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研究领域	1. 人工智能与农业机器人；2. 智慧农业信息感知技术与装备；3. 智能化农业装备			
教授课程	《人工智能导论》、《人工智能与现代农机》、《农业自动化与信息化专题》			
承担项目	<p>主持国家重点研发计划子课题、国家自然科学基金、江苏省自然科学基金、南京农业大学高层次引进人才科研启动经费等 5 项，参与国家重点研发计划项目、国家科技支撑计划、国家自然科学基金、江苏省重点研发计划、中央高校基本科研业务费重点项目等近 10 项。</p> <ol style="list-style-type: none"> 1. 国家重点研发计划项目子课题-精准定位播种作业决策系统研究，项目编号：2017YFD0700502-2，经费 163 万，主持； 2. 国家自然科学基金-电-气混合式农业机器人抓手设计及自适应主动柔顺抓取控制研究，项目编号：31901415，经费 25 万，主持； 3. 江苏省自然科学基金-农业机器人抓取模型辨识与柔顺抓取决策实时构建方法研究，项目编号：BK20180515，经费 20 万，主持； 4. 国家自然科学基金-基于多光谱成像和近红外点阵结构光的苹果表面缺陷快速检测方法研究，项目编号：31301236，经费 23 万，参与； 5. 国家自然科学基金-基于光谱和图像特征融合的苹果内外部多品质指标同步在线检测方法研究，项目编号：31671927，经费 62 万，参与； 6. 国家科技支撑计划项目-苹果产地分级处理及储运品质监测装备研发与示范，项目编号：2014BAD21B01，经费 970 万，参与； 			

	<p>7. 江苏省重点研发计划项目-多功能自走式果园管理机器人研发，项目编号：BE2017370，经费 100 万，参与；</p> <p>8. 中央高校基本科研业务费重点项目-矮化密植果园偏置式除草施肥联合作业机器人研究，项目编号：KYGX201701，经费 50 万，参与.</p>
学术成果 (论文、专利、 软著等)	<p>主要从事人工智能、机器学习、数据挖掘技术及其在农业机器人、智能农业装备、农产品品质与安全无损检测技术及装备方面的应用研究。在上述领域发表 SCI 论文 50 余篇、EI 论文 10 余篇，ESI 高被引论文多篇；获得国家发明专利授权 8 项、实用新型专利 4 项、计算机软件著作权 10 项，出版学术专著“图-谱分析技术在农产品质量与安全无损评估中的应用”（武汉大学出版社，30 万字），主编国际专著“Agricultural Robots: Fundamentals and Applications”(ISBN: 978-953-51-6740-2)，参编国际专著 3 本。</p> <p><u>论文精选：</u></p> <p>[1] Zhang Baohua, Dai Dejian, Huang Jichao, Zhou Jun*, Gui Qifa, Dai Fang. Influence of physical and biological variability and solution methods in fruit and vegetable quality non-destructive inspection by using imaging and near-infrared spectroscopy techniques: A review [J]. Critical Reviews in Food Science and Nutrition, 2018, 58(12): 2099-2118. (SCI, IF=7.862, JCR Q1)</p> <p>[2] Zhang Baohua, Baoxing Gu, Guangzhao Tian, Zhou Jun*, Huang Jichao, Yingjun Xiong. Challenges and solutions of optical-based nondestructive quality inspection for robotic fruit and vegetable grading systems: A technical review [J]. Trends in Food Science & Technology, 2018, 81: 213-231. (SCI, IF=11.077, JCR Q1)</p> <p>[3] Zhang Baohua, Zhou Jun, Meng Yimeng, et al. Comparative study of mechanical damage caused by a two-finger tomato gripper with different robotic grasping patterns for harvesting robots[J]. Biosystems engineering, 2018, 171: 245-257. (SCI, IF=3.215, JCR Q1)</p>

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- [5] **Zhang Baohua**, Xie Yuanxin, Zhou Jun*, Wang Kai, Zhang Zhen. State-of-the-art robotic grippers, grasping and control strategies, as well as their applications in agricultural robots: A review[J]. Computers and Electronics in Agriculture, 2020, 177: 105694. (**SCI, IF=3.858, JCR Q1**)
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using portable FT-NIR spectrometers combined with cultivar recognition and multivariate analysis[J]. IEEE Access, 2020, 8: 126039-126050. (SCI, IF=3.745, JCR Q1)

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	<p>3063-3067. (SCI, IF=0.27)</p> <p><u>授权的发明专利或实用新型专利:</u></p> <p>[1] 张保华,刘成良,赵春江,贡亮,李彦明,黄丹枫.水果表面缺陷检测方法,2013.06,中国,ZL201310061313.3.</p> <p>[2] 张保华,刘成良,贡亮,李彦明,李子枫,林昌建,郭凯峰,金理钻,邵达.基于图像处理的水果分选装置,2013.05,中国,ZL201310009241.8.</p> <p>[3] 刘成良,张保华,贡亮,屠珺,金理钻,李子枫,郭凯峰,林昌建.水果分选机可控旋转角度齿纹托盘装置,2013.02,中国,ZL201210505918.2.</p> <p>[4] 黄文倩,李江波,张保华,张驰,郭志明,王庆艳,樊书祥.基于图像处理的小型农产品分选机,2013.09,中国,CN203170604U.</p> <p>[5] 武继涛,黄文倩,李江波,杨晶晶,张保华,樊书祥,王超鹏.小型农产品分选系统,2014.12,中国,CN204018236U.</p> <p>[6] 黄文倩,李江波,张保华,张驰,王庆艳,武继涛,樊书祥,郭志明,杨晶晶.农产品形状检测方法及装置,2014.04,中国,ZL201310747003.7.</p> <p>[7] 黄文倩,李江波,张保华,杨晶晶,王超鹏,樊书祥,刘宸,钱曼.一种水果果梗花萼的识别系统,2015.09,中国,CN104897671A.</p> <p>[8] 黄文倩,李江波,武继涛,张驰,郭志明,王庆艳,张保华,樊书祥.用于水果无损检测和称重卸料的果杯机构及水果处理系统,2014.09,中国,ZL201410150603X.</p> <p>[9] 李子枫, 郭凯峰, 张保华, 林昌建, 贡亮. 带有连接管的机械式容积调节装置. 发明专利授权号: ZL201210388986.5.</p> <p>[10] 林昌建, 张保华, 郭凯峰, 等. 双压气机同轴相连装置. 实用新型专利授权号: CN202883099U.</p> <p>[11] 黄文倩, 李江波, 张保华, 等. 农产品形状检测方法及装置. 发明专利授权号: ZL201310747003.7.</p> <p>[12] 李斌, 陈立平, 张保华, 等. 基于太赫兹光谱的肉类内部金属检测装置. 发明专利公布号: CN104897671A.</p> <p>[13] 刘成良, 李子枫, 贡亮, 苗中华, 王双园, 张保华. 双行苗稀疏可调的半自动插秧机. 发明专利授权号: ZL201210546073.1.</p> <p>[14] 张保华, 宋佳昊, 雷威, 等. 左右移动式机械调节系统. 发明专利公布</p>
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	号：CN102913320A.
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