

SOC710 国内文献:

- *1 清华大学: “Measurement of distributions of temperature and wavelength-dependent emissivity of a laminar diffusion flame using hyper-spectral imaging technique”
《Measurement Science and Technology》 (机器视觉、自动化、计算机、医学领域)
- *2 中科院沈阳自动化所: “New spectrum ratio properties and features for shadow detection” *《Pattern Recognition》* (机器视觉、自动化、计算机、医学领域)
- *3 中科院沈阳自动化所: “Simple and effective calculations about spectral power distributions of outdoor light sources for computer vision” *《Optical Society of America》* (机器视觉、自动化、计算机、医学领域)
- *4 中国矿业大学: “用近红外高光谱图像区分不同品质的建筑材料”. *《光谱学与光谱分析》* (机器视觉、自动化、计算机、医学领域)
- *5 北京林业大学: “神经网络在龙井茶叶品质分类中的应用”. *《视频质量与安全》* (机器视觉、自动化、计算机、食品质量)
- *6 首都师范大学: “官厅水库消落带土壤有机质分布特征及其高光谱反演研究”. *硕士学位论文* (农业遥感、环境监测、水土资源、高光谱地理制图领域)
- *7 天津大学精密仪器与光电子工程学院: “显微光谱成像技术与应用”. *《光谱仪器与分析》* (显微光谱、高光谱图像处理)
- *8 河北师范大学: “坝上草原退化指示种光谱特征研究”. *《干旱区资源与环境》* (农业遥感、环境监测、水土资源、高光谱地理制图领域)
- *9 中国科学院长春光学精密机械与物理研究所: “轻小型可见/近红外实时成像光谱仪的光学系统设计”. *《光学学报》* (机器视觉、自动化、计算机、医学领域)
- *10 山东省农业科学院科技信息研究所: “A Study of Estimation Model for the Chlorophyll Content of Wheat Leaf Based on Hyperspectral Imaging”. *《Asian Agricultural Research》* (农业基础研究、农业技术、资源与环境、农业信息、农业经济与管理)
- *11 中国科学院遥感与数字地球研究所: “Detection of Wheat Powdery Mildew by Differentiating Background Factors using Hyperspectral Imaging”. *《International Journal of Agriculture and Biology》* (树木分子生物学、农学、分子生物学、微生物学、种子生理、蛋白质组学、植物)
- *12 北京林业大学园林学院: “基于高光谱成像技术的菊花花色表型和色素成分分析”. *《北*

《[京林业大学学报](#)》(作物分类、色素含量、植物、花卉应用)

