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研究方向

机电控制与自动化，机电一体化

代表性论文

1. Jie Huang*, Xinsheng Zhao, Control of three-dimensional nonlinear slosh in moving rectangular containers, ASME Journal of Dynamic Systems, Measurement, and Control, vol.140, no. 8, pp. 081016-8, 2018.
2. Bin Chen, Jie Huang*, Decreasing infinite-mode vibrations in single-link flexible manipulators by a continuous function, Proceedings of the Institution of Mechanical Engineers, Part I, Journal of Systems and Control Engineering, vol. 23, no. 6, pp. 436-446, 2017.
3. Rui Tang; Jie Huang*, Control of bridge cranes with distributed-mass payloads under windy conditions, Mechanical Systems and Signal Processing, vol. 72-73, pp. 409-419, May 2016.
4. Qiang Zang, Jie Huang*, Dynamics and control of three-dimensional slosh in a moving rectangular liquid container undergoing planar excitations, IEEE Transactions on Industrial Electronics. vol. 62, no. 4, pp. 2309 - 2318, April 2015
5. Jie Huang*, Zan Liang, Qiang Zang, Dynamics and swing control of double-pendulum bridge cranes with distributed-mass beams. Mechanical Systems and Signal Processing. vol. 54-55, pp. 357-366, March 2015

6. Jie Huang*, Xumiao Xie, Zan Liang, Control of bridge cranes with distributed-mass payload dynamics, IEEE/ASME Transactions on Mechatronics, vol. 20, no. 1, pp. 481-486, 2015.

7. Qiang Zang, Jie Huang*, Zan Liang, Slosh suppression for infinite modes in a moving liquid container, IEEE/ASME Transactions on Mechatronics, vol. 20, no. 1, pp. 217-225, 2015.

8. Zan Liang, Jie Huang*, Design of high-speed cam profiles for vibration reduction using command smoothing technique, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol. 228, no. 18, pp. 3322-3328, 2014.

9. Jie Huang, Ehsan Maleki*, William Singhose, Dynamics and swing control of mobile boom cranes subject to wind disturbances, IET Control Theory and Applications, vol. 7, no. 9, pp. 1187-1195, 2013.

10. Xumiao Xie, Jie Huang*, Zan Liang, Using continuous function to generate shaped command for vibration reduction, Proceedings of the Institution of Mechanical Engineers, Part I, Journal of Systems and Control Engineering. vol. 227, no. 6, pp. 523-528, 2013.

11. Xumiao Xie, Jie Huang*, Zan Liang, Vibration reduction for flexible systems by command smoothing, Mechanical Systems and Signal Processing. vol. 39, pp. 461-470, 2013.

代表性研究项目

在机电控制与自动化方向主要从事以下六个领域

1) 空中机器人

2) 柔性机械臂

见代表论文[2]

3) 流体晃动控制

见代表论文[1] [4] [7]

4) 工业起重机控制

见代表论文[3] [5] [6] [9]

5) 高速凸轮运动设计

见代表论文[8]

6) 柔性结构振动控制

见代表论文[10] [11]

详细研究项目请访问网址https://www.researchgate.net/profile/Jie_Huang31

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