

# Antonio M G Tommaselli

## List of Publications by Year in descending order

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104  
papers

1,397  
citations

471371

17  
h-index

395590

33  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Individual Tree Detection and Classification with UAV-Based Photogrammetric Point Clouds and Hyperspectral Imaging. <i>Remote Sensing</i> , 2017, 9, 185.	1.8	307
2	Comparative performance of convolutional neural network, weighted and conventional support vector machine and random forest for classifying tree species using hyperspectral and photogrammetric data. <i>GIScience and Remote Sensing</i> , 2020, 57, 369-394.	2.4	91
3	Tree Species Classification in a Highly Diverse Subtropical Forest Integrating UAV-Based Photogrammetric Point Cloud and Hyperspectral Data. <i>Remote Sensing</i> , 2019, 11, 1338.	1.8	86
4	Assessing Biodiversity in Boreal Forests with UAV-Based Photogrammetric Point Clouds and Hyperspectral Imaging. <i>Remote Sensing</i> , 2018, 10, 338.	1.8	61
5	Band registration of tuneable frame format hyperspectral UAV imagers in complex scenes. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 134, 96-109.	4.9	60
6	A Novel Deep Learning Method to Identify Single Tree Species in UAV-Based Hyperspectral Images. <i>Remote Sensing</i> , 2020, 12, 1294.	1.8	60
7	Automatic shadow segmentation in aerial color images. , 0, , .		56
8	Mapping Mosaic Virus in Sugarcane Based on Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 740-748.	2.3	38
9	Geometric Calibration of a Hyperspectral Frame Camera. <i>Photogrammetric Record</i> , 2016, 31, 325-347.	0.4	37
10	Generating Virtual Images from Oblique Frames. <i>Remote Sensing</i> , 2013, 5, 1875-1893.	1.8	35
11	Generating a hyperspectral digital surface model using a hyperspectral 2D frame camera. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 147, 345-360.	4.9	35
12	Evaluation of Hyperspectral Multitemporal Information to Improve Tree Species Identification in the Highly Diverse Atlantic Forest. <i>Remote Sensing</i> , 2020, 12, 244.	1.8	33
13	Radiometric block adjustment of hyperspectral image blocks in the Brazilian environment. <i>International Journal of Remote Sensing</i> , 2018, 39, 4910-4930.	1.3	32
14	Exterior orientation of CBERS-2B imagery using multi-feature control and orbital data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 79, 219-225.	4.9	29
15	Photogrammetric measurement of tree stems from vertical fisheye images. <i>Scandinavian Journal of Forest Research</i> , 2017, 32, 737-747.	0.5	22
16	A Backpack-Mounted Omnidirectional Camera with Off-the-Shelf Navigation Sensors for Mobile Terrestrial Mapping: Development and Forest Application. <i>Sensors</i> , 2018, 18, 827.	2.1	22
17	CALIBRATION OF PANORAMIC CAMERAS WITH CODED TARGETS AND A 3D CALIBRATION FIELD. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-3/W1, 137-142.	0.2	21
18	Identification of Successional Stages and Cover Changes of Tropical Forest Based on Digital Surface Model Analysis. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 5385-5397.	2.3	20

