

Dr. Bo Yuan

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Research Interests

Data Mining, Reinforcement Learning and Evolutionary Computation

Education

Ph.D. , Computer Science The University of Queensland, Brisbane, Australia	10/2002 – 04/2006
M.Sc. , Computer Science The University of Queensland, Brisbane, Australia	03/2001 – 07/2002
B.E. , Computer Science Nanjing University of Science and Technology, Nanjing, P.R. China	09/1994 – 07/1998
Certificate , English Medium Instruction Hertford College, The University of Oxford, United Kingdom	07/2017 – 07/2017

Work Experience

Co-Founder Shenzhen Wisdom & Strategy Technology Co., Ltd., Shenzhen, P.R. China A K-12 AI education solution provider that designs innovative curriculum and training schemes focusing on information literacy and computational thinking	07/2021 –
Associate Professor Division of Informatics, Shenzhen International Graduate School, Tsinghua University, Shenzhen, P.R. China	12/2009 – 07/2021
Lecturer Division of Informatics, Graduate School at Shenzhen, Tsinghua University, Shenzhen, P.R. China	07/2007 – 12/2009
Research Officer School of Information Technology and Electrical Engineering, The University of Queensland, Brisbane, Australia	03/2006 – 04/2007
Visiting Fellow Centre for Artificial Intelligence, The University of Technology Sydney, Sydney, Australia	10/2018 –
Research Assistant Multimedia Lab, Department of Computer Science, Tsinghua University, Beijing, P.R. China	08/1998 – 03/1999

Administrative Positions

Tsinghua SIGS

- Deputy Director, Working Group on Online Education (2019 – 2020)
- Faculty Member, Advisory Committee for Graduate Studies (2015 – 2020)

- Member, Steering Committee for Teaching (2013 – 2020)
- Deputy Director, Office of Academic Affairs (2013 – 2020)
- Founding Director, Centre for Entrepreneurship Education (2014)

Awards & Highlights

Teaching

- 2nd Class Award for Education, Teaching and Research Excellence, Shenzhen Education Bureau (2021)
- Award for Online Teaching Excellence During the Pandemic, Tsinghua University (2020)
- MOOC Innovation Award for "Data Science Certificate Program", Tsinghua University (2019)
- MOOC Excellence Award for "Data Science: A New Way of Thinking", Tsinghua University (2019)
- 1st Class Award for Education & Teaching Achievement, Tsinghua University (2019)
- National-Level MOOC Certificate for "Data Mining: Theory and Algorithms" (2018)
- Outstanding Teacher of Shenzhen, Shenzhen Education Bureau (2018)
- Annual Teaching Excellence Award, Tsinghua University (2017)
- 1st Class Award for MOOC Operations in 2016 – 2017 Academic Year, XuetangX (2017)
- "Smart Teaching Star", Research Center for Online Education, Ministry of Education, P.R. China (2017)
- 2nd Class Award/Best Lecture Notes Award/Most Popular Teacher Award, The 10th Beijing Higher Education Young Faculty Teaching Competition, Beijing Municipal Education Commission (2017)
- Top 5%, Postgraduate Course Teaching Assessment, Tsinghua University (2012, 2014, 2016)
- 1st Class Award, The 7th Young Faculty Teaching Competition, Tsinghua University (2016)
- 2nd Class Award for Education & Teaching Achievement, Tsinghua University (2016)
- Young Faculty Award for Teaching Excellence, Tsinghua University (2015)

Research

- Best Paper Award, The 30th Australasian Joint Conference on Artificial Intelligence (2017)
- Best Paper Award, BDM Workshop at PAKDD'11 (2011)

Student Training

- Award for Master's Thesis Excellence, Tsinghua University (2015, 2017, 2018, 2020, 2021)
- Award for Outstanding Master's Graduate, Tsinghua University (2018, 2021)
- National Postgraduate Scholarship, Ministry of Education (2018)
- 1st Class Internship Scholarship, Graduate School at Shenzhen, Tsinghua University (2018)
- Top Class "RONG" Scholarship, Institute of Data Science, Tsinghua University (2017)
- 2nd Class Student Contribution Award for Laboratory Development, Tsinghua University (2017)
- The Fifth Place Team in PAKDD'09 Data Mining Competition (2009)

