

# Lu Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154  
papers

1,858  
citations

22  
h-index

36  
g-index

196  
ext. papers

2,429  
ext. citations

4  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
154	Validation and refinement of cropland data layer using a spatial-temporal decision tree algorithm.. <i>Scientific Data</i> , <b>2022</b> , 9, 63	8.2	1
153	Bibliometric Analysis of OGC Specifications between 1994 and 2020 Based on Web of Science (WoS). <i>ISPRS International Journal of Geo-Information</i> , <b>2022</b> , 11, 251	2.9	
152	WaterSmart-GIS: A Web Application of a Data Assimilation Model to Support Irrigation Research and Decision Making. <i>ISPRS International Journal of Geo-Information</i> , <b>2022</b> , 11, 271	2.9	0
151	Geoscience model service integrated workflow for rainstorm waterlogging analysis. <i>International Journal of Digital Earth</i> , <b>2021</b> , 14, 851-873	3.9	1
150	Deriving Non-Cloud Contaminated Sentinel-2 Images with RGB and Near-Infrared Bands from Sentinel-1 Images Based on a Conditional Generative Adversarial Network. <i>Remote Sensing</i> , <b>2021</b> , 13, 1512	5	4
149	Variations in precipitation extremes in the arid and semi-arid regions of China. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 1542-1554	3.5	7
148	Estimation of Soil Salinity Under Various Soil Moisture Conditions Using Laboratory Based Thermal Infrared Spectra <b>2021</b> , 49, 959-969		0
147	Spark-based adaptive Mapreduce data processing method for remote sensing imagery. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 191-207	3.1	2
146	Remote Sensing Based Rapid Assessment of Flood Crop Damage Using Novel Disaster Vegetation Damage Index (DVDI). <i>International Journal of Disaster Risk Science</i> , <b>2021</b> , 12, 90-110	4.6	9
145	Impacts of Soil Moisture on Crop Health: A Remote Sensing Perspective <b>2021</b> ,		1
144	Estimating Crop LAI Using Spectral Feature Extraction and the Hybrid Inversion Method. <i>Remote Sensing</i> , <b>2020</b> , 12, 3534	5	8
143	Estimation of GDP Using Deep Learning With NPP-VIIRS Imagery and Land Cover Data at the County Level in CONUS. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 13, 1400-1415	4.7	9
142	Deep Learning Classification for Crop Types in North Dakota. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 13, 2200-2213	4.7	16
141	Toward a Standardized Encoding of Remote Sensing Geo-Positioning Sensor Models. <i>Remote Sensing</i> , <b>2020</b> , 12, 1530	5	0
140	Influence of Different Bandwidths on LAI Estimation Using Vegetation Indices. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 13, 1494-1502	4.7	6
139	Exploring the Spatial Characteristics of Typhoon-Induced Vegetation Damages in the Southeast Coastal Area of China from 2000 to 2018. <i>Remote Sensing</i> , <b>2020</b> , 12, 1692	5	6
138	Geoweaver: Advanced Cyberinfrastructure for Managing Hybrid Geoscientific AI Workflows. <i>ISPRS International Journal of Geo-Information</i> , <b>2020</b> , 9, 119	2.9	7

