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Chen, F., Huang, X., Zhou, J.

Hierarchical minutiae matching for fingerprint and palmprint identification

(2013) IEEE Transactions on Image Processing, 22 (12), art. no. 6587839, pp. 4964-4971.

Su, H., Zhou, J., Zhang, Z.-H.

Survey of super-resolution image reconstruction methods

(2013) Zidonghua Xuebao/Acta Automatica Sinica, 39 (8), pp. 1202-1213.

Cui, Z., Deng, L., Li, A., Jiang, K., Zhou, J.

Master-slave tracking algorithm using dual PTZ cameras based on ground plane constraint

(2013) Hongwai yu Jiguang Gongcheng/Infrared and Laser Engineering, 42 (8), pp. 2252-2261.

Cui, Z.-G., Li, A.-H., Jiang, K., Zhou, J.

A master-slave tracking algorithm using two PTZ cameras

(2013) Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 35 (4), pp. 777-783.

Xiao, F., Zhou, J.

Active set based cutting plane algorithm for SVM

(2013) Tien Tzu Hsueh Pao/Acta Electronica Sinica, 41 (4), pp. 757-762.

Li, J., Zhou, J., Mao, X.

Analysis of the structure and function of phono-semantic compounds based on complex networks

(2012) Proceedings of the 2012 International Conference on Artificial Intelligence, ICAI 2012, 1, pp. 480-484.

Li, J., Zhou, J., Luo, X., Yang, Z.

Chinese lexical networks: The structure, function and formation

(2012) Physica A: Statistical Mechanics and its Applications, 391 (21), pp. 5254-5263.

Yan, Z., Zhou, J.

User recommendation with tensor factorization in social networks

(2012) ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings, art. no. 6288758, pp. 3853-3856.

Feng, J., Shi, Y., Zhou, J.

[Robust and efficient algorithms for separating latent overlapped fingerprints](#)
(2012) IEEE Transactions on Information Forensics and Security, 7 (5), art. no. 6215041, pp. 1498-1510.

Dai, J., Feng, J., Zhou, J.
[Robust and efficient ridge-based palmprint matching](#)
(2012) IEEE Transactions on Pattern Analysis and Machine Intelligence, 34 (8), art. no. 6112761, pp. 1618-1632.

Su, H., Tang, L., Wu, Y., Tretter, D., Zhou, J.
[Spatially adaptive block-based super-resolution](#)
(2012) IEEE Transactions on Image Processing, 21 (3), art. no. 6008647, pp. 1031-1045.

Zhou, X., Lu, Y., Lu, J., Zhou, J.
[Abrupt motion tracking via intensively adaptive markov-chain monte carlo sampling](#)
(2012) IEEE Transactions on Image Processing, 21 (2), art. no. 6021372, pp. 789-801.

Yang, X., Feng, J., Zhou, J.
[Palmprint indexing based on ridge features](#)
(2011) 2011 International Joint Conference on Biometrics, IJCB 2011, art. no. 6117505, .

Su, H., Wu, Y., Zhou, J.
[Adaptive incremental video super-resolution with temporal consistency](#)
(2011) Proceedings - International Conference on Image Processing, ICIP, art. no. 6115632, pp. 1149-1152.

Chen, F., Feng, J., Jain, A.K., Zhou, J., Zhang, J.
[Separating overlapped fingerprints](#)
(2011) IEEE Transactions on Information Forensics and Security, 6 (2), art. no. 5712197, pp. 346-359.

Dai, J., Zhou, J.
[Multifeature-based high-resolution palmprint recognition](#)
(2011) IEEE Transactions on Pattern Analysis and Machine Intelligence, 33 (5), art. no. 5557887, pp. 945-957.

Chen, F., Feng, J., Zhou, J.
[On separating overlapped fingerprints](#)
(2010) IEEE 4th International Conference on Biometrics: Theory, Applications and Systems, BTAS 2010, art. no. 5634483, .

Chen, F., Zhou, J.
A hierarchical algorithm for multi-feature based fingerprint identification
(2010) Proceedings - International Conference on Image Processing, ICIP, art. no. 5654281, pp. 3093-3096.

Hu, H., Gu, Q., Zhou, J.
HTF: A novel feature for general crack detection
(2010) Proceedings - International Conference on Image Processing, ICIP, art. no. 5653171, pp. 1633-1636.