Scholarship & Grant

- Australian Postgraduate Award (2003 – 2006)
- Queensland Government Travel Grant for IEEE WCCI 2012 (2012)
- ACM SIGEVO Student Travel Grant (2005)
- IEEE Neural Networks Society Student Travel Grant (2002)

Miscellaneous

- Shenzhen Overseas High-Level Talents Certificate (2015)
- Shenzhen High-Level Professional Certificate (2009)
- Recipient of the B.E. degree at the age of 18 (1998)

Teaching

- Academic Writing in English and Conference Presentation
- Advanced Computing Techniques and Applications
- Big Data Science and Application Seminar Series
- Data Mining: Theory and Algorithms (MOOC)
- Data Science: A New Way of Thinking (MOOC)
- Data Visualization
- Postgraduate English
- Instructor, Online Data Science Certificate Program, Tsinghua University
- Instructor, GPU Education Center at Tsinghua University, NVIDIA

Professional Services

Membership

- Senior Member, IEEE (S'02 – M'07 – SM'20) & IEEE Computational Intelligence Society
- Managing Director, Technical Committee on Higher Education, Shenzhen Education Society
- Member, Emergent Technologies Technical Committee, IEEE Computational Intelligence Society
- Member, Chinese Association for Artificial Intelligence
- Member, Technical Committee on Visual Cognition & Computing, China Society of Image and Graphics

Journal Editorship

- Associate Editor, IEEE Access, 2018 – 2021

Journal Reviewer

- ACM Transactions on Mathematical Software
- Ad Hoc Networks
- Annals of Operations Research
- Engineering Optimization
- China Communications
- Computational Intelligence
- Connection Science
- Evolutionary Intelligence
- IEEE Access
- IEEE Computational Intelligence Magazine
- IEEE Internet of Things Journal
- IEEE Transactions on Communications
- IEEE Transactions on Evolutionary Computation
- IEEE Transactions on Industrial Informatics
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Wireless Communications
- Information Sciences
- International Journal of Environmental Research and Public Health
- International Journal of Systems Science

- Journal of Computer Science and Technology
- Journal of Parallel and Distributed Computing
- Knowledge-Based Systems
- Memetic Computing
- Neurocomputing
- Pattern Recognition
- Pattern Recognition Letters
- PLOS ONE
- Sensors

Conference Organizer

- Publicity Chair, International Conference on Service Science (2013)

Ph.D. Thesis Examiner

- Deakin University (2018), The University of Sydney (2009)
- National Ph.D. Thesis Random Inspection Program, Ministry of Education, P.R. China (2016)

Grant Reviewer

- National Natural Science Foundation of China
- Research Foundation for Returned Overseas Scholars, Ministry of Education, P.R. China

Invited Speaker

- Workshop on National Internet+ Innovation and Entrepreneurship Competition, Shenzhen (01/2021)
- 11th National Digital Campus Development and Innovation Summit, Shenzhen (10/2020)
- XuetaoX Distinguished Teacher Seminar Series, Online (06/2020)
- Sichuan Province High Quality Course Development Symposium, Chengdu (12/2019)
- 2019 Artificial Intelligence and Intelligent Robotics Symposium, Shenzhen (01/2019)
- Guangdong Higher Education Smarting Teaching Symposium, Guangzhou (11/2018)
- 5th Anniversary Symposium of XuetaoX, Beijing (10/2018)
- 2nd UNESCO International Forum for Online Engineering Education, Beijing (07/2018)
- 9th National Digital Campus Development and Innovation Summit, Shenzhen (05/2018)
- 7th National Symposium on Higher Education Computer Software Courses, Guangzhou (05/2017)
- 4th National Conference on MOOC and Higher Education Computing Courses, Xiamen (11/2016)
- 10th National Conference on Control Engineering Postgraduate Education, Xi'an (11/2016)
- 2nd China Quantitative Investment International Summit, Shenzhen (08/2012)

