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邸江磊，广东工业大学百人计划特聘教授，博士生导师。主持国家自然科学基金面上项目、NSAF联合基金项目、航空科学基金项目等多项，在国内外学术期刊发表SCI论文70余篇，获授权国家发明专利16项。主要研究方向：

#### (1) 基于人工智能的计算光学成像方法研究

将深度学习技术与信息光学相结合，开展基于深度学习的计算光学成像新方法研究；开展与数字全息技术相结合的TIE技术、层析技术、等离子体共振技术等的定量相位测量新技术的理论和实验研究。

#### (2) 数字全息技术

面向复杂物理场（湍流场、冲击波场、等离子场、火焰场等）和活性生物细胞、光学材料等折射率（或速度、密度、浓度、温度等）分布的高灵敏度动态可视化测量，以及物体表面形变和缺陷等的检测与表征需要，主要开展数字全息干涉术及数字全息显微术的理论和实验研究，重点涉及波长/角度/偏振复用、合成孔径、层析成像、及像差校正等关键技术。

#### (3) 精密光学测量仪器设计研发

根据不同的光学干涉测量系统原理方案，进行光学测量仪器的光机结构设计，及相应软件系统的整体架构及底层算法优化，进行光学精密测量仪器的设计与研发。

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### 主要荣誉:

- 郇江磊, 西北工业大学翱翔之星, 2012年;
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## 知识产权:

16. 郇江磊, 王凯强, 李颖, 豆嘉真, 戴思清, 赵建林, 一种基于深度学习的全息重建算法, 专利号: ZL201910000496.5;
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13. 郇江磊, 王凯强, 李颖, 豆嘉真, 戴思清, 赵建林, 一种基于深度学习的全息重建算法, 专利号: ZL201910000496.5;
12. 赵建林, 张继巍, 戴思清, 郇江磊, 一种具有亚纳米分辨率的薄膜厚度分布测量方法, 中国发明专利, 专利号: ZL201710613735.5;
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7. 赵建林, 张颜艳, 郇江磊, 姜宏振, 吴冰静, 陈鑫, 王骏, 一种反射型体全息光栅参数获取的方法, 中国发明专利, 专利号: ZL201210074630.4;
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5. 赵建林, 姜碧强, 潘子军, 郇江磊, 一种免受温度影响的光纤光栅压力传感器, 中国发明专利, 专利号: ZL200910022028.4;
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3. 赵建林, 郇江磊, 孙伟伟, 姜宏振, 闫晓博, 杨德兴, 一种像场弯曲的数值校正方法, 中国发明专利, 专利号: ZL200710019086.2;
2. 赵建林, 姜宏振, 郇江磊, 一种彩色数字全息像的获取方法, 中国发明专利, 专利号: ZL200710188455.0;
1. 赵建林, 郇江磊, 姜宏振, 闫晓博, 孙伟伟, 杨德兴, 一种非傍轴和离焦像差的数值校正方法, 中国发明专利, 专利号: ZL200710019085.8。

## 科研项目:

14. 国家自然科学基金面上项目, 62075183, 基于深度学习的数字全息显微成像方法研究, 2021/01-2024/12, 59万元, 主持;
13. 国家自然科学基金NSAF联合基金, U1730137, 光学元件亚表面残余应力三维分布测量方法研究, 2018/01-2020/12, 66万元, 主持;
12. 国家自然科学基金青年科学基金项目, 61405164, 基于波长/角度复用的数字全息显微干涉测量技术研究, 2015/01-2017/12, 24万元, 主持;
11. 陕西省重点研发计划国际科技合作与交流计划面上项目, 2017KW-012, 数字全息显微干涉测量关键技术研究, 2017/01-2018/12, 15万元, 主持;
10. 西安市技术转移促进工程项目, 用于复杂流场定量可视化测量的激光全息干涉仪, 2017/01-2018/12, 10万元, 主持;
9. 陕西省基础科学研究计划青年人才项目, 2013JQ8021, 全场三维信息获取的数字全息显微干涉仪研究, 2013/01-2014/12, 4万元, 主持;
8. 航空科学基金, 2012ZD53055, 用于复合材料损伤与缺陷检测的光纤数字全息干涉术研究, 2012/10-2014/09, 10万元, 主持;
7. 国家自然科学基金国家重大科研仪器研制项目, 61927810, 面向多参量动态测量的宽场无标记表面等离子体共振全息显微镜, 2020/01-2024/12, 587.15万元, 主要参与者;
6. 国家自然科学基金科学仪器基础研究专项, 61127011, 基于全场相位测量的多尺度动态数字全息干涉仪, 2012/01-2015/12, 300万元, 主要参与者;
5. 中国载人航天工程空间站实验舱流体物理实验柜项目, 空间数字全息干涉仪, 2014/01至今, 初研研制阶段, 390万元, 主要参与者;

4. 中物院流体物理研究所，光学瞬态表征与相差校正控制系统研制，2020/06-2020/10，48.8万元，主持；
3. 中物院流体物理研究所，相干合成控制系统研制，2020/06-2020/10，29.2万元，主持；
2. 中物院激光聚变研究中心，大口径元件调制检测系统，2019/05-2019/08，41.8万元，主持；
1. 主持西北工业大学基础研究基金，中科院重点实验室开放基金，以及其他横向课题等16项。

### 教学活动：

### 我的团队：

隶属于广东工业大学先进光子技术院。团队专注光纤通信、光纤传感、计算光学成像、光电检测及器件等方面的研究工作。

### 联系方式：

指导学生参加大学生创新创业项目，并在全国各类科技竞赛多次获奖，推荐优秀学生赴欧美等高校访学深造，推荐学生赴国防院所和广深相关企业实习锻炼。感兴趣同学请联系：



注: 1.若有跟本人教学、科研、学术等相关的视频、表格、超链接、文档等，皆可发送；

2.资料请以文件包形式发送到邮箱：342168594@qq.com 谢谢！

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