

# 王金亮 副教授

计算机科学与软件学院网络工程系

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## Contact

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## Education

2010.09-2014.01 博士 北京航空航天大学 控制理论与控制工程专业

## Work Experience

2016.07-2016.08 Texas A & M University at Qatar Postdoctoral Research Associate

2015.06-2015.07 Texas A & M University at Qatar Postdoctoral Research Associate

2014.07-2014.08 Texas A & M University at Qatar Program Aid

2014.01-今 天津工业大学计算机科学与软件学院网络工程系

## Research interests

- ⇒ 复杂网络的动力学行为分析与控制
- ⇒ 耦合反应扩散神经网络的同步与无源性
- ⇒ 食物网的建模,分析与控制
- ⇒ 多智能体系统的一致性与编队控制
- ⇒ 无线传感网络在分布参数系统中的应用

## Honours and Awards

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- 2017.01 天津市“131”创新型人才培养工程第二层次人选
- 2015.07 北京航空航天大学优秀博士学位论文
- 2015.05 北京航空航天大学研究生发表优秀学术论文奖
- 2014.10 天津市“131”创新型人才培养工程第三层次人选
- 2014.05 北京航空航天大学研究生发表优秀学术论文奖
- 2013.05 北京航空航天大学研究生发表优秀学术论文奖
- 2012.12 教育部博士研究生学术新人奖
- 2012.12 博士研究生国家奖学金
- 2012.12 北京航空航天大学优秀研究生
- 2012.06 重庆市优秀硕士学位论文
- 2012.06 北京航空航天大学“研究生十佳”提名奖
- 2012.05 北京航空航天大学研究生发表优秀学术论文奖
- 2012.03 北京航空航天大学“博士创新基金”
- 2011.10 航天科技集团公司CASC公益奖学金

## Teaching

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2017.02-2017.06	运筹学（研究生课程）	32学时
2016.03-2016.07	运筹学（研究生课程）	32学时
2015.09-2015.12	下一代网络技术（本科生课程）	30学时
2015.03-2015.07	运筹学（研究生课程）	32学时

## Publications

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近年来，在复杂动态网络的动力学行为分析与控制方面开展了深入、细致的研究工作，并取得了一些具有国际影响的研究成果。目前以第一作者身份在一些国际知名和重要的**SCI**期刊上发表学术论文**20**余篇，其中**ESI-Hot paper 1**篇，**ESI-Highly cited paper 2**篇，**SCI**严格他引**200**余次。具体如下：

### ESI论文：

[1] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, Passivity-based synchronization of a class of complex dynamical networks with time-varying delay, **Automatica**, 56, 105-112, 2015 (**ESI-Hot paper**, **ESI-Highly cited paper**)

[2] **Jin-Liang Wang**, Huai-Ning Wu, Local and global exponential output synchronization of complex delayed dynamical networks, **Nonlinear Dynamics**, 67(1), 497-504, 2012 (**ESI-Highly cited paper**)

### 部分代表性论文：

[1] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Passivity and output synchronization of complex dynamical networks with fixed and adaptive coupling strength, **IEEE Transactions on Neural Networks and Learning Systems**, Article in Press, doi: 10.1109/TNNLS.2016.2627083, 2016

[2] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Passivity analysis of coupled reaction-diffusion neural networks with Dirichlet boundary conditions, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, Article in Press, doi: 10.1109/TSMC.2016.2622363, 2016

[3] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Passivity of directed and undirected complex dynamical networks with adaptive coupling weights, **IEEE Transactions on Neural Networks and Learning Systems**, Article in Press, doi: 10.1109/TNNLS.2016.2558502, 2016

[4] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Pinning control strategies for synchronization of linearly coupled neural networks with reaction-diffusion terms, **IEEE Transactions on Neural Networks and Learning Systems**, 27(4), 749-761, 2016

[5] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Pinning control for synchronization of coupled reaction-diffusion neural networks with directed topologies, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, 46(8), 1109-1120, 2016

[6] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, Passivity-based synchronization of a class of complex dynamical networks with time-varying delay, **Automatica**, 56, 105-112, 2015

[7] **Jin-Liang Wang**, Huai-Ning Wu, Tingwen Huang, et al., Passivity and synchronization of linearly coupled reaction-diffusion neural networks with adaptive coupling, **IEEE Transactions on Cybernetics**, 45(9), 1942-1952, 2015

[8] **Jin-Liang Wang**, Huai-Ning Wu, Synchronization and adaptive control of an array of linearly coupled reaction-diffusion neural networks with hybrid coupling, **IEEE Transactions on Cybernetics**, 44(8), 1350-1361, 2014

[9] **Jin-Liang Wang**, Huai-Ning Wu, Lei Guo, Novel adaptive strategies for synchronization of linearly coupled neural networks with reaction-diffusion terms, **IEEE Transactions on Neural Networks and Learning Systems**, 25(2), 429-440, 2014

[10] **Jin-Liang Wang**, Huai-Ning Wu, Lei Guo, Passivity and stability analysis of reaction-diffusion neural networks with Dirichlet boundary conditions, **IEEE Transactions on Neural Networks**, 22(12), 2105-2116, 2011

## Research Funds

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2015.04-2018.03 复杂网络的无源性分析、控制与应用(主持)

天津自然科学基金青年基金

2015.01-2017.12 耦合反应扩散神经网络的同步分析与控制(主持) 国家自然科学基金青年基金

## Professional Activities

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1. 2016 **Neurocomputing** **Managing Guest Editor**

2. 2015.06-今 **Neurocomputing** **Associate Editor**

3. 担任**IEEE Transactions on Neural Networks and Learning Systems**、**IEEE Transactions on Cybernetics**、**IEEE Transactions on Industrial Electronics**、**IEEE Transactions on Systems, Man and Cybernetics: Systems**、**IEEE Transactions on Circuits and Systems II: Express Briefs**等20余个SCI期刊的审稿人