Instructor

- Workshop on Government Service Data Management in Guangdong Province, Guangzhou (12/2020)
- Workshop on the Development of Digital Government in Guangdong Province, Shenzhen (11/2020)
- Referee, Huawei ICT Competition 2019-2020 Global Final, Dongguan (11/2020)
- XuetaoX Summer School for Online Teaching of Postgraduate Courses, Online (08/2020)
- Tsinghua Global Summer School, Online (07/2020)
- Training Workshop on High Quality Course Development, Guangzhou (12/2019)
- UNESCO ICEE&IKCEST International Engineering Education Training Workshop, Beijing (07/2019)
- Blended Teaching Workshop for "Foundations of Online Education", Xining (06/2019)
- National Higher Education Blended Teaching Training Course, Guangzhou (03/2019)
- Blended Teaching Workshop for "Foundations of Online Education", Kunming (01/2019)

- National Higher Education Blended Teaching Training Course, Shenzhen (12/2018)
- 5th Smart Teaching Design and Rain Classroom Training Workshop, Shenzhen (11/2018)
- 4th Smart Teaching Design and Rain Classroom Training Workshop, Beijing (10/2018)

Media Appearance

- New Year Greetings for 2021, Firsthand Report, Shenzhen TV (01/01/2021)
- The Challenges of Online Education, 1919 Business News, Shenzhen TV (11/03/2019)
- Returned Overseas Scholars, Approaching Business and Politics, Phoenix TV (12/03/2017)

Supervision

Postdoc

- In Progress: Dr. Linqi Ye (2019)
- Completed: Dr. Jun Jiang (2020), Dr. Deshan Meng (2020)
Dr. Xuanbin Si (2017), Dr. Feng Xu (2017)

PhD Students

- In Progress: Mr. Bo Xia (2021), Miss Tiantian Zhang (2019), Mr. Zhuo Chen (2017)
- Awarded: Miss Xiaojuan Cheng (2019)

Master Students

- In Progress (13): Mr. Guozheng Ma, Miss Yifan Shi, Mr. Qin Zhang (2021)
Mr. Hongzhi Shang, Miss Yunjie Su, Mr. Yuxing Wang, Mr. Zhecheng Yuan (2020)
Miss Guoxin Shi, Mr. Yunhui Zeng (2019)
Mr. Chengqian Gao, Mr. Xianzhuang Li, Mr. Yang Liu, Mr. Shilei Jiang (2019)
- Awarded (44): Miss Wenhui Liao, Mr. Wantong Lu, Miss Yiyang Zhang, **Mr. Li Zhong**[#] (2021)
Mr. Chenhui Li, **Miss Haimei Zhao**[‡] (2020)
Miss Yanbin Niu, Miss Jiamei Yang, **Mr. Yantao Yu**^{*}, Mr. Kaiyu Zhou (2020)
Mr. Hao Yu, Mr. Dong Wang (2019)
Mr. Daochang Chen, Mr. Chenjue Wang, Mr. Zhen Wang (2019)
Mr. Yuanlong Qin, Mr. Tao Meng, Mr. Yinghao Ren, **Miss Tiantian Zhang**[#] (2018)
Miss Xin Li, **Miss Qiuhui Tong**^{*}, Mr. Jian Xu (2017)
Mr. Yunchang He, Mr. Pengtao Huang, Miss Yuxin Zhang, Miss Na Zhao (2016)
Mr. Yan Ji, **Mr. Fei Wang**^{*}, Mr. Shiquan Yang (2015)
Mr. Jianqiang Dong, Mr. Chunyang Wang, Mr. Zhibo Yang, Miss Yanmin Zhu (2014)
Mr. Hequn Liu, Mr. Tianle Ma (2013)
Mr. Wei Chen, Mr. Ze Huang, Mr. Cheng Li, Ms. Xiaoli Ma (2012)
Miss Xiuyun Qu, Miss Xinzhu Yang (Co-Advisor, 2009)
Mr. Bohan Liu, Mr. Jian Wang, Mr. Tao Zhang (Co-Advisor, 2008)