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19	Detection and mapping of trees infected with citrus gummosis using UAV hyperspectral data. Computers and Electronics in Agriculture, 2021, 188, 106298.	3.7	18
20	Successional stages and their evolution in tropical forests using multi-temporal photogrammetric surface models and superpixels. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 548-558.	4.9	17
21	Geometric model and assessment of a dual-fisheye imaging system. Photogrammetric Record, 2018, 33, 243-263.	0.4	16
22	Automatic Orientation of Multi-Scale Terrestrial Images for 3D Reconstruction. Remote Sensing, 2014, 6, 3020-3040.	1.8	15
23	Calibration of a catadioptric omnidirectional vision system with conic mirror. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 113, 97-105.	4.9	15
24	Determination of the Indirect Orientation of Orbital PUSHBROOM Images Using Control Straight Lines. Photogrammetric Record, 2010, 25, 159-179.	0.4	14
25	A low-cost 3D reconstruction system using a single-shot projection of a pattern matrix. Photogrammetric Record, 2011, 26, 91-110.	0.4	13
26	EXPERIMENTAL ASSESSMENT OF TECHNIQUES FOR FISHEYE CAMERA CALIBRATION. Boletim De Ciencias Geodesicas, 2015, 21, 637-651.	0.2	13
27	AUTOMATIC SHADOW DETECTION IN AERIAL AND TERRESTRIAL IMAGES. Boletim De Ciencias Geodesicas, 2017, 23, 578-590.	0.2	13
28	Development and Assessment of a Data Set Containing Frame Images and Dense Airborne Laser Scanning Point Clouds. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 192-196.	1.4	12
29	Bundle Block Adjustment of CBERS-2B HRC Imagery Combining Control Points and Lines. Photogrammetrie, Fernerkundung, Geoinformation, 2012, 2012, 129-139.	1.2	11
30	Data Product Specification Proposal for Architectural Heritage Documentation with Photogrammetric Techniques: A Case Study in Brazil. Remote Sensing, 2015, 7, 13337-13363.	1.8	11
31	Monitoring Bank Erosion in Hydroelectric Reservoirs With Mobile Laser Scanning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5524-5532.	2.3	10
32	UTILIZAÇÃO DE ALVOS CODIFICADOS DO TIPO ARUCO NA AUTOMAÇÃO DO PROCESSO DE CALIBRAÇÃO DE CÂMERAS. Boletim De Ciencias Geodesicas, 2014, 20, 626-646.	0.2	8
33	Vertical Optical Scanning with Panoramic Vision for Tree Trunk Reconstruction. Sensors, 2017, 17, 2791.	2.1	8
34	Accurate Calibration Scheme for a Multi-Camera Mobile Mapping System. Remote Sensing, 2019, 11, 2778.	1.8	8
35	Identification of Significant LiDAR Metrics and Comparison of Machine Learning Approaches for Estimating Stand and Diversity Variables in Heterogeneous Brazilian Atlantic Forest. Remote Sensing, 2021, 13, 2444.	1.8	8
36	EVALUATING A CONVOLUTIONAL NEURAL NETWORK FOR FEATURE EXTRACTION AND TREE SPECIES CLASSIFICATION USING UAV-HYPERSPECTRAL IMAGES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-3-2020, 193-199.	0.0	7

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37	A STUDY ON THE VARIATIONS OF INNER ORIENTATION PARAMETERS OF A HYPERSPECTRAL FRAME CAMERA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1, 429-436.	0.2	7
38	DETECTING CITRUS HUANGLONGBING IN BRAZILIAN ORCHARDS USING HYPERSPECTRAL AERIAL IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1881-1886.	0.2	7
39	Analysis of trends and changes in the successional trajectories of tropical forest using the Landsat NDVI time series. Remote Sensing Applications: Society and Environment, 2021, 24, 100622.	0.8	6
40	Monitoring marginal erosion in hydroelectric reservoirs with terrestrial mobile laser scanner. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 589-596.	0.2	6
41	USING RELATIVE ORIENTATION CONSTRAINTS TO PRODUCE VIRTUAL IMAGES FROM OBLIQUE FRAMES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXIX-B1, 61-66.	0.2	6
42	ORIENTATION AND CALIBRATION REQUIREMENTS FOR HYPERPECTRAL IMAGING USING UAVs: A CASE STUDY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W4, 109-115.	0.2	6
43	Reconstruction of Cylindrical Surfaces Using Digital Image Correlation. Sensors, 2018, 18, 4183.	2.1	5
44	Bundle Adjustment of a Time-Sequential Spectral Camera Using Polynomial Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9252-9263.	2.7	5
45	A Fisheye Image Matching Method Boosted by Recursive Search Space for Close Range Photogrammetry. Remote Sensing, 2019, 11, 1404.	1.8	5
46	UAV-BASED PHOTOGRAMMETRIC POINT CLOUDS AND HYPERSPECTRAL IMAGING FOR MAPPING BIODIVERSITY INDICATORS IN BOREAL FORESTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W3, 171-175.	0.2	5
47	GEOMETRIC AND REFLECTANCE SIGNATURE CHARACTERIZATION OF COMPLEX CANOPIES USING HYPERSPECTRAL STEREOSCOPIC IMAGES FROM UAV AND TERRESTRIAL PLATFORMS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 77-82.	0.2	5
48	MULTI-SCALE MATCHING FOR THE AUTOMATIC LOCATION OF CONTROL POINTS IN LARGE SCALE AERIAL IMAGES USING TERRESTRIAL SCENES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W1, 27-31.	0.2	5
49	A LIGHTWEIGHT UAV-BASED LASER SCANNING SYSTEM FOR FOREST APPLICATION. Boletim De Ciencias Geodesicas, 2018, 24, 318-334.	0.2	4
50	Orientação de imagens CBERS-2B usando o modelo rigoroso de colinearidade com dados orbitais. Boletim De Ciencias Geodesicas, 2011, 17, 401-416.	0.2	4
51	EXTERIOR ORIENTATION OF HYPERSPECTRAL FRAME IMAGES COLLECTED WITH UAV FOR FOREST APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W4, 45-50.	0.2	4
52	Enhancement of Terrestrial Surface Features on High Spatial Resolution Multispectral Aerial Images. , 2010, , .		3
53	Using Hyperspectral Frame Images from Unmanned Airborne Vehicle for Detailed Measurement of Boreal Forest 3D Structure. IOP Conference Series: Earth and Environmental Science, 2016, 44, 042029.	0.2	3
54	Refining the Interior Orientation of a Hyperspectral Frame Camera With Preliminary Bands Co-Registration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2097-2106.	2.3	3

