



### 徐道临

个人情况

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目前从事的研究领域及主要研究方向

机械振动与控制、非线性动力学、计算力学

主要学习工作经历

徐道临教授于2009年10月回国任职湖南大学机械与运载工程学院,任教授(博士生导师)。获得湖南大学重点学科建设基金支持,领导一个研究组开展研究与教学工作。作为研究项目负责人,目前正在承担机械系统隔振方面科研项目。1992年获中英友好奖学金由国家教委公派留学英国,1996年6月获得伦敦大学工学博士。1996年9月在新加坡国立大学计算力学中心任高级研究员。1998年7月在新加坡高性能计算研究院担任研究部门经理。1999年8月至2009年10月期间在新加坡南洋理工大学从事教学与科研,任副教授。出国前,在大道理工大学力学系从事教学与科研工作,任讲师(毕业留校)。

主要兼职

- 2002年-2008年 新加坡计算力学学会 副会长
- 2002年-至今 香港城市大学混沌控制与同步研究中心 海外特邀会员
- 2005年-2008年 大道理工大学 "海天学者"特聘教授
- 2005年-2008年 湖南大学 特聘教授
- 2009年-至今 湖南大学深海装备研究中心 主任
- 2010年-至今 湖南大学机械与运载学院学术委员会 副主任

获奖情况

- (1) 获中英友好奖学金,由国家教委公派赴英国留学,1992年-1996年。
- (2) 获国际IEEE最佳论文奖。4th International Symposium on Communication Systems, Networks & Digital Signal Processing, 2004年。

主要学术贡献

在国际非线性动力学学术领域,徐道临教授开拓了Chaos Projective Synchronization新的研究方向。自开创性论文(D. Xu, "Control of Projective Synchronization in Chaotic Systems", Physical Review E 63, (2001), pp. 27201-27204)从理论上证实这种同步化现象具有不可预测性后,提出了同步化控制的概念。为了解决这种物理现象的产生条件,带领博士研究团队用了几年时间做了一系列的基础理论性探索。完成了从三维到无穷维,从连续到离散系统的同步化生成条件。在此理论基础之上,展开了投射混沌同步化控制和混沌保密通讯应用研究并获得国际奖项。主要研究成果发表在美国物理学会的《物理评论》(Physical Review E),《混沌》(CHAOS),英国皇家学会期刊《数学物理及工程科学》(PROCEEDINGS OF THE ROYAL SOCIETY A - MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES),英国物理学报《Physics Letters A》,德国的《混沌,孤立子和分形》(CHAOS SOLITONS & FRACTALS)等著名国际期刊。这些研究工作获得了国际学界高度关注。近年来在Projective Synchronization研究主题上,早期工作被各国学者大量引用,每年他引次数愈百。多篇论文被国际著名学者引用。

国际学术期刊论文审稿人

- IEEE Transactions on Circuits and Systems I
- IEEE Transactions on Circuits and Systems II
- Journal of Economic Dynamics and control
- International Journal of Systems and Science

#### 热点导航

+实验室版面费报销流程(NEW)

+机电学会"春晖计划"

#### 相关链接

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#### 专利

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#### 学术文章发表:

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