^{*} Award for Master's Thesis Excellence, Tsinghua University

[#] Award for Outstanding Master's Graduate, Tsinghua University

[‡] National Postgraduate Scholarship, Ministry of Education

Research Funding

Chief Investigator

- "Online Performance Augmentation and Multi-Task Transfer Learning for Defect Detection", Science and Technology Innovation 2030 – "Next Generation AI" Major Project, National Key R&D Program of China, No. 2020AAA0108303, RMB 2.84M (Sub-Project), 2020 – 2023.
- "The Management and Practice of Live Online Teaching for Graduate Students", Graduate Education Innovation Grants, Tsinghua University, No. 202007J049, RMB 30K, 2020 – 2021.
- "Visual Analysis of Learning Behavior Data Based on Smart Teaching Techniques", Education Science Research Institute of Shenzhen, No. YBZZ18006, RMB 20K, 2018 – 2020.
- "Discipline Oriented Postgraduate English Education", Graduate Education Innovation Grants, Tsinghua University, RMB 30K, 2018 – 2019.
- "Experimental and Online Course Platforms for Big Data Master's Program", Graduate Education Innovation Grants, Tsinghua University, RMB 30K, 2016 – 2017.
- "User Behavior Analysis for Online Education Platforms", Research Center for Online Education, Ministry of Education, P.R. China, No. 2016YB111, RMB 60K, 2016 – 2017.
- "Ubiquitous Robot: Technical Framework and Conceptual Design", National High-Tech Research and Development Program (863 Program), No. 2015AAXX46201, RMB 900K, 2015 – 2016.
- "GPU-Accelerated Data Mining Platform", Academic Partnership Program, NVIDIA, 2011 – 2012.
- "Ensemble Algorithms Based on Dynamic Model Credibility", National Natural Science Foundation of China, No. 60905030, RMB 180K, 2010 – 2012.
- "Parameter Tuning Methods for Evolutionary Algorithms", Research Foundation for Returned Overseas Scholars, Ministry of Education, P.R. China, RMB 25K, 2009 – 2011.
- "Evolutionary Algorithms Based on Statistical Models", Research Seed Grants Program, Graduate School at Shenzhen, Tsinghua University, RMB 50K, 2008 – 2010.

Co-Investigator

- "Ensemble Intelligence for Real-Time Decision Making", Tsinghua University, RMB 15M, 2018 – 2021.
- "Environment Perception and Object Recognition of Service Robots", National Natural Science Foundation of China, No. U1713214, RMB 3M, 2018 – 2021.
- "Vision-Based Robot Simultaneous Localization and Mapping", Shenzhen Science and Technology Innovation Commission, No. JCYJ20170412170602564, RMB 3M, 2017 – 2020.
- "Cyberinfrastructure Techniques for the Big Data Research Environment of Ocean Observatory", Interdisciplinary Research and Innovation Program, Graduate School at Shenzhen, Tsinghua University, RMB 350K, 2014 – 2016.
- "Key Laboratory for Space Robotics and Telescience", Shenzhen Science and Technology Innovation Commission, RMB 3M, 2014 – 2016.
- "Engineering Laboratory for Intelligent Semantic Mining Technologies", Shenzhen Development and Reform Commission, RMB 5M, 2012 – 2015.

Publications

Book Chapter

1. **Yuan, B.** and Gallagher, M. (2007) "Combining Meta-EAs and Racing for Difficult EA Parameter Tuning Tasks". In Lobo et al. eds. *Parameter Setting in Evolutionary Algorithms, Studies in Computational Intelligence*, vol. 54, Springer, pp. 121 – 142.