- *13 北京林业大学: “人工神经网络在龙井茶叶品质分类中的应用”. [《农产品质量安全》](#)
(作物分类、算法研究、植物)
- *14 中国矿业大学(北京)地球科学与测绘工程学院: “基于高光谱成像技术和 PCA 检测苹果的轻微损伤”. [《科技经济导刊》](#) (作物分类、算法研究、食品检测)
- *15 中国矿业大学(北京)地球科学与测绘工程学院: “利用高光谱微分方法检测苹果轻微损伤”. [《福建农业学报》](#) (作物分类、算法研究、食品检测)
- *16 中国矿业大学(北京)地球科学与测绘工程学院: “苹果轻微机械损伤高光谱图像无损检”. [《光谱学与光谱分析》](#) (作物分类、算法研究、食品检测)
- *17 河北师范大学: “河北坝上地区草地退化指示种的高光谱特征波段识别”. [《生态与农村环境学报》](#) (农业遥感、环境监测、水土资源、高光谱地理制图领域)
- *18 电子科技大学资源与环境学院: “地面植被的主被动同步观测实验方法”. [《实验科学与技术》](#) (农业基础研究、农业技术、资源与环境、农业信息)
- *19 河北师范大学: “巴音布鲁克草原植被覆盖度估算的光谱模型及其应用”. [《水土保持通报》](#) (农业遥感、环境监测、水土资源、高光谱地理制图领域)
- *20 科学技术信息研究所, 山东省农业科学院: Spectral Characteristics Comparison of Two Summer Corn Cultivars under Different Fertilization Treatments. [《Assion Agricultural Research》](#) (农业遥感、精准农业) Nov 2017
- *21 山东省农业科学院: Study on Hyperspectral Estimation Model of Chlorophyll Content in Grape Leaves. [《Agricultural Biotechnology》](#) (精准农业、植被模型) May 2018
- *22 华中科技大学光电与信息工程学院: 便携式成像光谱仪的电路设计与实现. [《硕士学位论文》](#) (成像光谱、电路设计) May 2016
- *23 中国林业科学研究院资源信息研究所: 地面成像和非成像地物光谱仪在不同水分环境下湿地植被光谱特征对比研究. [《测绘与空间地理信息》](#) (地面遥感、湿地植被模型) Apr 2018
- *24 北京林业大学工学院: 高光谱技术在茶叶品种检测中的应用. [《科技创新导报》](#) (地面遥感、湿地植被模型) 2017
- *25 河北师范大学: 基于 MODIS_NDVI 的新疆巴音布鲁克草原植被覆盖度时空变化特征及影响因素分析. [《硕士学位论文》](#) (成像光谱、光谱模型) Seb 2015
- *26 山东省农业科学院科技信息研究所: 基于成像高光谱的小麦叶片叶绿素含量估测模型研究. [《河南农业科学》](#) (高光谱遥感、精准农业) Oct 2015

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- *27 山东农业大学：基于成像光谱的冬小麦水分快速监测研究. [硕士论文](#) (成像光谱、精准农业) Jun 2018
- *28 中国林业科学研究院资源信息研究所，中南林业科技大学林业遥感信息工程研究中心：基于地面成像光谱数据特征的湿地典型植被类型识别研究. [《西北林学院学报》](#) (高光谱遥感、地面遥感) Oct 2017
- *29 西北农林科技大学：基于地物光谱仪与成像光谱仪耦合的玉米生长信息监测研究. [硕士论文](#) (高光谱遥感、精准农业) May 2017
- *30 西北农林科技大学：基于高光谱参数的冬油菜理化参量估算模型研究. [硕士论文](#) (高光谱遥感、精准农业) May 2018
- *31 北京工商大学计算机与信息工程学院：基于高光谱成像的香肠菌落总数回归预测及数据可视化. [《现代食品科技》](#) (高光谱成像、显微高光谱) Oct 2016
- *30 黑龙江大学：基于高光谱成像技术的苹果外部损伤精确识别与分级方法研究. [硕士论文](#) (高光谱成像、食品检测) Apr 2018
- *30 山东农业大学：基于高光谱成像技术的苹果叶片氮素含量估测研究. [硕士论文](#) (高光谱成像、精准农业) Jun 2018
- *31 北京工商大学：基于光谱成像技术的小麦种子品质分析研究. [硕士论文](#) (高光谱成像、精准农业) May 2017
- *32 山东农业大学：基于近地成像光谱数据的不同物候期苹果叶片叶绿素含量预测. [硕士论文](#) (高光谱成像、精准农业) Jun 2018
- *32 安徽大学：基于图像和光谱解析的小麦病害识别研究. [硕士论文](#) (高光谱成像、精准农业) Mar 2018
- *33 山东省农业科学院科技信息研究所：葡萄叶片叶绿素含量高光谱估测模型研究. [《山东农业科学》](#) (高光谱成像、精准农业) Apr 2018
- *34 西北农林科技大学：油菜的高光谱特征及其生理参数估算模型研究. [硕士论文](#) (高光谱遥感、精准农业) May 2017
- *35 西北农林科技大学：玉米生理参数及农田土壤信息高光谱监测模型研究. [硕士论文](#) (高光谱遥感、精准农业) Jun 2016
- *36 中国林业科学研究院资源昆虫研究所，西南林业大学林学院：云南切梢小蠹危害云南松监测模型与判定规则. [《林业科学研究》](#) (高光谱遥感、精准农业) Jan 2018
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SOC710 国外文献:

