



数学与计算机科学学院/软件学院  
College of Mathematics and Computer Science/College Of Software

教师登录 | English

搜索



首页 学院概况 新闻中心 党建工作 学科建设 人才培养 科研工作 师资队伍 学生工作 教工之家 招生信息 校友会 ESI专栏



■ 陈和柏

首页 > 师资信息 > 陈和柏

个人简介

## 个人简介

**基本信息****职称**

副教授

**职务****主讲课程****研究方向**

微分方程与动力系统

**办公室****电子邮件**

陈和柏博士,副教授,福州大学旗山学者。现从事微分方程与动力系统的教学和研究。于2010年6月与2013年6月分别获得四川大学数学基地班专业学士学位与基础数学硕士学位;于2017年6月获得西南交通大学一般力学与力学基础专业博士学位。在科研上,应邀赴英国帝国理工学院和诺丁汉大学等国内外大学进行学术访问。主要从事关于光滑及非光滑微分方程的定性理论与分岔理论的研究。

博士学位论文获得了西南交通大学优秀博士学位论文培育项目资助,并被评为西南交通大学优秀博士学位论文。近年来,在美国《J. Differential Equations》、《Physica D》、《J. Math. Anal. Appl.》和英国《Nonlinearity》《J. Phys. A: Math. Theo.》等国际重要学术期刊上发表一作SCI学术论文二十多篇。

## 科研项目

关于Lienard系统的全局分岔与Hilbert第16问题,国家自然科学青年基金,项目金额:26万,项目编号:11801079, 2019.01-2021.12.

光滑及非光滑系统的全局研究,校人才基金,项目金额:25万,项目编号:XRC-17038, 2017.01-2020.12.

## 部分发表SCI收录论文

- [1] H. Chen, X. Chen, Dynamical analysis of a cubic Lienard system with global parameters, Nonlinearity, 28 (2015): 3535-3562.
- [2] H. Chen, X. Chen, Dynamical analysis of a cubic Lienard system with global parameters: (II), Nonlinearity, 29 (2016): 1798-1826.
- [3] H. Chen, J. Xie, The number of limit cycles of the FitzHugh nerve system, Quart. Appl. Math., 73 (2015): 365-378.
- [4] H. Chen, X. Li, Global phase portraits of memristor oscillators, Internat. J. Bifur. Chaos 24 (2014): 1450152.
- [5] H. Chen, Global analysis on the discontinuous limit case of a smooth oscillator, Internat. J. Bifur. Chaos 26 (2016) 1650061.
- [6] H. Chen, Global bifurcation for a class of Filippov system with symmetry, Qual. Theory Dyn. Syst. 15 (2016): 349-365.
- [7] H. Chen, J. Xie, Harmonic and subharmonic solutions of the SD oscillator, Nonlinear Dyn. 84 (2016): 2477-2486.
- [8] H. Chen, L. Zou, Global study of Rayleigh-Duffing oscillators, Journal of Physics A: Mathematical and Theoretical 49 (2016): 165202.

**联系电话**

- [9] D. Li, **H. Chen**, J. Xie, Statistical properties of the universal limit map of grazing bifurcations, *Journal of Physics A: Mathematical and Theoretical* 49 (2016): 355102.
- [10] **H. Chen**, Global dynamics of memristor oscillators, *Internat. J. Bifur. Chaos* 26 (2016) 1650198.
- [11] **H. Chen**, X. Chen, A proof of Wang–Kooij’s conjectures for a cubic Liénard system with a cusp, *Journal of Mathematical Analysis and Applications*, 445 (2017): 884-897.
- [12] **H. Chen**, X. Chen, J. Xie, Global phase portraits of a degenerate Bogdanov-Takens system with symmetry, *Discrete and Continuous Dynamical Systems-Series B*, 22 (2017): 1273-1293.
- [13] **H. Chen**, D. Li, J. Xie, Y. Yue, Limit cycles in planar continuous piecewise linear systems, *Communications in Nonlinear Science and Numerical Simulation*, 47 (2017): 438-454.
- [14] **H. Chen**, Z. Cao, D. Li, J. Xie, Global analysis on a discontinuous dynamical system, *International Journal of Bifurcation and Chaos*, 27 (2017): 1750078.
- [15] D. Li, **H. Chen**, J. Xie, J. Zhang, Sinai-Ruelle-Bowen measure for normal form map of grazing bifurcation of impact oscillators, *Journal of Physics A: Mathematical and Theoretical*, 50 (2017): 385103.
- [16] **H. Chen**, J. Llibre, Y. Tang, Global study of SD oscillator, *Nonlinear Dynamics*, 91(2018): 1755-1777.
- [17] **H. Chen**, X. Chen, Global phase portraits of a degenerate Bogdanov-Takens system with symmetry: (II), *Discrete and Continuous Dynamical Systems-Series B*, 23(2018): 4141-4170.
- [18] **H. Chen**, D. Huang, Y. Jian, The saddle case of Rayleigh-Duffing oscillators, *Nonlinear Dynamics*, 93(2018): 2283-2300.
- [19] **H. Chen**, S. Duan, Y. Tang, J. Xie, Global dynamics of a mechanical system with dry friction, *Journal of Differential Equations*, 265(2018): 5490-5519.
- [20] **H. Chen**, J. Duan, Bounded and unbounded solutions of a discontinuous oscillator at resonance, *International Journal of Non-Linear Mechanics*, 105(2018): 146-151.
- [21] **H. Chen**, L. Zou, How to control the immigration of infectious individuals for a region? *Nonlinear Analysis Series B: Real World Applications*, 45(2019): 491-505.
- [22] **H. Chen**, Y. Tang, At most two limit cycles in a piecewise linear differential system with three zones and asymmetry, *Physica D*, to appear.
- [23] **H. Chen**, M. Han, Y. Xia, Limit cycles of a Lienard system with symmetry allowing for discontinuity, *Journal of Mathematical Analysis and Applications*, 468 (2018): 799-816.



学院地址：福州市闽侯县学园路2号福州大学数学与计算机科学学院

版权声明：© 2017 - 2020 福州大学数学与计算机科学学院. 版权所有. 保留所有权利