Journal

2. Chen, D.C., Hu, W.Z., **Yuan, B.**, Zhang, R. and Wang J.Q. (2021) "Next-Item Recommendation with Deep Adaptable Co-Embedding Neural Networks". *IEEE Signal Processing Letters*, vol. (28), IEEE, pp. 1220 – 1224.
3. Liao, W.H., Zhang, Q., **Yuan, B.**, Zhang, G.Q. and Lu, J. (2021) "Heterogeneous Multi-Domain Recommender System through Adversarial Learning". *IEEE Transactions on Neural Networks and Learning Systems*, minor revision, IEEE.
4. Zhang, Y.Y., Liu, F., Fang, Z., **Yuan, B.**, Zhang, G.Q. and Lu, J. (2021) "Learning from a Complementary-Label Source Domain: Theory and Algorithms". *IEEE Transactions on Neural Networks and Learning Systems*, IEEE.
5. Zhong, L., Fang, Z., Liu, F., **Yuan, B.**, Zhang, G.Q. and Lu, J. (2021) "Bridging the Theoretical Bound and Deep Algorithms for Open Set Domain Adaptation". *IEEE Transactions on Neural Networks and Learning Systems*, minor revision, IEEE.
6. Ye, L.Q., Tian, B.L., Liu, H.D., Zong, Q., Liang, B. and **Yuan, B.** (2021) "Anti-Windup Robust Backstepping Control for an Underactuated Reusable Launch Vehicle". *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, IEEE.
7. **Yuan, B.**, Song, X.G., Li, Q., Peng, Y.Y. and Song, S.Y. (2020) "Live Online Teaching for Graduate Students: Theory and Practice". *Modern Educational Technology*, vol. 30(6), pp. 114 – 119.
8. Cheng, X.J., Lu, J.W., **Yuan, B.** and Zhou, J. (2020) "Identity-Preserving Face Hallucination via Deep Reinforcement Learning", *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 30(12), IEEE, pp. 4796 – 4809.
9. **Yuan, B.**, Song, X.G., Li, Q., Peng, Y.Y. and Song, S.Y. (2019) "A Pilot Study on Discipline Oriented General Graduate English Education". *Tsinghua Journal of Education*, vol. 40(sup.), pp. 38 – 40.
10. Cheng, X.J., Lu, J.W., **Yuan, B.** and Zhou, J. (2019) "Face Segmentor-Enhanced Deep Feature Learning for Face Recognition", *IEEE Transactions on Biometrics, Behavior, and Identity Science*, vol. 1(4), IEEE, pp. 223 – 237.
11. Xu, F., Tan, J.B., Wang, Y., Wang, X.Q., Liang, B. and **Yuan, B.** (2019) "Robust Fault Detection and Set-Theoretic UIO for Discrete-Time LPV Systems with State and Output Equations Scheduled by Inexact Scheduling Variables". *IEEE Transactions on Automatic Control*, vol. 64(12), IEEE, pp. 4982 – 4997.
12. **Yuan, B.**, Zhao, H.M., Zhang, C.P. and Li, X.M. (2018) "Visual Analysis of Postgraduate English Learners Based on Rain Classroom". *Modern Educational Technology*, vol. 28(5), pp. 68 – 74.
13. Meng, T. and **Yuan, B.** (2018) "Parallel Edge-Based Visual Assessment of Cluster Tendency on GPU". *International Journal of Data Science and Analytics*, vol. 6(4), Springer, pp. 287 – 295.
14. Zhang, T.T. and **Yuan, B.** (2018) "Density-Based Multiscale Analysis for Clustering in Strong Noise Settings with Varying Densities", *IEEE Access*, vol. 6, IEEE, pp. 25861 – 25873.
15. Tong, Q.H., Li, X. and **Yuan, B.** (2018) "Efficient Distributed Clustering Using Boundary Information". *Neurocomputing*, vol. 275, Elsevier, pp. 2355 – 2366.
16. Cheng, X.J., Lu, J.W., Feng, J.J., **Yuan, B.** and Zhou, J. (2018) "Scene Recognition with Objectness". *Pattern Recognition*, vol. 74, Elsevier, pp. 474 – 487.

