潘正祥

潘正祥，男，台籍，博士，硕士研究生导师，IET Fellow，2018 年福建省杰出人民教师。研究方向为人工智能、无线传感器网络、数字水印及信息隐藏，共发表论文近 700 篇，其中近 300 篇被 SCI 检索，被引用次数超过 1 万次，H-index 为 48。担任 Soft Computing、Information Sciences 等 SCI/EI 期刊客座主编，电子学报编委。

一、人物履历

学习经历：

    1984.09-1986.06　台湾科技大学　电子工程专业　学士

    1986.09-1988.06　台湾交通大学　电信工程专业　硕士

    1993.10-1996.06　爱丁堡大学　　电子工程专业　博士

二、研究方向：

人工智能、无线传感器网络、数字水印及信息隐藏。

三、近五年发表论文：

期刊论文：

[1]**Pan Jeng-Shyang**, Lee Chiou-Yng, Sghaier Anissa, Zeghid Medien, Xie Jiafeng, "Novel systolization of subquadratic space complexity multipliers based on toeplitz matrix--vector product approach", IEEE Transactions on Very Large Scale Integration (VLSI) Systems, vol.27, pp.1614-1622, 2019. (ESI 高被引/热点文章)

[2]Nguyen Trong-The, **Pan Jeng-Shyang**, Dao Thi-Kien, "An improved flower pollination algorithm for optimizing layouts of nodes in wireless sensor network", IEEE Access, vol.7, pp.75985--75998, 2019. (ESI 高被引)

[3]Meng Zhenyu, **Pan Jeng-Shyang**, Tseng Kuo-Kun, "PaDE: An enhanced Differential Evolution algorithm with novel control parameter adaptation schemes for numerical optimization", Knowledge-Based Systems, vol.168, pp.80--99, 2019. (ESI 高被引)

[4]**Pan Jeng-Shyang,** Kong Lingping, Sung Tien-Wen, Tsai Pei-Wei and, "α-Fraction first strategy for hierarchical model in wireless sensor networks", Journal of Internet Technology, vol.19, pp.1717--1726, 2019. (ESI 高被引)

[5]Hu Pei, **Pan Jeng-Shyang**, Chu Shu-Chuan, "Improved Binary Grey Wolf

Optimizer and Its application for feature selection", Knowledge-Based Systems, vol.195, pp.105746, 2020.

[6]Wang Xiaopeng, **Pan Jeng-Shyang**, Chu Shu-Chuan, "A parallel multi-verse optimizer for application in multilevel image segmentation", IEEE Access, vol.8, pp.32018--32030, 2020.

[7]**Pan Jeng-Shyang**, Liu Nengxian, Chu Shu-Chuan, "A hybrid differential evolution algorithm and its application in unmanned combat aerial vehicle path planning", IEEE Access, vol.8, pp.17691--17712, 2020.

[8]Du Zhi-Gang, **Pan Jeng-Shyang**, Chu Shu-Chuan and Luo, Han-Jiang and Hu, Pei, "Quasi-Affine Transformation Evolutionary Algorithm With Communication Schemes for Application of RSSI in Wireless Sensor Networks", IEEE Access, vol.8, pp.8583--8594, 2020.

[9]Meng Zhenyu, **Pan Jeng-Shyang**, Zheng Wei-min, "Differential evolution utilizing a handful top superior individuals with bionic bi-population structure for the enhancement of optimization performance", Enterprise Information Systems, vol.14, no.2, pp.221--242, 2020.

[10]Liang Lei, **Pan Jeng-Shyang**, Zhuang Yongjun, "A Fast Specific Object Recognition Algorithm in a Cluttered Scene", Journal of Internet Technology, vol.20, pp.2023--2031, 2019.

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[12]**Pan Jeng-Shyang**, Wang Xiaopeng, Feng Qingxiang, Chu Shu-Chuan, "A Kernel-Based Probabilistic Collaborative Representation for Face Recognition", IEEE Access, vol.8, pp.37946--37957, 2019.

[13]Meng Zhenyu, **Pan Jeng-Shyang**, "QUasi-Affine TRansformation Evolution with External ARchive (QUATRE-EAR): an enhanced structure for differential evolution", Knowledge-Based Systems, vol.155, pp.35--53, 2019.

[14]Meng Zhenyu, **Pan Jeng-Shyang**, "A Compact Co-Evolutionary Algorithm for sensor ontology meta-matching", Knowledge-Based Systems, vol.56. no. 2, pp.335--353, 2018.

[15]**Pan Jeng-Shyang**, Kong Lingping, Sung Tien-Wen, Tsai Pei-Wei, "A clustering scheme for wireless sensor networks based on genetic algorithm and

dominating set", Journal of Internet Technology, vol.19. no. 4, pp.1111--1118, 2018.