Chen, F., Zhou, J.
A comparative study of combining multiple features for fingerprint recognition
(2010) Emerging Techniques and Challenges for Hand-Based Biometrics, ETCHB 2010, art. no. 5559281, .

Wan, D., Zhou, J.
Self-calibration of spherical rectification for a PTZ-stereo system
(2010) Image and Vision Computing, 28 (3), pp. 367-375.

Tang, X., Yang, C., Zhou, J.
Stock price forecasting by combining news mining and time series analysis
(2009) Proceedings - 2009 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2009, 1, art. no. 5286063, pp. 279-282.

Gu, Q., Zhou, J.
Local learning regularized nonnegative matrix factorization
(2009) IJCAI International Joint Conference on Artificial Intelligence, pp. 1046-1051.

Li, X., Huang, M., Wei, L., Liu, R., Zhao, Y., Wu, H., Zhou, J.
Multi-regional power network model online splicing and merging
(2009) Dianli Xitong Zidonghua/Automation of Electric Power Systems, 33 (22), pp. 49-52+83.

Tian, A., Li, W., Xiao, L., Wang, D., Zhou, J., Zhang, T.
Histogram matching for music repetition detection
(2009) Proceedings - 2009 IEEE International Conference on Multimedia and Expo, ICME 2009, art. no. 5202583, pp. 662-665.

Ma, Z.-Y., Zhou, J., Zhang, L.
A scalable framework for global application anycast
(2009) 2009 2nd International Conference on Information and Computing Science, ICIC 2009, 1, art. no. 5169587, pp. 250-253.

Gu, Q., Zhou, J.
Co-clustering on manifolds
(2009) Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 359-367.

Gu, Q., Zhou, J.
Transductive classification via dual regularization
(2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5781 LNAI (PART 1), pp. 439-454.

Zhang, X.-J., Chen, G., Zhou, J., Ma, A.-J., Zhang, Z.-J.
Medium and long-term load forecast based on PSO-RSVR
(2009) Dianli Xitong Baohu yu Kongzhi/Power System Protection and Control, 37 (21), pp. 77-81.

Song, E., Shen, X., Zhou, J., Zhu, Y., You, Z.
Performance analysis of communication direction for two-sensor tandem binary decision system
(2009) IEEE Transactions on Information Theory, 55 (10), pp. 4777-4785.

Zhao, J., Zhou, J.
Effects of the temperature on the die life during forging process based on numerical simulation
(2009) Suxing Gongcheng Xuebao/Journal of Plasticity Engineering, 16 (5), pp. 26-29.

Gu, Q., Zhou, J.
Two dimensional Maximum Margin Criterion
(2009) ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings, art. no. 4959910, pp. 1621-1624.

Gu, Q., Zhou, J.
Regular simplex criterion: A novel feature extraction criterion
(2009) ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings, art. no. 4959900, pp. 1581-1584.

Xiao, L., Lu, L., Seide, F., Zhou, J.
Learning a music similarity measure on automatic annotations with application to playlist generation
(2009) ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings, art. no. 4959976, pp. 1885-1888.

Zhou, J., Ou, Y.-H.
Key tree and chinese remainder theorem based group key distribution scheme

(2009) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5574 LNCS, pp. 254-265.

Zhou, J., Ding, X., Sun, G., Hou, M., Yang, Y., Cheng, H., Teng, Y., Lu, W., Ding, K., Zhao, J.
New distributed PMU substation system
(2009) Dianli Xitong Zidonghua/Automation of Electric Power Systems, 33 (17), pp. 105-108.

Wang, S., Xiao, H., Zhou, J., Lei, S.
Research on differential geometry of stranded wire helical springs
(2009) Zhongguo Jixie Gongcheng/China Mechanical Engineering, 20 (17), pp. 2089-2093+2099.

Liu, X.-F., Zhou, J., Chen, C.-B.
Preparation of a N, O-bismethacryloyl ethanolamine-based tribenuron-methly imprinted polymeric membrane over a nylon-6 support and its transport selectivity
(2009) Gaodeng Xuexiao Huaxue Xuebao/Chemical Journal of Chinese Universities, 30 (9), pp. 1717-1723.

Si, B., Chen, C., Zhou, J.
New-generation of molecular imprinting technique
(2009) Progress in Chemistry, 21 (9), pp. 1813-1819.