17. Xu, F., Tan, J.B., Wang, X.Q., Puig, V., Liang, B. and **Yuan, B.** (2018) "Mixed Active/Passive Robust Fault Detection and Isolation Using Set-Theoretic Unknown Input Observers". *IEEE Transactions on Automation Science and Engineering*, vol. 15(2), IEEE, pp. 863 – 871.
18. Huang, S.P., Meng, D.S., She, Y., Wang, X.Q., Liang, B. and **Yuan, B.** (2018) "Statics of Continuum Space Manipulators with Nonconstant Curvature via Pseudorigid-Body 3R Model", *IEEE Access*, vol. 6, IEEE, pp. 70854 – 70865.
19. Meng, D.S., Lu, W.N., Xu, W.F., She, Y., Wang, X.Q., Liang, B. and **Yuan, B.** (2018) "Vibration Suppression Control of Free-Floating Space Robots with Flexible Appendages for Autonomous Target Capturing". *Acta Astronautica*, vol. 151, Elsevier, pp. 904 – 918.
20. Li, X.M., Zhang, C.P. and **Yuan, B.** (2017) "An Experimental Study on the Application of Rain Classroom — Elucidating the Fundamental Rules of the Connectivism Learning Theory". *Modern Educational Technology*, vol. 27(5), pp. 40 – 45.
21. Tong, Q.H., Li, X. and **Yuan, B.** (2017) "A Highly Scalable Clustering Scheme Using Boundary Information". *Pattern Recognition Letters*, vol. 89, Elsevier, pp. 1 – 7.
22. Si, X.B., Feng, J.J., **Yuan, B.** and Zhou, J. (2017) "Dense Registration of Fingerprints". *Pattern Recognition*, vol. 63, Elsevier, pp. 87 – 101.
23. Chen, B.C., Mak, A., Lin, F.Q., **Yuan, B.**, Liu, W.H. and Wang, H.Y. (2017) "Implementation of Radio Frequency Identification Middleware with Database". *Transactions of the Institute of Measurement and Control*, vol. 39(4), SAGE, pp. 455 – 465.
24. Xu, F., Tan, J.B., Wang, X.Q., Puig, V., Liang, B., **Yuan, B.** and Liu, H.D. (2017) "Generalized Set-Theoretic Unknown Input Observer for LPV Systems with Application to State Estimation and Robust Fault Detection". *International Journal of Robust and Nonlinear Control*, vol. 27, Wiley, pp. 3812 – 3832.
25. Wang, L.T., Hu, X.L., **Yuan, B.** and Lu, J.F. (2015) "Active Learning via Query Synthesis and Nearest Neighbour Search". *Neurocomputing*, vol. 147, Elsevier, pp. 426 – 434.
26. **Yuan, B.** (2014) "On the Gap between Graduate Course Study and Research Ability Development". *Academic Degrees & Graduate Education*, vol. 2014(4), pp. 25 – 28.
27. Cui, K., Lyu, Q., Xu, N., Liu, Q., Zhang, J., Xing, W., Bai, L., Liao, M., He, J., **Yuan, B.**, Chen, D., Xie, W. and Zhang, Y. (2014) "Characterization of the microRNA Pool and the Factors Affecting Its Regulatory Potential". *Integrative Biology*, vol. 6(12), Royal Society of Chemistry, pp. 1141 – 1152.
28. **Yuan, B.** and Liu, W.H. (2012) "Measure Oriented Training: A Targeted Approach to Imbalanced Classification Problems". *Frontiers of Computer Science*, vol. 6(5), Springer, pp. 489 – 497.
29. Shang, S., **Yuan, B.**, Deng, K., Xie, K.X., Zheng, K. and Zhou, X.F. (2012) "PNN Query Processing on Compressed Trajectories". *GeoInformatica*, vol. 16(3), Springer, pp. 467 – 496.
30. Tu, Q., Lu, J.F., **Yuan, B.**, Tang, J.B. and Yang, J.Y. (2012) "Density-Based Hierarchical Clustering for Streaming Data". *Pattern Recognition Letters*, vol. 33(5), Elsevier, pp. 641 – 645.
31. Lin, F.Q., Chen, B.C., **Yuan, B.**, Liu, W.H., Li, X.Y., Mak, A. and Wang H.Y. (2010) "Composition and Implementation of RFID Lightweight Middleware". *Computer Engineering*, vol. 36(17), pp. 77 – 80.
32. **Yuan, B.**, Orlowska, M. and Sadiq, S. (2008) "Extending a Class of Continuous Estimation of Distribution Algorithms to Dynamic Problems". *Optimization Letters*, vol. 2(3), Springer, pp. 433 – 443.