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55	COMPARISON OF PIXEL AND REGION-BASED APPROACHES FOR TREE SPECIES MAPPING IN ATLANTIC FOREST USING HYPERSPECTRAL IMAGES ACQUIRED BY UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1875-1880.	0.2	3
56	SHADOW DETECTION IN HYPERSPECTRAL IMAGES ACQUIRED BY UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 371-377.	0.2	3
57	EVALUATION OF MULTIPLE LINEAR REGRESSION MODEL TO OBTAIN DBH OF TREES USING DATA FROM A LIGHTWEIGHT LASER SCANNING SYSTEM ON-BOARD A UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 449-454.	0.2	3
58	TIME SERIES OF IMAGES TO IMPROVE TREE SPECIES CLASSIFICATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W3, 123-128.	0.2	3
59	ORIENTATION AND CALIBRATION REQUIREMENTS FOR HYPERPECTRAL IMAGING USING UAVs: A CASE STUDY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W4, 109-115.	0.2	3
60	A feasibility study on the measurement of tree trunks in forests using multi-scale vertical images. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 87-92.	0.2	3
61	Automatic absolute orientation of scanned aerial photographs. , 0, , .		2
62	Locating Control Points In Aerial Images With A Multi-scale Approach Based On Terrestrial Image Patches. Photogrammetric Record, 2015, 30, 63-81.	0.4	2
63	Refining the Geometric Calibration of a Hiperspectral Frame Camera with Preliminary Bands Coregistration. , 2018, , .		2
64	A STUDY ON THE EFFECTS OF VIEWING ANGLE VARIATION IN SUGARCANE RADIOMETRIC MEASURES. Boletim De Ciencias Geodesicas, 2018, 24, 85-97.	0.2	2
65	3D Reconstruction of Citrus Trees Using an Omnidirectional Optical System. , 2020, , .		2
66	ADAPTIVE WEIGHTING OF IMAGE OBSERVATIONS FOR SELF-CALIBRATION WITH FISHEYE IMAGES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-1-2021, 81-87.	0.0	2
67	Forest cover change analysis based on temporal gradients of the vertical structure and density. Ecological Indicators, 2021, 126, 107597.	2.6	2
68	USING VERTICAL PANORAMIC IMAGES TO RECORD A HISTORIC CEMETERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W2, 641-646.	0.2	2
69	ESTIMATING EXTERIOR ORIENTATION PARAMETERS OF HYPERSPECTRAL BANDS BASED ON POLYNOMIAL MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W3, 19-25.	0.2	2
70	Accuracy Improvements in the Orientation of ALOS PRISM Images Using IOP Estimation and UCL Kepler Platform Model. Remote Sensing, 2017, 9, 634.	1.8	1
71	MEASURING PHOTOGRAMMETRIC CONTROL TARGETS IN LOW CONTRAST IMAGES. Boletim De Ciencias Geodesicas, 2018, 24, 171-185.	0.2	1
72	IMPACT OF REDUCTION OF RADIOMETRIC RESOLUTION IN HYPERSPECTRAL IMAGES ACQUIRED OVER FOREST FIELD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1, 301-305.	0.2	1

