

张会生

教授

博士生导师

hszhang@dlmu.edu.cn

教育背景	大连理工大学理学博士(2009) 厦门大学理学硕士(2003) 曲阜师范大学理学学士(2000)
	智能计算
研究领域	信号处理 优化方法
代表性成果	 论文类: (1) Online gradient method with smoothing ℓ0 regularization for feedforward neural networks, <i>Neurocomputing</i>, 224, 1-8, 2017. (SCI) (2) Is a complex-valued stepsize advantageous in complex-valued gradient learning algorithms?, <i>IEEE transactions on neural networks and learning systems</i> 27(12), 2730-2735, 2016. (SCI) (3) Batch gradient training method with smoothing L0 regularization for feedforward neural networks, <i>Neural Computing and Applications</i>, 26(2), 383-390, 2-15. (SCI) (4) Deterministic convergence of chaos injection-based gradient method for training feedforward neural networks, <i>Cognitive neurodynamics</i>, 9(3), 331-340, 2015. (SCI) (5) Convergence analysis of an augmented algorithm for fully complex-valued neural networks, <i>Neural Networks</i>, 69, 44-50, 2015. (SCI) (6) Boundedness and convergence of split-complex back-propagation algorithm with momentum and penalty,

	 Neural processing letters, 39(3), 297-307, 2014. (SCI) (7) Convergence analysis of fully complex backpropagation algorithm based on Wirtinger calculus, Cognitive neurodynamics, 8(3), 261-266, 2014. (SCI) (8) Boundedness and convergence of batch back-propagation algorithm with penalty for feedforward neural networks, Neurocomputing, 89 141-146, 2012. (SCI) (9) Convergence of Split-Complex Backpropagation Algorithm with a Momentum, Neural Network World, 21(1), 75-90, 2011.
	(SCI) (10) Convergence analysis of three classes of split-complex gradient algorithms for complex-valued recurrent neural networks, <i>Neural computation</i> , 22(10), 2655-2677, 2010. (SCI) (11) Boundedness and convergence of online gradient method with penalty for feedforward neural networks, <i>IEEE</i> <i>Transactions on Neural Networks</i> , 20(6), 1050-1054, 2009. (SCI)
	(12) Boundedness and convergence of online gradient method with penalty for linear output feedforward neural networks, <i>Neural processing letters</i> , 29(3), 205-212, 2009. (SCI)
代表性项目	 (1) 国家自然科学基金面上项目,61671099,基于信号统计特征及复学习率的复值神经网络学习算法研究,2017/01-2020/12,在研,主持。 (2) 国家自然科学基金青年项目,61101228,基于广义梯度算子的复数值及四元数值神经网络的学习算法研究,2012/01-2014/12,已结题,主持。 (3) 中国博士后科学基金面上项目,2012M520623,复值神经网络的随机型复梯度学习算法研究,2012/11-2015/6,已结题,主持。 (4) 辽宁省自然科学基金,2015020011,面向大数据集的深度复值神经网络的稀疏化构造与学习算法设计,2015/07-2017/06,已结题,主持。
荣誉奖励	(1) 辽宁省自然科学奖,柔性认知计算模式与方法研究,三等,2016-Z-3-08-R05,排名第五。

等,2016-Z-3-08-R05,排名第五。 辽宁省自然科学学术成果奖,Is a complex-valued stepsize advantageous in complex-valued gradient learning

```
algorithms?,二等, 175202001444502, 排名第一
```

(1) 国家自然科学基金评审专家

社会兼职 《IEEE TNNLS》、《Neural Computation》等多个国际期刊 的审稿人

其他