137	Can Terrestrial Water Storage Dynamics be Estimated From Climate Anomalies?. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2019EA000959	3.1	6
136	Transfer Learning for Crop classification with Cropland Data Layer data (CDL) as training samples. <i>Science of the Total Environment</i> , <b>2020</b> , 733, 138869	10.2	20
135	Community venue exposure risk estimator for the COVID-19 pandemic. <i>Health and Place</i> , <b>2020</b> , 66, 102450	4.0	11
134	A simple approach to estimate coastal soil salinity using digital camera images. <i>Soil Research</i> , <b>2020</b> , 58, 737	1.8	2
133	Estimation of Tree Height by Combining Low Density Airborne LiDAR Data and Images Using the 3D Tree Model: A Case Study in a Subtropical Forest in China. <i>Forests</i> , <b>2020</b> , 11, 1252	2.8	1
132	Advanced Cyberinfrastructure for Agricultural Drought Monitoring <b>2019</b> ,		4
131	Global vegetative drought trend and variability analysis from long-term remotely sensed data <b>2019</b> ,		2
130	Study on Temporal and Spatial Adaptability of Crop Classification Models <b>2019</b> ,		1
129	Crop Field Boundary Delineation using Historical Crop Rotation Pattern <b>2019</b> ,		3
128	Cloud Environment for Disseminating NASS Cropland Data Layer <b>2019</b> ,		3
127	Soil Column Sample Height Influences Soil Spectral Reflectance in Laboratory Experiment <b>2019</b> , 47, 1187-1196		1
126	Detecting spatio-temporal changes of arable land and construction land in the Beijing-Tianjin corridor during 2000-2015. <i>Journal of Chinese Geography</i> , <b>2019</b> , 29, 702-718	3.7	11
125	In-Season Major Crop-Type Identification for US Cropland from Landsat Images Using Crop-Rotation Pattern and Progressive Data Classification. <i>Agriculture (Switzerland)</i> , <b>2019</b> , 9, 17	3	10
124	Investigating the Long-Term Spatial and Temporal Characteristics of Vegetative Drought in the Contiguous United States. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 836-848	4.7	9
123	Distributed Geoscience Algorithm Integration Based on OWS Specifications: A Case Study of the Extraction of a River Network. <i>ISPRS International Journal of Geo-Information</i> , <b>2019</b> , 8, 12	2.9	0
122	County-Level Soybean Yield Prediction Using Deep CNN-LSTM Model. <i>Sensors</i> , <b>2019</b> , 19,	3.8	73
121	Extracting Trusted Pixels from Historical Cropland Data Layer Using Crop Rotation Patterns: A Case Study in Nebraska, USA <b>2019</b> ,		2
120	Crop Growth Condition Assessment at County Scale Based on Heat-Aligned Growth Stages. <i>Remote Sensing</i> , <b>2019</b> , 11, 2439	5	7

119	Spatiotemporal landscape pattern change under rapid urbanization. <i>Journal of Applied Remote Sensing</i> , <b>2019</b> , 13, 1	1.4	6
118	Archiving and Access Systems for Remote Sensing <b>2019</b> , 451-629		
117	An Enhanced Deep Convolutional Model for Spatiotemporal Image Fusion. <i>Remote Sensing</i> , <b>2019</b> , 11, 2898	5	33
116	High-Resolution Optical Remote Sensing Image Registration via Reweighted Random Walk based Hyper-Graph Matching. <i>Remote Sensing</i> , <b>2019</b> , 11, 2841	5	4
115	Selection of Landsat 8 OLI Band Combinations for Land Use and Land Cover Classification <b>2019</b> ,		2
114	Using long short-term memory recurrent neural network in land cover classification on Landsat and Cropland data layer time series. <i>International Journal of Remote Sensing</i> , <b>2019</b> , 40, 593-614	3.1	49
113	CyberConnector: a service-oriented system for automatically tailoring multisource Earth observation data to feed Earth science models. <i>Earth Science Informatics</i> , <b>2018</b> , 11, 1-17	2.5	16
112	Phenological metrics-based crop classification using HJ-1 CCD images and Landsat 8 imagery. <i>International Journal of Digital Earth</i> , <b>2018</b> , 11, 1219-1240	3.9	7
111	Deriving High Spatiotemporal Remote Sensing Images Using Deep Convolutional Network. <i>Remote Sensing</i> , <b>2018</b> , 10, 1066	5	54
110	Large-scale subpixel mapping of landcover from MODIS imagery using the improved spatial attraction model. <i>Journal of Applied Remote Sensing</i> , <b>2018</b> , 12, 1	1.4	4
109	DVDI: A New Remotely Sensed Index for Measuring Vegetation Damage Caused by Natural Disasters <b>2018</b> ,		4
108	Estimation of Leaf Nitrogen Content in Wheat Using New Hyperspectral Indices and a Random Forest Regression Algorithm. <i>Remote Sensing</i> , <b>2018</b> , 10, 1940	5	52
107	Impact of Climate Change on Soil Salinity: A Remote Sensing Based Investigation in Coastal Bangladesh <b>2018</b> ,		2
106	Land Use and Land Cover Classification for Bangladesh 2005 on Google Earth Engine <b>2018</b> ,		4
105	Clustering Indian Ocean Tropical Cyclone Tracks by the Standard Deviation Ellipse. <i>Climate</i> , <b>2018</b> , 6, 39	3.1	9
104	Object-Based Plastic-Mulched Landcover Extraction Using Integrated Sentinel-1 and Sentinel-2 Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 1820	5	29
103	Impacts of land use and socioeconomic patterns on urban heat Island. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 3445-3465	3.1	21
102	Landslide initiation and runout susceptibility modeling in the context of hill cutting and rapid urbanization: a combined approach of weights of evidence and spatial multi-criteria. <i>Journal of Mountain Science</i> , <b>2017</b> , 14, 1919-1937	2.1	31

