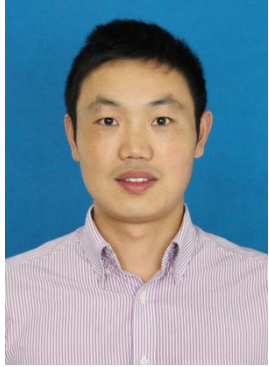


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承担项目	1. 江苏省苏北科技专项：苏淮猪品牌建设中安全优质猪肉生产管理体系研究（编号：BN2016097） 2. 校人才引进启动基金：母猪产前行为模型构建与分娩时间预测研究（编号：rcqd14-05） 3. 江苏省产学研项目：智能型猪用分娩床关键技术与系统集成研究（编号：BY2015071-06） 4. 江苏省产学研项目：基于物联网农业信息化平台的关键技术研发（编号：BY2014128-01）			
学术成果	近期主要论文： 1. 刘龙申, 沈明霞, 柏广宇, 等. 基于机器视觉的母猪分娩检测方法研究 [J]. 农业机械学报, 2014:45(3), 237-242. 2. 刘龙申, 沈明霞, 姚文, 等. 基于加速度传感器的母猪产前行为特征采集与分析 [J]. 农业机械学报, 2013:44(3), 192-196. 3. 刘龙申, 沈明霞, 孙玉文, 等. 基于 FPGA 的农田图像采集与 3G 无线传输系统设计 [J]. 农业机械学报, 2011:42(12), 186-190. 授权专利： 1. 基于 DSP 的 ZigBee 网络的农田数据流处理系统, 发明专利, ZL200810124008.3, 2009.04. 徐友, 沈明霞, 刘龙申. 2. 基于 Android 平台的智能温室管理系统及其方法, 发明专利, ZL201210039994.9, 2012.07. 沈明霞, 熊迎军, 路顺涛, 刘龙申. 3. 应用于温室环境监控的无线传感器网络智能网关, 发明专利, ZL201210039992.X, 2012.07. 沈明霞, 熊迎军, 陈林锋, 刘龙申. 4. 基于嵌入式双相机平台的智能温室油桃果实生长速率无线监测系统, 发明专利, ZL201210040542, 2012.07. 沈明霞, 熊迎军, 刘龙申. 5. 基于 DSP 的猪行为智能监测系统, 实用新型专利, ZL201120313540.7, 2012.04. 赵茹茜, 刘龙申, 陆明洲.			
奖励荣誉	2016 年获“江苏农业科技奖二等奖”； 2016 年获“江苏农业机械工业科技奖一等奖”			

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Research projects	<p>1.Northern jiangsu science and technology projects: okazaki t pigs to produce high quality pork safety management system in the construction of brand research(No.BN2016097)</p> <p>2.Start school talent introduction fund: sow antenatal behavior model building and the delivery time(No.rcqd14-05)</p> <p>3.Production project in jiangsu province: intelligent pig key technology and system integration research with delivery bed(No.BY2015071-06)</p> <p>4.Production project in jiangsu province: based on Internet of things in agricultural information platform of the key technology research and development(No.BY2014128-01)</p>			
Academic achievements	<p>Recent major papers:</p> <p>1.Long-shen Liu, ming-xia Shen, BaiGuangYu, etc. The sow childbirth detection method based on machine vision research [J]. Journal of agricultural machinery, 2014, 45 (3), 237-242.</p> <p>2.Long-shen Liu, ming-xia Shen, Yao Wen, etc. Based on sow antenatal behavior characteristic collection and analysis of the acceleration sensor [J]. Journal of agricultural machinery, 2013, 44 (3), 192-196.</p> <p>3.Long-shen Liu, ming-xia Shen, Yu-wen Sun, etc. Farmland image acquisition based on FPGA and 3G wireless transmission system design [J]. Journal of agricultural machinery, 2011, 42 (12), 186-190.</p> <p>Authorized patents:</p> <p>1. ZigBee network based on DSP farmland data stream processing system, invention patent, ZL200810124008.3, 2009.04 Xu You, Ming-xia Shen, Long-shen Liu.</p> <p>2. Intelligent greenhouse management system and its method based on the Android platform, invention patent, ZL201210039994.9, 2012.07 Ming-xia Shen, Ying-jun Xiong, Shun-tao Lu, Long-shen Liu.</p> <p>3. Applied in greenhouse environmental monitoring of intelligent wireless sensor network gateway, invention patent, ZL201210039992. X, 2012.07 Ming-xia Shen, Xiong Yingjun, Chen Linfeng, Long-shen Liu.</p> <p>4. Double camera platform based on embedded intelligent greenhouse nectarine fruit growth rate of the wireless monitoring system, invention</p>			

	<p>patent, ZL201210040542, 2012.07 Ming-xia Shen, Ying-jun Xiong, Long-shen Liu.</p> <p>5.Pig behavior intelligent monitoring system based on DSP, the patent for utility model, ZL201120313540.7, 2012.04 Ru-qian Zhao, Long-shen Liu, Ming-zhou Lu.</p>
Reward & honor	<p>In 2016 won the second prize of Jiangsu province agricultural science;</p> <p>In 2016 won first prize Jiangsu agricultural machinery industry awards.</p>