

## 个人基本情况

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博士 硕士生导师

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## 学术经历

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2011.09–2017.06 北京理工大学 博士  
2017.08–2018.07 工信部一所 工程师  
2018.08–至今 温州大学 讲师  
2020.06–2022.05 西安理工大学 博士后

## 研究方向

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机器学习；模式识别；高分辨率成像

## 部分科研项目

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1. 省自然科学基金探索项目，波前编码大景深成像方法与关键技术研究，主持
2. 装备预先研究项目，大光圈×××红外成像技术，2017.01-2020.12，210万元,参与国家自然科学基金面上项目，基于辐射校正的微悬臂梁红外成像方法与关键技术研究，2012.01-2015.12，68万元，参与
3. 总装探索基金，×××技术探索研究，2012.01-2014.12，450万元，参与
4. 国家863计划（军），2011AA7014051，×××成像技术，2011.07-2016.06，150万，参与

## 部分发表论文

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- [1] **Wu Yijian**, Dong Liquan, Zhao Yuejin, et al. Analysis of wavefront coding imaging with cubic phase mask decenter and tilt.[J]. Applied Optics, 2016, 55(25):7009.. (SCI)
- [2] **Wu Yijian**, Dong Liquan, Zhao Yuejin, et al. Imaging and image restoration of lens-combined modulated wavefront coding[J]. Review of Scientific Instruments, 2016, 87(9): 095106. (SCI)
- [3] **Wu Yijian**, Zhao Yuejin, Guo Xiaohu, et al. Research on signal-to-noise ratio characteristics and image restoration for wavefront coding[C]// SPIE Optical Engineering + Applications. 2015:959800. (EI)
- [4] Guo Xiaohu, Dong Liquan, Zhao Yuejin, Jia Wei, Kong Lingqin, **Wu Yijian** et al. Imaging and image restoration of an on-axis three-mirror Cassegrain system with wavefront coding technology[J]. Applied optics, 2015, 54(10): 2798-2805. (SCI)
- [5] Guo Xiaohu, Zhao Yuejin, **Wu Yijian**, et al. The analysis and design of multiple phase plane for wave front coding system[C]//SPIE Optical Engineering+ Applications. International Society for Optics and Photonics, 2014: 91930D-91930D-9. (EI)
- [6] Guo Xiao, Zhao Yuejin, Li Bing, **Wu Yijian**, et al. Principle study and numerical simulation of a new super-resolution optical structure[J]. Materials Research, 2013, 16(16):1237-1245. (EI)
- [7] Zhao Ji, Zhang Liangliang, **Wu Yijian**, et al. The study of gas species on THz generation from laser-induced air plasma[C]// SPIE Optical Engineering + Applications. 2015:958509. (EI)
- [8] Liu Yun, Zhao Yuejin, Liu Ming, Dong Liquan, Hui Mei, Liu Xiaohua, **Wu Yijian**. Research on the algorithm of, infrared target detection based on the, frame difference and background subtraction method[C] SPIE Optical Engineering + Applications. 2015:959607. (EI)
- [9] Chen Di, Dong Liquan, Zhao Yuejin, Liu Xiaohua, Li Cuilin, Guo Xiaohu, Zhao Zhu, **Wu Yijian**. Research on the controlling thermal defocus aberration for the infrared imaging system based on wavefront coding[J]. Proceedings of SPIE - The International Society for Optical Engineering, 2014, 9192(2): 623-625. (EI)
- [10] Liu Weiyu, Dong Liquan, Zhang Tong, Jia Wei, Wu Yijian, et al. Research on a novel image restoration

algorithm for the wave-front coding system[J]. Proceedings of SPIE - The International Society for Optical Engineering, 2013, 9045(4):2714-2739. (EI)

[11]郭小虎, 赵跃进, 吴益剑.波前编码技术在同轴三反系统的应用及其分析[J]. 红外与激光工程, 2015, 44(7):2075-2079. (EI)

[12]郭小虎, 赵跃进, 董立泉, 刘明孔令琴, 吴益剑. 相位板偏心对波前编码系统的成像影响分析[J]. 中国激光, 2015(8):279-287. (EI)

## 专利申报

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[1] 吴益剑, 一种电动车智能充电保护装置. 中华人民共和国国家知识产权局, 申请专利号: 201910092726.5

[2] 胡杰;张笑钦;吴益剑;陈舒, 一种无人驾驶汽车的控制系统及方法. 中华人民共和国国家知识产权局, 申请专利号: 202011225436.2

## 承担课程

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本科课程: 人工智能基础, 大数据技术与原理, 大数据应用开发