33. **Yuan, B.**, Orlowska, M. and Sadiq, S. (2007) "On the Optimal Robot Routing Problem in Wireless Sensor Networks". *IEEE Transactions on Knowledge and Data Engineering*, vol. 19(9), IEEE, pp. 1252 – 1261.
34. Gallagher, M. and **Yuan, B.** (2006) "A General-Purpose Tunable Landscape Generator". *IEEE Transactions on Evolutionary Computation*, vol. 10(5), IEEE, pp. 590 – 603.
35. Lu, J.F., **Yuan, B.** and Yang, J.Y. (1999) "A Genetic Design for Feedforward Neural Network". *Journal of Nanjing University of Science and Technology*, vol. 23(6), pp. 486 – 489.

Conference

36. Chen, S.J., Guo, Z.H. and **Yuan, B.** (2021) "An Adaptive Iterative Inpainting Method with More Information Exploration". In *Proceedings of the 29th ACM International Conference on Multimedia*, ACM, Chengdu, P.R. China.
37. Zhong, L., Fang, Z., Liu, F., Lu, J., **Yuan, B.** and Zhang, G.Q. (2021) "How Does the Combined Risk Affect the Performance of Unsupervised Domain Adaptation Approaches?" In *Proceedings of the 35th AAAI Conference on Artificial Intelligence*, AAAI, pp. 11079 – 11087, Online.
38. Chen, Z., Wang, C.Y., **Yuan, B.** and Tao, D.C. (2020) "PuppeteerGAN: Arbitrary Portrait Animation with Semantic-Aware Appearance Transformation". In *Proceedings of the 2020 IEEE Conference on Computer Vision and Pattern Recognition*, IEEE, pp. 13518 – 13527, Seattle, USA.
39. Zhao, H.M., Bian, W., **Yuan, B.** and Tao, D.C. (2020) "Collaborative Learning of Depth Estimation, Visual Odometry and Camera Relocalization from Monocular Videos". In *Proceedings of the 29th International Joint Conference on Artificial Intelligence*, IJCAI, pp. 488 – 494, Yokohama, Japan.
40. Zhang, Y.Y., Liu, F., Fang, Z., **Yuan, B.**, Zhang, G.Q. and Lu, J. (2020) "Clarinet: A One-Step Approach Towards Budget-Friendly Unsupervised Domain Adaptation". In *Proceedings of the 29th International Joint Conference on Artificial Intelligence*, IJCAI, pp. 2526 – 2532, Yokohama, Japan.
41. Ye, L.Q., Liu, H.D., Wang, X.Q., Liang, B. and **Yuan, B.** (2020) "Multi-Task Control for a Quadruped Robot with Changeable Leg Configuration". In *Proceedings of the 2020 IEEE International Conference on Intelligent Robots and Systems*, IEEE, pp. 3944 – 3950, Las Vegas, USA.
42. Lu, W.T., Yu, Y.T., Chang, Y.Z., Wang, Z., Li, C.H. and **Yuan, B.** (2020) "A Dual Input-Aware Factorization Machine for CTR Prediction". In *Proceedings of the 29th International Joint Conference on Artificial Intelligence*, IJCAI, pp. 3139 – 3145, Yokohama, Japan.
43. Jiang, J., Liu, H.D., **Yuan, B.**, Wang, X.Q. and Liang, B. (2019) "A New Concept of UAV Recovering System". In *Proceedings of the 12th International Conference on Intelligent Robotics and Applications*, LNAI 11742, Springer, pp. 327 – 338, Shenyang, P.R. China.
44. Jiang, J., Liu, H.D., **Yuan, B.**, Liang, L.F. and Liang, B. (2019) "Design and Integration of a Reconfiguration Robot". In *Proceedings of the 12th International Conference on Intelligent Robotics and Applications*, LNAI 11742, Springer, pp. 339 – 350, Shenyang, P.R. China.
45. Yu, Y.T., Wang, Z., and **Yuan, B.** (2019) "An Input-Aware Factorization Machine for Sparse Prediction". In *Proceedings of the 28th International Joint Conference on Artificial Intelligence*, IJCAI, pp. 1466 – 1472, Macau, P.R. China.
46. Chen, D.C., Zhang, R., Qi, J. and **Yuan, B.** (2019) "Sequence-Aware Recommendation with Long-Term and Short-Term Attention Memory Networks". In *Proceedings of the 20th International Conference on Mobile Data Management – Workshop Papers*, IEEE, pp. 437 – 442, Hong Kong, P.R. China.

