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主 要 研 究 领 域

- 智能计算及其应用 生物启发式计算
- 物联网技术与应用 电力系统优化 产品优化设计
- 物流与供应链管理 生产计划与控制
- 复杂系统建模与计算 生物信息学
- 印制电子 3D 打印技术

教育经历及工作经历

- 2014.11— 天津工业大学计算机科学与软件学院教授、博导
- 2009.01—2014.10 中国科学院沈阳自动化研究所历任助理研究员、副研究员、硕士生导师、青年博导
- 2005.09—2008.12 中国科学院沈阳自动化研究所机械电子工程专业攻读博士
- 2002.09—2005.07 燕山大学计算机软件与理论专业攻读硕士
- 1998.09—2002.07 燕山大学机械工程及其自动化专业攻读学士

主持及参与项目

- 2012 年 1 月，基于生物行为的 RFID 系统优化模型与算法研究，国家自然科学基金青年项目（61105067），**项目主持人** （**在研**）
- 2012 年 1 月，基于智能终端的互动社区服务平台与应用示范，国家科技支撑计划项目（2012BAH15F05），**项目主持人** （**在研**）
- 2012 年 1 月，中国科学院创新促进会人才基金（Y2A1062701），**项目主持人** （**在研**）
- 2012 年 6 月，乐从家具商贸产业全程电子商务服务平台建设，佛山市院市合作项目

（2012HY100643），**项目主持人 （在研）**

- ✧ 2012 年 6 月，基于物联网的家具商贸综合服务平台研发与应用示范，佛山市院市合作项目（2012HY100523），**项目主持人 （在研）**
- ✧ 2011 年 4 月，面向中小企业的云制造服务平台研发及应用，国家 863 计划课题（2011AA040605），**项目主持人（结题）**
- ✧ 2009 年 3 月，基于 RFID 的南通蕾丝妮针织服饰有限公司生产管理系统，企业委托课题（Y2N715），**项目主持人（结题）**
- ✧ 2012 年 1 月，基于细菌行为模式的复杂系统建模与优化方法研究，国家自然科学基金面上项目（61174164)，**第二负责人（在研）**
- ✧ 2011 年 10 月，面向乐从家具商贸的物联网服务平台建设，佛山市科技发展专项资金（2011AA100553），**核心参与人员（在研）**
- ✧ 2011 年 6 月，乐从家具物联网服务平台建设，佛山市院市合作项目（2011BY100383），**核心参与人员（结题）**
- ✧ 2009 年 6 月，RFID 标签动态信息实时管理软件的研究与开发 (国家 863 项目，2008AA04A105)，**核心参与人员（结题）**
- ✧ 2007 年 12 月，面向 RFID 的信息集成管理技术研究与开发，国家 863 计划课题（2006AA04A117），**核心参与人员（结题）**
- ✧ 2006 年 9 月，复杂生产制造过程实时、智能控制与优化理论和方法研究，973 国家重大基础研究项目（2002CB312200），**核心参与人员（结题）**

& 发 表 论 文

专著：

[1] 生物启发计算—个体 群体 群落演化模型与方法. 朱云龙, **陈瀚宁**, 清华大学出版社, 2013 年（ISBN 978-7-302-31908-5）.

学术论文：

[1] **Chen, H.N.** (陈瀚宁), Zhu Y.L. et al., Bacterial colony foraging for multi-mode product colour planning, International Journal of Bio-Inspired Computation, Vol. 7, No. 4, 2015. (Accepted, **SCI IF=3.969)**

[2] Ma, L.B., Zhu, Y.L., Hu, K.Y., **Chen H.N.** (陈瀚宁), A hybrid artificial bee colony optimizer by combining with life-cycle, Powell's search and crossover, Applied Mathematics and Computation, 2015, 252: 133-154, (**SCI IF=1.551)**.

[3] Jing S.K, Ma L.B., Zhu Y.L., **Chen H.N.** (陈瀚宁, 通信作者), A restructured artificial bee colony optimizer combining life-cycle, local search and crossover operations for droplet property prediction in printable electronics fabrication, Journal of Intelligent Manufacturing, 27 May 2015, pp 1-26, **(SCI, IF = 1.731)**.

[4] He M.W. , Sun L.L., Hu K.Y., Zhu Y.L., **Chen H.N.** (陈瀚宁, 通信作者), Analysis of DoD inkjet printhead performance for printable electronics fabrication using dynamic lumped element modeling and swarm intelligence based optimal prediction, Journal Central South University. (2015) 22: 3925−3934, **(SCI, IF = 0.551)**.

[5] **Chen, H.N.** (陈瀚宁), Zhu, Y.L. et al. Bacterial Colony Foraging Algorithm: Combining Chemotaxis, Cell-to-cell Communication, and Self-adaptive Strategy, Information Sciences, 2014,273: 73-10, (**SCI, IF = 3.242**).

[6] **Chen H.N.** (陈瀚宁), Zhu Y.L. et al., Multi-Hive Bee Foraging Algorithm for Multi-objective Optimal Power Flow Considering the Cost, Loss, and Emission, International Journal of Electrical Power & Energy Systems, 2014, 60: 203-220, (**SCI, IF = 3.432**).

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[13] Liu W., Niu B., Zhu Y.L., **Chen H.N.** (陈瀚宁, 通讯作者) Artificial Bee Colony Algorithm for Reader Collision Problem in RFID Network. *Journal of Computational and Theoretical Nanoscience*. 2013, 10(12). (**SCI IF= 0.912**)

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multi-swarm optimizer. *Journal of Network and Computer Applications*. 2011, 34(3): 888-901. (**SCI**: 745BB, **IF=1.467**) (**引用 15 次，**Google Scholar)

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Knowledge Engineering, ISKE'08. 2008, 1026-1031. (**EI**: 20090911922469)

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杂志及会议审稿

- ✧ IEEE Transactions on Industrial Informatics 常年评审专家
- ✧ IEEE Transactions on Evolutionary Computation 常年评审专家
- ✧ IEEE Transactions on Magnetics 常年评审专家
- ✧ IEEE Transactions on Systems, Man, and Cybernetics 常年评审专家
- ✧ Soft Computing 常年评审专家
- ✧ Applied Mathematics and Computation 常年评审专家
- ✧ Swarm Intelligence 常年评审专家
- ✧ Neurocomputing 常年评审专家
- ✧ ISA Transactions 常年评审专家
- ✧ Journal of the Franklin Institute 常年评审专家
- ✧ Journal of Network and Computer Applications 常年评审专家
- ✧ 控制理论与应用 常年评审专家
- ✧ 信息与控制 常年评审专家
- ✧ 系统工程理论与实践 常年评审专家

✧ 系统工程与电子技术 常年评审专家

✧ 系统工程学报 常年评审专家

& 获奖及荣誉情况

✧ 2013 年 4 月获辽宁省“**省级科学技术研究成果**”

✧ 2013 年 1 月获中科院沈阳自动化研究所“**创新 2020 冠名奖-前沿研究奖**”

✧ 2012 年 1 月入选“**中国科学院青年创新促进会**”

✧ 2010 年 1 月获中科院沈阳自动化研究所“**知识创新工程冠名奖**”

✧ 2009 年 10 月获“**辽宁省自然科学学术成果奖一等奖**”

✧ 2009 年 8 月获中国科学院沈阳自动化所“**优秀博士论文**”

✧ 2005 年 7 月获燕山大学研究生院“**优秀毕业生**”

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✧ 2003 年 7 月获燕山大学研究生院“**优秀学生**”