*1 Division of Seasonal Biology, National Institute for Basic Biology, National Institutes of Natural Sciences, Okazaki Japan: “Dynamic plasticity in phototransduction regulates seasonal changes in color perception”. *《nature》* (图像处理、3D 制图、高光谱制图领域)

*2 Department of Scientific Research, The Metropolitan Museum of Art , New York: “Van Gogh’s Irises and Roses: the contribution of chemical analyses and imaging to the assessment of color changes in the red lake pigments”. *《Heritage Science》* (文物修复、元素探测)

*3 Department of Electrical and Computer Engineering, The University of Auckland Auckland, New Zealand: “Honey Dataset Standard Using Hyperspectral Imaging for Machine Learning Problems”. *《European Signal Processing Conference》* (图像处理、食品品质)

*4 Nara Institute of Science and Technology & National Institute of Informatics, The University of Japan : “One-shot Hyperspectral Imaging using Faced Reflectors”. *《Conference on Computer Vision and Pattern Recognition》* (图像处理)

*5 Institute of Chemistry and Dynamics of the Geosphere, Columbia University USA: “Hyperspectral Imaging Of Photosynthesis From The Single Leaf To The Complex Canopy - Understanding The Spatiotemporal Variations Of Photosynthesis Within A Drought-Stressed Tropical Canopy”. *《EARSeL and Warsaw University》* (农业遥感、干旱胁迫)

*6 Society for Integrative and Comparative Biology annual meeting, Berkeley University USA: “Hyperspectral Imaging System SOC710-VP Lights Up Research on Disco Clams”. *《Society for Integrative and Comparative Biology annual meeting》* (农业遥感、干旱胁迫)

*7 Physical Sciences Division, Pacific Northwest National Laboratory, Richland, USA: “Visualizing surface plasmons with photons, photoelectrons, and electrons”. *《Analyst》* (显微光谱、材料研究)

*8 By AZoNano Staff Writers: “Analyzing Nanoparticles in Cancer Cells Using Darkfield Hyperspectral Imaging”. *《AZoNano》* (显微光谱、材料研究)

*9 Environmental and Molecular Sciences Laboratory, Richland,USA : “Multimodal

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hyperspectral optical microscopy”. *《Chemical Physic》* (显微光谱、材料特性探测)

*10 Department of Geography, San Diego State University, San Diego: “Detecting Tamarisk species (*Tamarix* spp.) in riparian habitats of Southern California using high spatial resolution hyperspectral imagery”. *《Remote Sensing of Environment》* (农业遥感、环境监测、水土资源)

*11 Department of Mechanical Engineering Stevens Institute of Technology: “Comparison of Photometric Stereo and Spectral Analysis for Visualization and Assessment of Burn Injury from Hyperspectral Imaging”. *Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA), 2015 IEEE International Conference on* (农业遥感、水土资源、高光谱地理制图领域)

*12 Aalto University, School of Science and Technology, Aalto, Finland: “Extreme learning machines for soybean classification in remote sensing hyper spectral images”. *《Neurocomputing》* (农业遥感、环境监测、水土资源)

*13 Department of Electrical and Computer Engineering, The University of Texas at El Paso: “Skin Detection in Hyperspectral Images”. *《Proc. of SPIE》* (机器视觉、自动化、计算机、医学领域)

*14 Department of Mechanical Engineering Stevens Institute of Technology: “Comparison of Photometric Stereo and Spectral Analysis for Visualization and Assessment of Burn Injury from Hyperspectral Imaging”. *Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA), 2015 IEEE International Conference on* (机器视觉、自动化、计算机、医学领域)