Zhou, D., Zhou, J., Meng, L., Wang, Q., Xie, H., Guan, Y., Ma, Z., Zhong, Y., Chen, F., Liu, J.
Duplication and adaptive evolution of the COR15 genes within the highly cold-tolerant Draba lineage (Brassicaceae)
(2009) Gene, 441 (1-2), pp. 36-44.

Zhou, J., Cheng, P., Youn, J.-I., Cotter, M.J., Gabrilovich, D.I.
Notch and Wingless Signaling Cooperate in Regulation of Dendritic Cell Differentiation
(2009) Immunity, 30 (6), pp. 845-859.

Jin, R., Singh, S.K., Gu, S., Furukawa, H., Sobolevsky, A.I., Zhou, J., Jin, Y., Gouaux, E.
Crystal structure and association behaviour of the GluR2 amino-terminal domain
(2009) EMBO Journal, 28 (12), pp. 1812-1823.

Zhou, J., Chen, F., Gu, J.
A novel algorithm for detecting singular points from fingerprint images
(2009) IEEE Transactions on Pattern Analysis and Machine Intelligence, 31 (7), pp. 1239-1250.

Wang, M., Zhou, J., He, C., Yang, M., Feng, X.

[Weld-line movement and factors affecting formability for different thickness tailor-welded blank of square cup](#)
(2009) Jixie Gongcheng Xuebao/Journal of Mechanical Engineering, 45 (6), pp. 234-238+245.

Zheng, W., Zhao, Z., Chen, J., Liu, W., Ke, H., Zhou, J., Lu, G., Darvill, A.G., Albersheim, P., Wu, S., Wang, Z.
[A Cdc42 ortholog is required for penetration and virulence of Magnaporthe grisea](#)
(2009) Fungal Genetics and Biology, 46 (6-7), pp. 450-460.

Chen, F., Zhou, J., Yang, C.
[Reconstructing orientation field from fingerprint minutiae to improve minutiae-matching accuracy](#)
(2009) IEEE Transactions on Image Processing, 18 (7), pp. 1665-1670.

Long, E.-S., Zhou, J., Chen, J.-H.
[Flash pyrolysis liquefaction of biomass](#)
(2009) Chongqing Daxue Xuebao/Journal of Chongqing University, 32 (5), pp. 604-608.

Zhou, J., Yao, J., Deng, J., Dewald, J.P.A.
[EEG-based classification for elbow versus shoulder torque intentions involving stroke subjects](#)
(2009) Computers in Biology and Medicine, 39 (5), pp. 443-452.

Wang, X., Yang, C., Zhou, J.
[Clustering aggregation by probability accumulation](#)
(2009) Pattern Recognition, 42 (5), pp. 668-675.

Yang, Y.-B., Ding, X.-H., Zhou, J.
[Development of digitalized protection logic analyzing unit](#)
(2009) Dianli Xitong Baohu yu Kongzhi/Power System Protection and Control, 37 (9), pp. 93-96.

Xu, W.-J., Zhang, Z.-B., Zhou, J., Hu, F.-T.
[Analysis of TR upset-bending process and equipment optimization for heavy crankshaft with continuous grain flow](#)
(2009) Neiranji Xuebao/Transactions of CSICE (Chinese Society for Internal Combustion Engines), 27 (3), pp. 276-281.

Ben, Q.-W., Zhao, Z., Ge, S.-F., Zhou, J., Yuan, F., Yuan, Y.-Z.
[Circulating levels of periostin may help identify patients with more aggressive Colorectal cancer](#)
(2009) International Journal of Oncology, 34 (3), pp. 821-828.

Yang, J., Chen, X.-X., Zhou, J., Ren, R., Xia, S.-H.
Study of the influence of booms on spaceborne electric field sensors
(2009) Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 31 (4), pp. 1010-1012.

Shang, X.-Y., Zhou, G.-Q., Zhao, G.-S., Cheng, J.-Y., Zhou, J.
Monitoring data analysis of soil grouting reinforcement in vertical shaft
(2009) Yantu Lixue/Rock and Soil Mechanics, 30 (4), pp. 1073-1077.

Xu, W.-J., Wang, K.-Q., Zhou, J., Hu, F.-T.
Failure analysis of upset-bending equipment for a heavy crankshaft with continuous grain flow
(2009) Chongqing Daxue Xuebao/Journal of Chongqing University, 32 (4), pp. 396-401.

