

Lauri Markelin

List of Publications by Year in descending order

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papers

971
citations

471371

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24
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37
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1325
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating Biomass and Nitrogen Amount of Barley and Grass Using UAV and Aircraft Based Spectral and Photogrammetric 3D Features. <i>Remote Sensing</i> , 2018, 10, 1082.	1.8	113
2	Automatic Detection of Buildings and Changes in Buildings for Updating of Maps. <i>Remote Sensing</i> , 2010, 2, 1217-1248.	1.8	103
3	Digital Airborne Photogrammetry – A New Tool for Quantitative Remote Sensing? – A State-of-the-Art Review On Radiometric Aspects of Digital Photogrammetric Images. <i>Remote Sensing</i> , 2009, 1, 577-605.	1.8	82
4	Machine learning estimators for the quantity and quality of grass swards used for silage production using drone-based imaging spectrometry and photogrammetry. <i>Remote Sensing of Environment</i> , 2020, 246, 111830.	4.6	60
5	Direct Reflectance Measurements from Drones: Sensor Absolute Radiometric Calibration and System Tests for Forest Reflectance Characterization. <i>Sensors</i> , 2018, 18, 1417.	2.1	56
6	HYPERSPETRAL REFLECTANCE SIGNATURES AND POINT CLOUDS FOR PRECISION AGRICULTURE BY LIGHT WEIGHT UAV IMAGING SYSTEM. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, 1-7, 353-358.	0.0	55
7	Geometric test field calibration of digital photogrammetric sensors. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2006, 60, 387-399.	4.9	48
8	A Permanent Test Field for Digital Photogrammetric Systems. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 95-106.	0.3	44
9	Influence of solar elevation in radiometric and geometric performance of multispectral photogrammetry. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012, 67, 13-26.	4.9	35
10	A Process for Radiometric Correction of UAV Image Blocks. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2012, 2012, 115-127.	1.2	34
11	Characterizing Seedling Stands Using Leaf-Off and Leaf-On Photogrammetric Point Clouds and Hyperspectral Imagery Acquired from Unmanned Aerial Vehicle. <i>Forests</i> , 2019, 10, 415.	0.9	33
12	Technical notes: A detailed study for the provision of measurement uncertainty and traceability for goniospectrometers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 376-390.	1.1	31
13	Tree species identification in aerial image data using directional reflectance signatures. <i>Silva Fennica</i> , 2014, 48, .	0.5	25
14	Bidirectional reflectance spectrometry of gravel at the Sjätkulla test field. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2007, 62, 434-446.	4.9	24
15	A Novel Tilt Correction Technique for Irradiance Sensors and Spectrometers On-Board Unmanned Aerial Vehicles. <i>Remote Sensing</i> , 2018, 10, 2068.	1.8	22
16	Radiometric Calibration and Characterization of Large-format Digital Photogrammetric Sensors in a Test Field. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 1487-1500.	0.3	21
17	Direct reflectance transformation methodology for drone-based hyperspectral imaging. <i>Remote Sensing of Environment</i> , 2021, 266, 112691.	4.6	21
18	Messung von gerichteten Reflektanzen bei hyperspektralen Flächenkameras auf UAVs. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2014, 2014, 175-188.	1.2	19

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19	Atmospheric Correction Performance of Hyperspectral Airborne Imagery over a Small Eutrophic Lake under Changing Cloud Cover. <i>Remote Sensing</i> , 2017, 9, 2.	1.8	18
20	USING MULTITEMPORAL HYPER- AND MULTISPECTRAL UAV IMAGING FOR DETECTING BARK BEETLE INFESTATION ON NORWAY SPRUCE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B3-2020, 429-434.	0.2	18
21	Analysis of Properties of Reflectance Reference Targets for Permanent Radiometric Test Sites of High Resolution Airborne Imaging Systems. <i>Remote Sensing</i> , 2010, 2, 1892-1917.	1.8	14
22	Radiometric stability assessment of an airborne photogrammetric sensor in a test field. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2010, 65, 409-421.	4.9	13
23	Autonomous hyperspectral UAS photogrammetry for environmental monitoring applications. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-1, 155-159.	0.2	12
24	Assessment of Radiometric Correction Methods for ADS40 Imagery. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2012, 2012, 251-266.	1.2	11
25	UAV-based hyperspectral monitoring of small freshwater area. <i>Proceedings of SPIE</i> , 2014, , .	0.8	9
26	ASSESSMENT OF RGB AND HYPERSPECTRAL UAV REMOTE SENSING FOR GRASS QUANTITY AND QUALITY ESTIMATION. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W13, 489-494.	0.2	8
27	Geometric processing workflow for vertical and oblique hyperspectral frame images collected using UAV. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-3, 205-210.	0.2	8
28	Flat-field calibration method for hyperspectral frame cameras. <i>Metrologia</i> , 2019, 56, 055001.	0.6	7
29	OPTIMIZING RADIOMETRIC PROCESSING AND FEATURE EXTRACTION OF DRONE BASED HYPERSPECTRAL FRAME FORMAT IMAGERY FOR ESTIMATION OF YIELD QUANTITY AND QUALITY OF A GRASS SWARD. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3, 1305-1310.	0.2	7
30	ASSESSMENT OF VARIOUS REMOTE SENSING TECHNOLOGIES IN BIOMASS AND NITROGEN CONTENT ESTIMATION USING AN AGRICULTURAL TEST FIELD. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W3, 137-141.	0.2	7
31	Calibrating and validating multispectral 3D imaging systems at a permanent test site – case study with an Intergraph DMC. <i>Photogrammetric Record</i> , 2011, 26, 229-249.	0.4	3
32	Calibration and validation of hyperspectral imagery using a permanent test field. , 2013, , .		3
33	METHODOLOGY FOR DIRECT REFLECTANCE MEASUREMENT FROM A DRONE: SYSTEM DESCRIPTION, RADIOMETRIC CALIBRATION AND LATEST RESULTS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-1, 283-288.	0.2	3
34	RADIOMETRIC CORRECTION OF MULTITEMPORAL HYPERSPECTRAL UAS IMAGE MOSAICS OF SEEDLING STANDS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W3, 113-118.	0.2	2
35	Hemispherical directional reflectance factor using UAV and a hyperspectral camera, validation and crop field test. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
36	METROLOGY OF IMAGE PROCESSING IN SPECTRAL REFLECTANCE MEASUREMENT BY UAV. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-3/W1, 53-58.	0.2	1