*15 Computational Intelligence Group, Universidad del País Vasco, P Manuel Lardizabal: “Segmentation of Hyperspectral Images by Tuned Chromatic Watershed”. *《Paradigms and Applications》* (机器视觉、自动化、计算机、医学领域)

*16 Computational Intelligence Group, Universtiy of the Basque Country, UPV/EHU, Spain: “Experiments of Skin Detection in Hyperspectral Images”. *Springer International Publishing Switzerland 2015* (机器视觉、自动化、计算机、医学领域)

*17 Department of Chemistry and Biochemistry, University of Notre Dame : “Characterization of hotspots in a highly enhancing SERS substrate”. *《Analyst》* (机器视觉、自动化、计算机、医学领域)

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*18 Center for Imaging and Optics, Department of Computer Science, Montclair State University: “New approaches for feature extraction in hyperspectral imagery”. [《Remote Sensing of Environment》](#) (农业遥感、环境监测、国土资源、高光谱地理制图领域)

*19 Computational Intelligence Group, University of the Basque Country, Donostia-San Sebastian, Spain: “Person detection in hyperspectral images via skin segmentation using an active learning approach”. [《Proc. of SPIE》](#) (机器视觉、自动化、计算机、医学领域)

*20 Hyperspectral Optical Property Instrumentation (HOPI) Laboratory; bCenter for Coastal Studies Texas A&M University-Corpus Christi, 6300 Ocean Drive, Corpus Christi, TX, USA: “Mapping pigment distribution in mud samples through hyperspectral imaging”. [《Proc. of SPIE》](#) (机器视觉、材料学)

*21 School of Media and Communication, RMIT University, Melbourne, Victoria, Australia: “Differentiating Biological Colours with Few and Many Sensors: Spectral Reconstruction with RGB and Hyperspectral Cameras”. [《PLOS ONE》](#) (机器视觉、材料学)

*22 Silesian University of Technology: “Capturing the Best Hyperspectral Image in Different Lighting Conditions”. [Eighth International Conference on Machine Vision \(ICMV 2015\)](#) (机器视觉、高光谱)

*23 Laboratory of Evolutionary Genetics, Department of Chemical and Biological Sciences, Japan Women's University: “Characterization of assortative mating in medaka: Mate discrimination cues and factors that bias sexual preference”. [《Hormones and Behavior》](#) (行为识别、生物学)

*24 Physical Sciences Division, Pacific Northwest National Laboratory: “Visualizing surface plasmons with photons, photoelectrons, and electrons”. [《ROYAL SOCIETY OF CHEMISTRY》](#) (光电子学、材料学、高光谱)

*25 Physical Sciences Division, Pacific Northwest National Laboratory: “Hyperspectral Dark Field Optical Microscopy of Single Silver Nanospheres”. [《The Journal of Physical Chemistry》](#) (物理学、材料学、高光谱)

*26 Department of Biomedical Computer Systems, University of Silesia: “Segmentation in dermatological hyperspectral images: dedicated methods”. [《Koprowski and Olczyk BioMed Eng OnLine》](#) (生物学、医学、高光谱)

*18 Texas A&M University-Corpus Christi, 6300 Ocean Drive, Corpus Christi, TX

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78412-5797, USA: “Detecting red blotch disease in grape leaves using hyperspectral imaging”. *《Proc. of SPIE》* (生物学、医学、高光谱)

*27 University of puerto ricomayaguez campuse: “Hyperspectral change detection using temporal principal component analysis”. *硕士论文* (算法研究、高光谱)

*28 U.S.Army’s Armament Research & Development Center: “VNIR hyperspectral background characterization methods in adverse weather conditions”. *《Proc. of SPIE》* (高光谱)

*29 Center for Imaging and Optics, Dept. of Computer Science, RI 301, Montclair State University: “A parallel unmixing algorithm for hyperspectral images”. *《Proc. of SPIE》* (计算机、算法研究、高光谱)