Wan, D., Zhou, J.
Multiresolution and wide-scope depth estimation using a dual-PTZ-camera system
(2009) IEEE Transactions on Image Processing, 18 (3), pp. 677-682.

Zhou, J., Li, S.
Global exponential stability of impulsive BAM neural networks with distributed delays
(2009) Neurocomputing, 72 (7-9), pp. 1688-1693.

Schnitzer, S.E., Weigert, A., Zhou, J., Brüne, B.
Hypoxia enhances sphingosine kinase 2 activity and provokes sphingosine-1-phosphate-mediated chemoresistance in A549 lung cancer cells
(2009) Molecular Cancer Research, 7 (3), pp. 393-401.

Zhou, J., Li, S., Yang, Z.
Global exponential stability of Hopfield neural networks with distributed delays
(2009) Applied Mathematical Modelling, 33 (3), pp. 1513-1520.

Li, J., He, Q., Hua, X., Zhou, J., Xu, H., Chen, J., Fu, C.
Climate and history explain the species richness peak at mid-elevation for Schizothorax fishes (Cypriniformes: Cyprinidae) distributed in the Tibetan Plateau and its adjacent regions
(2009) Global Ecology and Biogeography, 18 (2), pp. 264-272.

Martin, B., Golden, E., Carlson, O.D., Pistell, P., Zhou, J., Kim, W., Frank, B.P., Thomas, S., Chadwick, W.A., Greig, N.H., Bates, G.P., Sathasivam, K., Bernier, M., Maudsley, S., Mattson, M.P., Egan, J.M.
Exendin-4 improves glycemic control, ameliorates brain and pancreatic pathologies, and extends survival in a mouse model of huntington's disease
(2009) Diabetes, 58 (2), pp. 318-328.

Sun, Q., Wang, S., Zhou, J., Shen, J., Cheng, P., Xie, X., Wu, F.
Lake surface fluctuations since the late glaciation at Lake Daihai, North central China: A direct indicator of hydrological process response to East Asian monsoon climate
(2009) Quaternary International, 194 (1-2), pp. 45-54.

Rao, N.-Y., Hu, Z., Li, W.-F., Huang, J., Ma, Z.-L., Zhang, B., Su, F.-X., Zhou, J., Di, G.-H., Shen, K.-W., Wu, J., Lu, J.-S., Luo, J.-M., Yuan, W.-T., Shen, Z.-Z., Huang, W., Shao, Z.-M.
Models for predicting BRCA1 and BRCA2 mutations in Han Chinese familial breast and/or ovarian cancer patients
(2009) Breast Cancer Research and Treatment, 113 (3), pp. 467-477.

Song, E., Zhu, Y., Zhou, J., You, Z.
Minimum variance in biased estimation with singular fisher information matrix
(2009) IEEE Transactions on Signal Processing, 57 (1), pp. 376-381.

Zhou, J., Yang, Y.-B., Shen, J., Xie, L., He, Z.-H.
A kind of analog merging unit based on AC signals
(2009) Dianli Xitong Baohu yu Kongzhi/Power System Protection and Control, 37 (2), pp. 65-68.

Zhou, J., Su, D., Luo, J., Zhong, M.
Synthesis of aluminum borate nanorods by a low-heating-temperature solid-state precursor method
(2009) Materials Research Bulletin, 44 (1), pp. 224-226.

Zhou, J.-Y., Zhang, Y.-N., Zhang, J.-J., Lu, J.-L., Li, X.-F.
Approximate implementation of logarithm of matrix determinant in gaussian process regression and numerical experiments
(2009) Xitong Fangzhen Xuebao / Journal of System Simulation, 21 (1), pp. 174-179.

Zhou, J., Jiang, X., Cheng, L., Shang, L.
Coronary artery edge detection based on an orthogonal T-Snake model
(2009) Qinghua Daxue Xuebao/Journal of Tsinghua University, 49 (1), pp. 41-44.

Wang, A.-R., Zhang, C.-H., Zhang, L.-L., Lin, W.-W., Lin, D.-S., Lu, G.-D., Zhou, J., Wang, Z.-H.
Identification of Arabidopsis mutants with enhanced resistance to sclerotinia stem rot disease from an activation-tagged library
(2009) Journal of Phytopathology, 157 (1), pp. 63-69.

