

Contents

About the Special Issue Editors	vii
Preface to "Image Processing in Agriculture and Forestry"	ix
Gonzalo Pajares, Iván García-Santillán, Yerania Campos, Martín Montalvo, José Miguel Guerrero, Luis Emmi, Juan Romeo, María Guijarro and Pablo Gonzalez-de-Santos Machine-Vision Systems Selection for Agricultural Vehicles: A Guide Reprinted from: <i>J. Imaging</i> 2016 , 2, 34, doi: 10.3390/jimaging2040034	
	1
Volker Dworak, Michael Huebner and Joern Selbeck Precise Navigation of Small Agricultural Robots in Sensitive Areas with a Smart Plant Camera Reprinted from: <i>J. Imaging</i> 2015 , 1, 115–133, doi: 10.3390/jimaging1010115	
	33
Kim Arild Steen, Peter Christiansen, Henrik Karstoft and Rasmus Nyholm Jørgensen Using Deep Learning to Challenge Safety Standard for Highly Autonomous Machines in Agriculture Reprinted from: <i>J. Imaging</i> 2016 , 2, 6, doi: 10.3390/jimaging2010006	
	50
Zhijiang Ni, Thomas F. Burks and Won Suk Lee 3D Reconstruction of Plant/Tree Canopy Using Monocular and Binocular Vision Reprinted from: <i>J. Imaging</i> 2016 , 2, 28, doi: 10.3390/jimaging2040028	
	58
Ryan Horton, Esteban Cano, Duke Bulanon and Esmaeil Fallahi Peach Flower Monitoring Using Aerial Multispectral Imaging Reprinted from: <i>J. Imaging</i> 2017 , 3, 2, doi: 10.3390/jimaging3010002	
	72
Hong Cheng, Lutz Damerow, Yurui Sun and Michael Blanke Early Yield Prediction Using Image Analysis of Apple Fruit and Tree Canopy Features with Neural Networks Reprinted from: <i>J. Imaging</i> 2017 , 3, 6, doi: 10.3390/jimaging3010006	
	82
Martyna A. Stelmaszczuk-Górska, Pedro Rodriguez-Veiga, Nicolas Ackermann, Christian Thiel, Heiko Balzter and Christiane Schmullius Non-Parametric Retrieval of Aboveground Biomass in Siberian Boreal Forests with ALOS PALSAR Interferometric Coherence and Backscatter Intensity Reprinted from: <i>J. Imaging</i> 2016 , 2, 1, doi: 10.3390/jimaging2010001	
	95
Jose Batz, Mario A. Méndez-Dorado and J. Alex Thomasson Imaging for High-Throughput Phenotyping in Energy Sorghum Reprinted from: <i>J. Imaging</i> 2016 , 2, 4, doi: 10.3390/jimaging2010004	
	119
Jonathan Van Beek, Laurent Tits, Ben Somers, Tom Deckers, Pieter Janssens and Pol Coppin Viewing Geometry Sensitivity of Commonly Used Vegetation Indices towards the Estimation of Biophysical Variables in Orchards Reprinted from: <i>J. Imaging</i> 2016 , 2, 15, doi: 10.3390/jimaging2020015	
	132
Muditha K. Heenkenda, Stefan W. Maier and Karen E. Joyce Estimating Mangrove Biophysical Variables Using WorldView-2 Satellite Data: Rapid Creek, Northern Territory, Australia Reprinted from: <i>J. Imaging</i> 2016 , 2, 24, doi: 10.3390/jimaging2030024	
	153

Heather Grybas and Russell G. Congalton

Land Cover Change Image Analysis for Assateague Island National Seashore Following Hurricane Sandy

Reprinted from: *J. Imaging* **2015**, 1, 85–114, doi: 10.3390/jimaging1010085 172

Matt Aitkenhead, Malcolm Coull, Richard Gwatkin and David Donnelly

Automated Soil Physical Parameter Assessment Using Smartphone and Digital Camera Imagery

Reprinted from: *J. Imaging* **2016**, 2, 35, doi: 10.3390/jimaging2040035 199