

# 黄世沛教师简介

## 一、 个人基本情况：

姓 名： 黄世沛

性 别： 男

出生年月： 1989 年 9 月

民 族： 汉族

职称职务： 讲师

政治面貌： 中共党员

最后学历： 博士研究生

最高学位： 工学博士

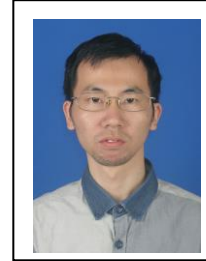
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## 二、 从事研究的专业领域及主要研究方向

研究的专业领域： 控制理论与控制工程

主要研究方向： 切换系统，非线性系统，鲁棒控制，有限时间控

制

### 三、 主要工作经历

2017/01-至今 温州大学 电气工程及其自动化

2011/9-2017/1, 南京理工大学, 控制科学与工程, 博士

2007/9-2011/6, 浙江海洋学院, 电气工程及其自动化, 学士

### 四、 近年来主持的主要教学科研项目

1. 国家自然科学基金青年基金项目, 上三角切换非线性系统的有限时间控制研究, 61703310, 21 万元, 2018.01-2020.12。
2. 温州大学教学改革研究一般项目, “雨课堂”在《数字电路与逻辑设计》中的应用。

### 五、 近年完成的主要教学科研成果目录 (含论文、课题、科研获奖、教学成果)

#### 1. 近年发表的论文

- [1] **Huang Shipai**, Cai Mingjie, Xiang Zhengrong, Robust sampled-data  $H_\infty$  control for offshore platforms subject to irregular wave forces and actuator saturation, *Nonlinear Dynamics*, 2017, 88(4): 2705-2721.
- [2] **Huang Shipai**, Xiang Zhengrong, Finite-time stabilisation of a class of switched nonlinear systems with state constraints, *International Journal of Control*, 2017, DOI: 10.1080/00207179.2017.1314018.
- [3] **Huang Shipai**, Xiang Zhengrong, Adaptive finite-time stabilisation of a class of high-order nonlinear systems with inverse dynamics, *International Journal of Systems Science*, 2017, 48(11): 2321-2332.
- [4] **Huang Shipai**, Xiang Zhengrong, Finite-time output tracking for a class of switched nonlinear systems, *International Journal of Robust and Nonlinear*

*Control*, 2017, 27(6): 1017-1038.

- [5] **Huang Shippei**, Xiang Zhengrong, Finite-time stabilization of switched stochastic nonlinear systems with mixed odd and even powers, *Automatica*, 2016, 73: 130-137.
- [6] **Huang Shippei**, Xiang Zhengrong, Finite-time stabilization of a class of switched stochastic nonlinear systems under arbitrary switching, *International Journal of Robust and Nonlinear Control*, 2016, 26(10): 2136-2152.
- [7] **Huang Shippei**, Xiang Zhengrong, Adaptive finite-time stabilization of a class of switched nonlinear systems using neural networks, *Neurocomputing*, 2016, 173: 2055-2061.
- [8] **Huang Shippei**, Xiang Zhengrong, Stability of a class of fractional-order two-dimensional non-linear continuous-time systems, *IET Control Theory and Applications*, 2016, 10(18): 2559-2564.
- [9] **Huang Shippei**, Xiang Zhengrong, Stability analysis of two-dimensional switched non-linear continuous-time systems, *IET Control Theory and Applications*, 2016, 10(6): 724-729.
- [10] **Huang Shippei**, Li Xia, Xiang Zhengrong, Anti-windup design and  $l_2$ -gain analysis for a class of discrete-time impulsive switched systems with actuator saturation, *Transactions of the Institute of Measurement and Control*, 2016, 38(4): 425-434.
- [11] **Huang Shippei**, Xiang Zhengrong, Hamid Reza Karimi, Mixed  $L_\infty / L_1$  fault detection filter design for fuzzy positive linear systems with time-varying delays, *IET Control Theory and Applications*, 2014, 8(12): 1023-1031.
- [12] **Huang Shippei**, Xiang Zhengrong, Delay-dependent robust  $H_\infty$  control for 2-D discrete nonlinear systems with state delays, *Multidimensional Systems and Signal Processing*, 2014, 25(4): 775-794.
- [13] **Huang Shippei**, Xiang Zhengrong, Hamid Reza Karimi, Input-output finite-time stability of discrete-time impulsive switched linear systems with state delays, *Circuits, Systems, and Signal Processing*, 2014, 33(1): 141-158.

- [14] **Huang Shipai**, Xiang Zhengrong, Robust reliable control of uncertain 2D discrete switched systems with state delays, *Transactions of the Institute of Measurement and Control*, 2014, 36(1): 119-130.
- [15] **Huang Shipai**, Xiang Zhengrong, Hamid Reza Karimi, Robust  $l_2$ -gain control for 2D nonlinear stochastic systems with time-varying delays and actuator saturation, *Journal of the Franklin Institute*, 2013, 350(7): 1865-1885.
- [16] **Huang Shipai**, Xiang Zhengrong, Robust  $L_\infty$  reliable control for uncertain switched nonlinear systems with time delay under asynchronous switching, *Applied Mathematics and Computation*, 2013, 222: 658-670.
- [17] **Huang Shipai**, Xiang Zhengrong, Delay-dependent stability for discrete 2D switched systems with state delays in the Roesser model, *Circuits, Systems, and Signal Processing*, 2013, 32(6): 2821-2837.

## 六、 研究生培养情况

无。

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