[16]Kong Lingping, **Pan Jeng-Shyang**, Tsai Pei-Wei, Sung Tien-Wen, "An energy-aware routing protocol for wireless sensor network based on genetic algorithm", Telecommunication Systems, vol.67. no. 3, pp.451--463, 2018.

[17]Meng Zhenyu, **Pan Jeng-Shyang**, Kong Lingping, "Parameters with adaptive learning mechanism (PALM) for the enhancement of differential evolution", Knowledge-Based Systems, vol.141, pp.91--112, 2018.

[18]Dao Thi-Kien, Pan Tien-Szu, **Pan Jeng-Shyang**, "Parallel bat algorithm for optimizing makespan in job shop scheduling problems", Journal of Intelligent Manufacturing, vol.29, no.2, pp.451--462, 2018.

[19]**Pan, Jeng-Shyang,** Yang, Chun-Sheng, Lee, Chiou-Yng, "Decomposition of symmetric matrix–vector product over GF (2 m)", Electronics Letters, vol.53, no.24, pp.1568--1570, 2017.

[20]Dao Thi-Kien, **Pan Jeng-Shyang**, Pan Tien-Szu, Nguyen Trong-The, "Optimal path planning for motion robots based on bees pollen optimization algorithm", Journal of Intelligent Manufacturing, vol.1, no.4, pp.351--366, 2017.

[21]Xue Xingsi, **Pan Jeng-Shyang**, "A segment-based approach for large-scale ontology matching", Knowledge-Based Systems, vol.52, no.2, pp.467--484, 2017.

[22]**Pan Jeng-Shyang**, Meng Zhenyu, Chu Shu-Chuan, Xu Hua-Rong, "Monkey King Evolution: an enhanced ebb-tide-fish algorithm for global optimization and its application in vehicle navigation under wireless sensor network environment", Telecommunication Systems, vol.65, no.3, pp.351--364, 2017.

[23]**Pan Jeng-Shyang**, Lin Jerry Chun-Wei, Yang Lu, Fournier-Viger Philippe, Hong Tzung-Pei, "Efficiently mining of skyline frequent-utility patterns", Intelligent Data Analysis, vol.21, no.6, pp.1407--1423, 2017.

[24]Weng Shaowei, **Pan Jeng-Shyang**, Zhou Lizhi, "Reversible data hiding based on the local smoothness estimator and optional embedding strategy in four prediction modes", Multimedia Tools and Applications, vol.76, no.11, pp.13173--13195, 2017.

四、科研项目

（1）基于非线性核稀疏表示的医学图像特征提取方法，国家自然科学基金，2019.01-2023.12，项目编号：61872085（项目负责人）

（2）基于核学习的大型复杂数据挖掘理论与方法，国家自然科学基金，

2014.01-2017.12，项目编号：61371178（项目负责人）

（3）深圳市云计算公共服务平台（检验检测平台），国家发改委专项基金，2011.01-2015.12，项目编号：国家发改委高技[2011]2448号（课题负责人）

（4）深圳市海外高层次人才创新创业专项基金项目——孔雀计划，深圳市财政，2012.01-2014.12，项目编号：KQC201109020055A（项目负责人）

（5）面向交通轨迹的时空大数据挖掘理论及其应用技术研究，教育部科技发展中心，2017.07-2018.06（项目负责人）

五、发明专利

（1）一种基于人脸识别的汽车开门方法（专利号：ZL201410370100.3），2018.02授权

（2）一种用于椭圆密码器的乘法器处理单元及乘法器（专利号：ZL201410414896.8），2018.09授权

（3）一种基于掌纹认证的汽车启动方法（专利号：ZL201410372727.2），2016.08授权

（4）一种抢劫监控报警方法及系统（专利号：）ZL201110189235.6，2015.02授权

（5）快速运算多位元串联脉动双基底二进制有限（专利号：ZL201310115401.7），2016.08授权

（6）一种可重构的快速并行乘法器（专利号：ZL201410152508.3），2017.06授权

（7）一种基于简易心电采集和匹配的疲劳检测方法（专利号：ZL201410371285.X），2016.09授权

六、科技奖励

（1）视觉媒体内容保护的理论与方法，中华人民共和国教育部自然科学二等奖，2016.02（2/8）

（2）智慧型车用吸顶灯，瑞士日内瓦发明金展，国际学术奖，2019.04（1/8）

（3）具主动警示功能的车窗击破器，瑞士日内瓦发明银展，国际学术奖，2019.04（1/8）

七、联系方式

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