Zhang, Y.-B., Zhou, J., Wang, X.
A study on Chinese traditional opera
(2008) Proceedings of the 7th International Conference on Machine Learning and Cybernetics, ICMLC,

5, art. no. 4620824, pp. 2476-2480.

Chen, Y.J., Peng, B.G., Liang, L.J., Wang, J., Ou, J.R., Jian, Z.X., Huo, F., Zhou, J., Zhen, Z.J., Yu, X.F., Deng, M.H., Tan, Z.J., Huang, Z.H., Zhang, H.W.
A survey of bile duct injuries sustained during laparoscopic cholecystectomy
(2008) Zhonghua wai ke za zhi [Chinese journal of surgery], 46 (24), pp. 1892-1894.

Gu, Q., Zhou, J.
Belief propagation on riemannian manifold for stereo matching
(2008) Proceedings - International Conference on Image Processing, ICIP, art. no. 4712123, pp. 1788-1791.

Zhou, J.X., Zhou, J., Yang, H.M., Chen, M., Huang, F.
Characterization of two glutaminases from the filamentous cyanobacterium Anabaena sp. PCC 7120
(2008) FEMS Microbiology Letters, 289 (2), pp. 241-249.

Xiao, L., Tian, A., Li, W., Zhou, J.
Using a statistic model tocapture the association between timbre and perceived tempo
(2008) ISMIR 2008 - 9th International Conference on Music Information Retrieval, pp. 659-662.

Liang, X., Zhou, J., Yang, Y., Shen, J., Xie, L., Zhou, B.
Development of new kind of merging unit based on Iec61850
(2008) 2008 China International Conference on Electricity Distribution, CICED 2008, art. no. 5211703, .

Zhou, J., Zhou, J., Yang, H., Yan, C., Huang, F.
Characterization of a sodium-regulated glutaminase from cyanobacterium Synechocystis sp. PCC 6803
(2008) Science in China, Series C: Life Sciences, 51 (12), pp. 1066-1075.

Zhao, J., Zhou, J., An, Z.-G.
Study on the synthesis forming technology and effects on the die service life
(2008) Suxing Gongcheng Xuebao/Journal of Plasticity Engineering, 15 (6), pp. 162-165.

Su, H., Tang, L., Tretter, D., Zhou, J.
A practical and adaptive framework for super-resolution
(2008) Proceedings - International Conference on Image Processing, ICIP, art. no. 4711985, pp. 1236-1239.

Gu, Q., Zhou, J.
A similarity measure under Log-Euclidean metric for stereo matching

(2008) Proceedings - International Conference on Pattern Recognition, art. no. 4761347, .

Yang, C., Cao, Y., Nie, Z., Zhou, J., Wen, J.-R.
Closing the loop in webpage understanding
(2008) International Conference on Information and Knowledge Management, Proceedings, pp. 1397-1398.

Luo, Y., Zhu, Y., Luo, D., Zhou, J., Song, E., Wang, D.
Globally optimal multisensor distributed random parameter matrices kalman filtering fusion with applications
(2008) Sensors, 8 (12), pp. 8086-8103.

Wang, X., Yang, C., Zhou, J.
Spectral aggregation for clustering ensemble
(2008) Proceedings - International Conference on Pattern Recognition, art. no. 4761779, .

Qu, X., Zhou, J.
Multivariate archimedean copula model selection via l1-norm symmetric distribution
(2008) Proceedings of the IEEE International Conference on Automation and Logistics, ICAL 2008, art. no. 4636683, pp. 2956-2960.

Wu, Y., Yang, B., Zhou, J., Yang, M.
Application of V-shape binder surface to design of drawing die for auto cover panels
(2008) Zhongguo Jixie Gongcheng/China Mechanical Engineering, 19 (22), pp. 2693-2699.

Wan, D., Zhou, J.
Stereo vision using two PTZ cameras
(2008) Computer Vision and Image Understanding, 112 (2), pp. 184-194.

Li, D., Wang, Z., Zhou, J., Fang, J., Ni, J.
A note on chaotic synchronization of time-delay secure communication systems
(2008) Chaos, Solitons and Fractals, 38 (4), pp. 1217-1224.

Xiao, L., Zhou, J., Zhang, T.
Using DTW based unsupervised segmentation to improve the vocal part detection in pop music
(2008) 2008 IEEE International Conference on Multimedia and Expo, ICME 2008 - Proceedings, art. no. 4607654, pp. 1193-1196.