.1109/TCYB.2017.2774266)

[3] Z.W. Yu, Y.D. Zhang, P. Chen, J. You, H.S. Wong, D. Dai, S. Wu and J. Zhang, ``Multi-objective semi-supervised classifier ensemble,'' *IEEE. Trans. on Cybernetics*, accepted for publication, 2018.
(DOI: 10.1109/TCYB.2018.2824299)

[4] Z.W. Yu, P.N. Luo, J.M. Liu, H.S. Wong, J. You, G.Q. Han and J. Zhang, ``Semi-supervised ensemble clustering based on selected constraint projection,'' *IEEE. Trans. on Knowledge and Data Engineering (TKDE)*, accepted for publication, 2018.
(DOI: 10.1109/TKDE.2018.2818729)

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

[1] 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*, vol. 48, no. 5, pp. 1383-1396, 2018.
(DOI: 10.1109/TCYB.2017.2695218)

[2] 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*, vol. 48, no. 2, pp. 689-702, 2018.
(DOI: 10.1109/TCYB.2017.2651114)

[3] Y.X. Hu, J. You, N.K. Liu and T.T. He, ``An eigenvector based center selection for fast training scheme of RBFNN,'' *Information Sciences*, vol. 428, pp. 62-75, 2018.
(DOI: 10.1016/j.ins.2017.08.092)

[4] 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*, vol. 47, no. 12, pp. 4418-4430, 2017.
(DOI: 10.1109/TCYB.2016.2611020)

[5] 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*, vol. 47, no. 11, pp. 3554-3567, 2017.
(DOI: 10.1109/TCYB.2016.2569529)

[6] 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)*, vol. 29, no. 11, pp. 2498-2509, 2017.
(DOI:10.1109/TKDE.2017.2732986)

[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)*, vol. 28, no. 10, pp. 2233-2242, 2017.
(DOI: 10.1109/TNNLS.2016.2580572)

[8] 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)*, vol. 29, no. 8, pp. 1577-1590, 2017.
(DOI:10.1109/TKDE.2017.2695615)

[9] 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)

[10] 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)

[11] X.S. Shi, Z.H. Guo, F.P. Nie, L. Yang, J. You and D.C. Tao, `` Two dimentional 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)

[12] 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*, vol. 25, no. 2, pp. 687-699,2016.

[13] 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)

[14] J. Zhang, J. Yu, J. You, D.Tao, N. Li, and J. Cheng, ``Data-driven facial animation via semi-supervised local patch alignment,'' *Pattern Recognition*, vol. 57, pp. 1-20, 2016.
(DOI:10.1016/j.patcog.2016.02.021)

[15] 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)

[16] 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)

[17] 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)

[18] 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.

[19] 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.

[20] 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.

[21] 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).

[22] 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.

[23] 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).

[24] 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.

[25] 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.

[26] 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)

[27] 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).

[28] 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.

[29] 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.

[30] Y. Xu, X. Fang, X. Li, J. Yang, 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.

[31] 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.

[32] 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.

[33] 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.

[34] 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.

[35] 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)

[36] Z.W. Yu, L. Li, J. You, H.S. Wong and G.Q. Han, ``SC^3 : 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.

[37] 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.

[38] 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.

[39]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. 1256005 (23 pages), 2012 (DOI: 10.1142/S0218001412560058).

[40] 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.

[41] 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.

[42] 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.

[43] 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.

[44] 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.

[45] 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.

[46] 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.

[47] 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.
[48] 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.
[49] 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.
[50] 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.
[51] 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.
[52] J.H. Wang, Q. Li, J. You and Q.J. Zhao,``Fast kernel Fisher discriminent analysis via approximating the kernel principal component analysis," *NeuroComputing*, vol. 74, no. 17, pp. 3313-3322, 2011.
[53] 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.
[54] 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.
[55] 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.
[56] L. Zhang, Q. Li, J. You and D. Zhang, "Modified matched filter with double-side thresholding and its application to prolifetive diabetic retinopathy screening", *IEEE Trans. on Information Technology in Biomedicine,* vol. 13, no. 4, pp. 528-534, 2009.
[57] 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.
[58] 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.
[59] 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.
[60] 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.
[61] 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.
[62] 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.
[63] 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, L.S. Kong, Z.H. Diao, J.L. Yan, Y. Zou, C. Yang, P. Jia and J. You, ``A joint optimization framework of low-dimensional projection and collaborative representation for discriminative classification,*'' accepted for publication in Proc. ICPR 2018,* Beijing, China, 20-24 August, 2018.
[2] X.F. Liu, Y. Zou, L.S. Kong, Z.H. Diao, J.L. Yan, S.H. Li, P. Jia and J. You, ``Data augumentation via latent space interpolation for image classification,,*'' accepted for publication in Proc. ICPR 2018,* Beijing, China, 20-24 August, 2018.
[3] G. Yang, J. You, T. Xiao, N. He., Z. Guo and Q. Li, "A new ETC system by fusion of RFID and deep visual visual information,". *Proc. 16th Intelligent Transport Systems Asia Pacific Forum, FUKUOKA 2018*, Fukuoka, Japan, 8-10 May, 2018.
[4] G. Yang, J. You, Z. Guo and Q. Li, "Vision based vehicle re-identification by fusion of multiple features". *Proc. SPIE Conf. Imaging and Multimedia Analytics in a Web and Mobile World (IMAWMW),* San Francisco, USA, 27 Jan. – 01 Feb., 2018, pp. 467-1-467-7. (DOI:https://doi.org/10.2352/ISSN.2470-1173.2080.10.IMAWM-467)
[5] X.F. Liu, V. Bhagavatula, Y.B. Ge, C. Yang, J. You and P. Jia, ``Normalized face image generation with perceptron generative adversarial networks,*'' Proc. 2018 IEEE 4th Int. Conf. Identity, Security and Behavior Analysis (ISBA2018),* Singapore, 11-12 Jan. 2018, pp. 1-8. (**Best paper award**)

[6] L.F. Zhang, Q. Zhang, B. Du, J. You and D.C. Tao, ``Adaptive manifold regularized matrix factorization for data clustering,'' *Proc. of the Twenty-sixth Int. Joint Conf. on Artificial Intelligence (IJCAI2017*), Melbourne, Australia, 19-25 Aug., 2017, pp. 3399-3405. (https://doi.org/10.24963/ijcai.2017/475)

[7] 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 (CVPRW2017),* Honolulu, Hawaii, USA, 21-26 July, 2017, pp. 522-531.

[8] 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.

[9] 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.

[10] 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.

[11] 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.

[12] 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.

[13] 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.