

2018年8月12日 星期日

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梁军利

2018-06-08 14:23

招生信息

欢迎有志于信号处理、图像处理、智能信息处理研究,数学好、编程能力强、热爱科研的学生加盟。

博士生、硕士生招生专业:电子科学与技术--电路与系统、航空电子综合技术;电子与通信。

联系Email:liangjunli@nwpu.edu.cn.



教育教学

本科生课程:《信号与系统II》、《自动控制原理II》;

研究生课程:《信号与图像处理建模、求解及应用》。

工作经历

2012.7-2013.7 美国佛罗里达大学,博士后,合作导师: Jian Li, Petre Stoica教授 (均为IEEE Fellow);

2014.7-2014.8 香港城市大学,高级访问学者,合作导师: Hing Cheung So (IEEE Fellow), Chi Sing Leung 教授。

教育经历

2007年在中科院获得博士学位;

2001、2004年在西安电子科技大学获得学士、硕士学位;

荣誉获奖

陕西省青年科技新星;

西北工业大学翱翔青年学者;

西北工业大学吴亚军青年教师奖;

陕西省高等学校科学技术奖二等奖:用于传感器阵列目标定位的先进理论与方法研究。

ICIRA2012国际会议最佳论文奖;

中科学声学所07年度论文发表一等奖。

科学研究

研究方向:

[1]雷达信号处理、阵列信号处理、统计信号处理、分布式网络信号处理等,包括MIMO/认知雷达波形设计、目标探测/定位/跟踪/成像/识别等;

[2]红外图像处理、无人机视频图像处理、SAR 图像处理、工业图像处理及其应用。

[3]智能信息处理。

主持国家自然科学基金(3项)、霍英东教育基金会青年基金、陕西省青年科技新星配套项目、空装预研项目、军委科技委项目等。至今作为第1作者在IEEE Trans. Signal Processing、IEEE Trans. Image Processing、IEEE Trans. Neural Network and Learning Systems、IEEE Trans. Antennas and Propagation、IEEE Journal of Selected Topics in Signal Processing、IEEE Trans. Aerospace and Electronic Systems等IEEE 汇刊发表学术论文17篇,其中SCI 1-2区15篇。

学术成果

公开或授权发明专利12项。

出版科学出版社专著1部《图像曲线拟合理论及其应用》。

指导博士生发表论文:

- [27]Yang Jing, Junli Liang. Designing Unimodular Sequence with Minimum PSL of Local Ambiguity Function, IEEE Trans. Aerospace and Electronic Systems;
- [26] Guoyang Yu, Junli Liang. Sequence Set Design with Accurately Controlled Correlation Properties. IEEE Trans. Aerospace and Electronic Systems;
- [25]Yang Jing, Junli Liang. Spectrum-contained unimodular sequence design without spectral level mask, IEEE Signal Processing Letters, 2018, 25(7): pp.1004-1008.

作为第一作者发表论文:

- [24] Lagrange programming neural network approach for target localization in distributed MIMO radar. IEEE Transactions on Signal Processing, 2016,64(6):1574-1585.
- [23] Unimodular Sequence Design Based on Alternating Direction Method of Multipliers. IEEE Transactions on Signal Processing, 2016,64(20):5367-5381.
- [22] Passive localization of mixed near-field and far-field sources using two-stage MUSIC algorithm. IEEE Transactions on Signal Processing. 2010, 58(1): 108-120.
- [21]Waveform design with unit modulus and spectral shape constraints via Lagrange programming neural network. IEEE Journal of Selected Topics in Signal Processing. 2015,9(8): 1377-1386.
- [20]Joint elevation and azimuth direction finding using L-shaped array. IEEE Transactions on Antennas and Propagation. 2010,58(6): 2136-2141.
- [19]Sparse array beam pattern synthesis via alternating direction method of multipliers. IEEE Transactions on Antennas and Propagation, 2018, 66(5):2333-2345.
- [18] Decentralized dimensionality reduction for distributed tensor data across sensor network. IEEE Transactions on Neural Networks and Learning Systems. 2017,27(11): 2174-2186.
- [17]Robust ellipse fitting via half-quadratic and semidefinite relaxation optimization. IEEE Transactions on Image Processing. 2015,24(11): 4276-4286.
- [16]Image fusion using higher order singular value decomposition. IEEE Transactions on Image Processing. 2012, 21(5): 2898-2909.
- [15]Distributed dictionary learning for sparse representation in sensor networks IEEE Transactions on Image Processing. 2014,23(6): 2528-2541.
- [14]Robust ellipse fitting based on sparse combination of data points. IEEE Transactions on Image Processing. 2013, 22(6): 2207-2218.
- [13]On designing the transmission and reception of multistatic continuous active sonar systems. IEEE Transactions on Aerospace and Electronic Systems. 2014,50(1): 285-299.
- [12] Shape fitting for the shape control system of silicon single crystal growth. IEEE Transactions on Industrial Informatics. 2015, 11(2): 363-374.
- [11]Passive localization of near-field sources using cumulant. IEEE Sensors Journal. 2009, 9(8): 953-960.
- [10]Joint azimuth and elevation direction finding using cumulant. IEEE Sensors Journal. 2009,9(4): 390-398.
- [9]Phase Retrieval via the Alternating Direction Method of Multiplier, IEEE Signal Processing Letters. 2018, 25(1): 5-9.
- [8]Phase-only pattern synthesis for linear antenna arrays. IEEE Antennas and Wireless Propagation Letters,2017,16:3232-3235.
- [7]Robust MIMO radar target localization via nonconvex optimization, Elsevier: Signal Processing. 2016,122,33-38.
- [6] L-shaped array-based elevation and azimuth direction finding in the presence of mutual coupling. Elsevier: Signal Processing. 2011, 91(5): 1319- 1328.
- [5] A computationally efficient algorithm for joint range-DOA- frequency estimation of near-field sources. Elsevier: Digital Signal Processing. 2009, 19(4): 596-611.
- [4] Recursive least squares-like algorithms for the adaptive second-order lattice notch filter. Elsevier: Digital Signal Processing. 2008,18(3):291-306.
- [3] Joint estimation of source number and DOA using simulated annealing algorithm. Elsevier: Digital Signal Processing. 2010, 20(3): 887-899.
- [2]Circular/hyperbolic/elliptic localization via Euclidean norm elimination. Elsevier: Signal Processing,2018, 148: 102-113.
- [1]On optimizations with magnitude constraints on frequency or angular responses. Elsevier: Signal Processing, 2018, 145:214-224.

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