47. Wang, Z., Zhang, R., Qi, J. and **Yuan, B.** (2019) "DBSVEC: Density-Based Clustering Using Support Vector Expansion". In *Proceedings of the 35th International Conference on Data Engineering*, IEEE, pp. 280 – 291, Macau, P.R. China.
48. Ye, L.Q., Liu, H.D., Wang, X.Q., **Yuan, B.** and Liang, B. (2019) "Task-Oriented Hierarchical Control for a Quadruped Robot". In *Proceedings of the 2019 IEEE International Conference on Robotics and Biomimetics*, IEEE, pp. 2146-2151, Dali, P.R. China.
49. Zhao, H.M., Chen, Z., Tong, Q.H. and **Yuan, B.** (2018) "Towards a Compact and Effective Representation for Datasets with Inhomogeneous Clusters". In *Proceedings of the 25th International Conference on Neural Information Processing*, LNCS 11304, Springer, pp. 157 – 169, Siem Reap, Cambodia.
50. **Yuan, B.** and Zhang, T.T. (2017) "Towards Solving TSPN with Arbitrary Neighborhoods: A Hybrid Solution". In *Proceedings of the 2017 Australasian Conference on Artificial Life and Computational Intelligence*, LNAI 10142, Springer, pp. 204 – 215, Geelong, Australia.
51. Meng, T. and **Yuan, B.** (2017) "Parallel Visual Assessment of Cluster Tendency on GPU". In *Proceedings of the 21st Pacific-Asia Conference on Knowledge Discovery and Data Mining*, LNAI 10235, Springer, pp. 429 – 440, Jeju, South Korea. ***Long Presentation Paper**
52. Qin, Y.L. and **Yuan, B.** (2017) "ACO-iRBA: A Hybrid Approach to TSPN with Overlapping Neighborhoods". In *Proceedings of the 11th International Conference on Simulated Evolution and Learning*, LNCS 10593, Springer, pp. 87 – 96, Shenzhen, P.R. China.
53. Zhang, T.T. and **Yuan, B.** (2017) "Density-Based Multiscale Analysis for Clustering in Strong Noise Settings". In *Proceedings of the 30th Australasian Joint Conference on Artificial Intelligence*, LNAI 10400, Springer, pp. 27 – 38, Melbourne, Australia. ***Best Paper Award**
54. Zhang, T.T. and **Yuan, B.** (2016) "Visualizing MOOC User Behaviors: A Case Study on XuetangX". In *Proceedings of the 17th International Conference on Intelligent Data Engineering and Automated Learning*, LNCS 9937, Springer, pp. 89 – 98, Yangzhou, P.R. China.
55. Zhang, T.T., **Yuan, B.**, Meng, T., Ren, Y.H., Liu, H.D. and Wang, X.Q. (2016) "Ubiquitous Robot: A New Paradigm for Intelligence". In *Proceedings of the 17th International Conference on Intelligent Data Engineering and Automated Learning*, LNCS 9937, Springer, pp. 202 – 211, Yangzhou, P.R. China.
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