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73	GEOMETRIC PERFORMANCE OF A CAMERA WITH SINGLE SENSOR AND MULTIPLE HEADS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B1-2020, 389-396.	0.2	1
74	A LIGHT-WEIGHT LASER SCANNER FOR UAV APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 711-715.	0.2	1
75	Uso de sombras na correção do efeito vinhete. Boletim De Ciencias Geodesicas, 2014, 20, 100-116.	0.2	1
76	A mobile platform with a catadioptric sensor. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1, 407-413.	0.2	1
77	TREE STEM RECONSTRUCTION USING VERTICAL FISHEYE IMAGES: A PRELIMINARY STUDY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 627-632.	0.2	1
78	IEEE GRSS Brazil Chapter: Status and Activities in 2019 [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 144-151.	4.9	1
79	THE USE OF A WIDE FOV LASER SCANNING SYSTEM AND A SLAM ALGORITHM FOR MOBILE APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B1-2022, 181-187.	0.2	1
80	Accuracy assessment of a photogrammetric close-range reconstruction system. , 0, , .		0
81	<title>Strategy to detect ground control in digital images</title>. , 1998, 3371, 436.		0
82	Semi-Automatic Modeling of Buildings from Digital Surface Models. Cartography and Geographic Information Science, 2004, 31, 179-187.	1.4	0
83	Avaliação de uma técnica para geração de modelos digitais de superfície utilizando múltiplas imagens. Boletim De Ciencias Geodesicas, 2014, 20, 257-278.	0.2	0
84	Automatic Measurement of Control Points for Aerial Image Orientation. Photogrammetric Record, 2017, 32, 141-159.	0.4	0
85	Geometric Filtering of Matches Between Points in Bands of Hyperspectral Cubes. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 492-496.	1.4	0
86	Orientação Exterior de Imagens CBERS-4/PAN Utilizando Modelos Rigorosos. Revista Brasileira De Cartografia, 2021, 73, 329-339.	0.1	0
87	Registro semiautomático entre imagens infravermelhas e RGB coletadas por um par de câmeras digitais. Boletim De Ciencias Geodesicas, 2011, 17, 53-74.	0.2	0
88	Sincronismo de dispositivos para o georreferenciamento de imagens digitais. Boletim De Ciencias Geodesicas, 2011, 17, 317-339.	0.2	0
89	A aula inaugural do curso de geometria aplicada às artes no conservatório imperial de artes e ofícios. (Paris, Janeiro de 1865). Boletim De Ciencias Geodesicas, 2013, 19, 511-524.	0.2	0
90	A semi-automatic method for indirect orientation of aerial images using ground control lines extracted from airborne laser scanner data. Revue Francaise De Photogrammetrie Et De Teledetection, 2012, , 53-61.	0.2	0

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91	ORIENTAÇÃO E ORTORRETIFICAÇÃO DE IMAGENS TERRESTRES NADIRAIS. Boletim De Ciencias Geodesicas, 2015, 21, 149-168.	0.2	0
92	ANÁLISE COMPARATIVA DOS RESULTADOS OBTIDOS PELOS MÉTODOS DE CALIBRAÇÃO DE CAMPO TRIDIMENSIONAL E BIDIMENSIONAL. Boletim De Ciencias Geodesicas, 2015, 21, 308-328.	0.2	0
93	ANALYSIS OF THE RADIOMETRIC RESPONSE OF ORANGE TREE CROWN IN HYPERSPECTRAL UAV IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W3, 73-79.	0.2	0
94	Geometrical Correction of CBERS-4/PAN Images with Generalized Models Using as Reference National System of Land Management Data. Anuario Do Instituto De Geociencias, 2018, 41, 358-368.	0.2	0
95	PERFORMANCE EVALUATION OF SEQUENTIAL BAND ORIENTATION BY POLYNOMIAL MODELS IN HYPERSPECTRAL CUBES COLLECTED WITH UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1625-1629.	0.2	0
96	A FEASIBILITY STUDY ON INCREMENTAL BUNDLE ADJUSTMENT WITH FISHEYE IMAGES AND LOW-COST SENSORS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W18, 167-171.	0.2	0
97	TIE POINT GENERATION IN HYPERSPECTRAL CUBES FOR ORIENTATION WITH POLYNOMIAL MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W18, 7-12.	0.2	0
98	Canopy Height Model Generation from Historical Images for Monitoring of Regeneration in Atlantic Rain Forest. Anuario Do Instituto De Geociencias, 2019, 42, 206-218.	0.2	0
99	Calibração da Plataforma de um Sistema de Visão Omnidirecional composto por uma Câmera e um Espelho Cônico. Revista Brasileira De Cartografia, 2020, 72, 270-279.	0.1	0
100	3D RECONSTRUCTION OF CITRUS TREES USING AN OMNIDIRECTIONAL OPTICAL SYSTEM. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W12-2020, 7-12.	0.2	0
101	SPECTRAL DIFFERENCES OF TREE SPECIES BELONGING TO ATLANTIC FOREST OBTAINED FROM UAV HYPERSPECTRAL IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W12-2020, 49-54.	0.2	0
102	Geometric calibration of a hyperspectral frame camera with simultaneous determination of sensors misalignment. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2022, 4, 100015.	1.3	0
103	Structure and tree diversity of an inland Atlantic Forest – A case study of Ponte Branca Forest Remnant, Brazil. Indonesian Journal of Geography, 2022, 54, .	0.2	0
104	RADIOMETRIC CALIBRATION PERFORMANCE OF A MULTISPECTRAL CAMERA WITH A SINGLE SENSOR AND MULTIPLE HEADS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B1-2022, 17-22.	0.2	0