*30 Stefan A. Robila, *Member, IEEE*, and Lukasz G. Maciak: “Considerations on Parallelizing Nonnegative Matrix Factorization for Hyperspectral Data Unmixing”. *IEEE* (遥感、算法研究、高光谱)

*31 Uwe Rascher, Caroline J. Nichol, Christopher Small, and Leif Hendricks: “Monitoring Spatio-temporal Dynamics of Photosynthesis with a Portable Hyperspectral Imaging System”. *《Photogrammetric Engineering & Remote Sensing》* (农业遥感、高光谱)

*32 University of puerto ricomayaguez campuse: “Object recognition using spherical harmonics shape descriptor in hyperspectral imagery”. *硕士论文* (机器视觉、算法研究、高光谱)

*33 Kristian Kersting, Mirwaes Wahabzada: “Simplex Distributions for Embedding Data Matrices over Time”. (农业遥感、算法研究、高光谱)

*34 Biosphere 2 Laboratory, Columbia University, Oracle, AZ 85623, USA: “Hyperspectral imaging of photosynthesis from the spatiotemporal variations of photosynthesis within a drought-stressed tropical canopy”. *《New quality in environmental studies》* (农业遥感、环境监测、高光谱)

*35 Photonics Research Center, United States Military Academy, 753 Thayer Road, West Point, NY,USA: “Combining hyperspectral imaging and Raman spectroscopy for remote chemical sensing”. *《Proc. of SPIE》* (化学、光谱学、高光谱)

*36 Zhaohui Guo and Stanley Osher: “Template Matching via l_1 Minimization and Its Application to Hyperspectral Data”. (算法研究、高光谱)

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- *37 Center for Imaging and Optics, Department of Computer Science, Montclair State University: "Toward Hyperspectral Face Recognition". *SPIE*(机器视觉、算法研究、高光谱)
- *38 Department of Geography, San Diego State University: "Detecting Tamarisk species (*Tamarix* spp.) in riparian habitats of Southern California using high spatial resolution hyperspectral imagery". *《Remote Sensing of Environment》* (植物研究、农业遥感、环境监测、高光谱)
- *39 U.S. Army's Armament Research & Development Center: "Analysis of an autonomous clutter background characterization method for hyperspectral imagery". *SPIE*(算法研究、高光谱)
- *40 The University of Maryland: "Algorithm development for Hyperspectral anomaly detection". *博士论文*(计算机、算法研究、高光谱)
- *33 Center for Imaging and Optics Department of Computer Science Montclair State University: "Real time processing of Hyperspectral images". *American Society for Photogrammetry and Remote Sensing, ASPRS* (算法研究、遥感、高光谱)
- *41 Center for Imaging and Optics, Department of Computer Science, Montclair State University: "New approaches for feature extraction in Hyperspectral imagery". (算法研究、高光谱)
- *42 Laboratory for Applied Remote Sensing and Image Processing University of Puerto Rico: "Hyperspectral image classification using spectral histograms and semisupervised learning". *《Proc. of SPIE》* (计算机、算法研究、高光谱)
- *43 University of puerto ricomayaguez campuse: "The development of ground truth data and accuracy assessment of Hyperspectral image classification and spectral unmixing". *硕士论文*(遥感、地信、高光谱)
- *44 Department of Computer Science, The College of New Jersey: "Hyperspectral image processing: A direct image simplification method". *《Proc. of SPIE》* (计算机、算法研究、高光谱)
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Algorithms”. [硕士论文](#) (地信、计算机、算法研究、高光谱)

*47Department of Electrical and Computer Engineering University of Puerto Rico :
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*48Department of Computer Science, Montclair State University : “Subpixel Target
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*49Rochester Institute of Technology: “Hyperspectral monitoring of chemically sensitive
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*50 Department of Biological Sciences, Murray State University: “Benefits of hyperspectral
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