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姚新



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主要研究方向:

演化计算、机器学习

姚新, 男, 1962年11月生, IEEE Fellow, 现任英国伯明翰大学计算机学院教授, 英国伯明翰大学计算智能与应用研发中心主任, 并兼任中国科学技术大学教育部长江学者讲座教授、“大师讲席II”教授、软件学院首席教授、自然计算与应用实验室主任。目前还担任IEEE 计算智能学会副主席 (Vice President for Publication) 和执委会委员; 2005年至2006年担任IEEE Frank Rosenblatt 奖评审委员会委员, 2008 and 2009年再次被选为该委员会委员; 2008 and 2009年担任IEEE 计算智能学会IEEE Fellow 评选委员会主席。在演化计算、神经计算、机器学习、数据挖掘等多个方面, 先后获得了Royal Society (UK)、EPSRC、Honda Research Institute Europe GmbH、European Commission、Marconi Communications, BT, Thales 等科研机构和企业研究院的50余项资助, 累计发表国际杂志论文148篇, 国际会议论文约190篇, 出版专著或论文集24本。曾应邀在欧美国家、日本和新加坡等地举办的各种高水平学术会议上作了约60场特邀报告, 40次担任计算智能相关国际会议的主席, 曾获得2001年IEEE Donald G. Fink 最佳论文奖等多项荣誉, 并曾连续6年(2003-2008)担任IEEE Transactions on Evolutionary Computation 主编、还是Knowledge and Information Systems (Springer)、Journal of Computational Intelligence and Applications (World Scientific) 等12个杂志的副主编或编委, “自然计算的发展”世界科学系列丛书编辑等。

国际学术会议任职:

- 2009-2010年: Vice President for Publications and Executive Committee member of the IEEE Computational Intelligence Society.
- 2010: Member of the Conference Committee of the IEEE Computational Intelligence Society.
- 2008-2009年: Chair of the Fellows Evaluation Committee of the IEEE Computational Intelligence Society.
- 2005年至2006年, 2008-2010年: Member of the IEEE Frank Rosenblatt Award Committee. This is an IEEE level committee.
- 2001年至2003年: Chair of the IEEE Computational Intelligence Society Technical Committee on Evolutionary Computation.
- 2000年至2001年: President of the Evolutionary Programming Society.
- 2001年至今: Member of the PPSN Steering Committee.

获奖情况

- 2003年至今: IEEE Computational Intelligence Society Distinguished Lecturer.
- 2008年: Best PhD Student Paper at the 1st International Workshop on Search-Based Software Testing, 9-11 April 2008, Lillehammer, Norway:
Authors: Andrea Arcuri (student), Per Kristian Lehre (research fellow) and Xin Yao (supervisor).
Title: Theoretical Runtime Analyses of Search Algorithms on the Test Data Generation for the Triangle Classification Problem.
- 2005: Best Student Paper at the 2005 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, San Diego, California, USA, 14-15 November 2005:
Authors: K. Tang (student), P. N. Suganthan (supervisor) and X. Yao (co-supervisor).
Title: Feature selection for microarray data using least squares SVM and particle swarm optimization.
- 2001年: The 2001 IEEE Donald G. Fink Prize Paper Award for the paper entitled: “Evolving artificial neural networks,” Proceedings of the IEEE, 87(9):1423-1447, September 1999.
- 1997年: First Prize of the 1997 IEEE ACT Section Undergraduate Student Paper Contest:
Authors: J. Leeming (student) and X. Yao (supervisor).
Title: Terrain traversal by genetic algorithms.
- 1997年: Third Prize of the 1997 IEEE ACT Section Postgraduate Student Paper Contest:
Authors: Y. Liu (student) and X. Yao (supervisor).
Title: Towards Designing Neural Network Ensembles by Evolution.
- 1996年: Best Student Paper Award (First Prize) at the 1996 IEEE International Conference on Evolutionary Computation (ICEC' 96), Nagoya, Japan:

师资队伍

院士

陈国良 院士 李国杰 院士

大师讲席

姚新 邵中 乔春明

教授

安虹 陈恩红 陈华平 陈小平
陈意云 冯新宇 顾乃杰 华蓓
黄刘生 蒋凡 李京 唐珂
王煦法 熊焰 许胤龙 杨寿保
岳丽华 赵保华 周学海

副教授

陈凯明 董兰芳 郭宇 韩文廷
何克东 黄章进 黄巍 吉建民
金培权 李金龙 李曦 刘贵全
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王行甫 吴俊敏 邢凯 徐林莉
徐云 曾凡平 张信明 张昱
郑浩然 郑启龙

讲师

----讲师(含支撑岗位人员)名单----

博士后

-----博士后-----

学术活动

更多>>

- 北京大学林宙辰教授访问我院并做学术报告
题目: A Geometric Method for Optimal Design of Color Filter Arrays
时间: 11月20日下午3点
地点: 计算机学院6楼学术报告厅
- 美国伊利诺理工大学李向阳教授访问我院并做学术报告

题目: Large Scale Wireless Networking Systems:Theory,Experiences,and Lessons

时间: 10月30日下午2:30

地点: 计算机学院6楼学术报告厅

香港中文大学于旭教授访问我院并做学术报告

题目: Large Graph Query and Mining

时间: 10月13日下午3点

地点: 计算机学院6楼学术报告厅

Authors: P. J. Darwen (student) and X. Yao (supervisor).

Title: Automatic modularization by speciation.

8. 1995年: Best Student Paper Award (First Prize) at the 1995 IEEE International Conference on Evolutionary Computation (ICEC' 95), Perth, Australia:

Authors: P. J. Darwen (student) and X. Yao (supervisor).

Title: A dilemma for fitness sharing with a scaling function.

9. 1989年: 中科院院长奖

主要论著

01. H. Chen, P. Tino and X. Yao, "Probabilistic Classification Vector Machines," IEEE Transactions on Neural Networks, 20(6):901-914, June 2009.
02. S. Y. Chong, P. Tino and X. Yao, "Measuring Generalization Performance in Co-evolutionary Learning," IEEE Transactions on Evolutionary Computation, 12(4):479-505, August 2008.
03. S. Y. Chong and X. Yao, "Behavioral Diversity, Choices, and Noise in the Iterated Prisoner's Dilemma," IEEE Transactions on Evolutionary Computation, 9(6):540-551, December 2005.
04. J. He and X. Yao, "From an Individual to a Population: An Analysis of the First Hitting Time of Population-Based Evolutionary Algorithms," IEEE Transactions on Evolutionary Computation, 6(5):495-511, October 2002.
05. J. He and X. Yao, "Drift Analysis and Average Time Complexity of Evolutionary Algorithms," Artificial Intelligence, 127(1):57-85, March 2001.
06. Y. Liu, X. Yao and T. Higuchi, "Evolutionary Ensembles with Negative Correlation Learning," IEEE Transactions on Evolutionary Computation, 4(4):380-387, November 2000.
07. T. P. Runarsson and X. Yao, "Stochastic Ranking for Constrained Evolutionary Optimization," IEEE Transactions on Evolutionary Computation, 4(3):284-294, September 2000.
08. X. Yao, Y. Liu and G. Lin, "Evolutionary programming made faster," IEEE Transactions on Evolutionary Computation, 3(2):82-102, July 1999.
09. X. Yao, "Following the path of evolvable hardware," Communications of the ACM, 42(4):47-49, April 1999.
10. X. Yao, "Evolving artificial neural networks," Proceedings of the IEEE, 87(9):1423-1447, September 1999.



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