101	Building robust geospatial web services for agricultural information extraction and sharing <b>2017,</b>		3
100	Integrating OGC Web Processing Service with cloud computing environment for Earth Observation data <b>2017,</b>		3
99	Long-term spatial and temporal variations of vegetative drought based on vegetation condition index in China. <i>Ecosphere</i> , <b>2017</b> , 8, e01919	3.1	38
98	The state of the art of spaceborne remote sensing in flood management. <i>Natural Hazards</i> , <b>2017</b> , 85, 1223-124860		
97	Establish cyberinfrastructure to facilitate agricultural drought monitoring <b>2017,</b>		2
96	Developing geospatial Web service and system for SMAP soil moisture monitoring <b>2017,</b>		3
95	Extract flood duration from Dartmouth Flood Observatory flood product <b>2017,</b>		2
94	Crop Fraction Layer (CFL) datasets derived through MODIS and LandSat for the continental US from year 2000-2016 <b>2017,</b>		3
93	Developing a Web service based application for demographic information modeling and analyzing <b>2017,</b>		3
92	Agriculture flood mapping with Soil Moisture Active Passive (SMAP) data: A case of 2016 Louisiana flood <b>2017,</b>		6
91	A New Spatial Attraction Model for Improving Subpixel Land Cover Classification. <i>Remote Sensing</i> , <b>2017</b> , 9, 360	5	18
90	Parallel Agent-as-a-Service (P-AaaS) Based Geospatial Service in the Cloud. <i>Remote Sensing</i> , <b>2017</b> , 9, 3825		6
89	Near-Real-Time OGC Catalogue Service for Geoscience Big Data. <i>ISPRS International Journal of Geo-Information</i> , <b>2017</b> , 6, 337	2.9	4
88	Estimating crop chlorophyll content with hyperspectral vegetation indices and the hybrid inversion method. <i>International Journal of Remote Sensing</i> , <b>2016</b> , 37, 2923-2949	3.1	59
87	Evaluation of assimilated SMOS Soil Moisture data for US cropland Soil Moisture monitoring <b>2016,</b>		3
86	Web service-based SMAP soil moisture data visualization, dissemination and analytics based on vegscape framwork <b>2016,</b>		6
85	Combining OGC WCS with SOAP to facilitate the retrieval of remote sensing imagery about agricultural fields <b>2016,</b>		3
84	Big data and its applications in agro-geoinformatics <b>2016,</b>		5

83	Embedding Pub/Sub mechanism into OGC web services to augment agricultural crop monitoring <b>2016,</b>		2
82	Coupling of Earth science models and earth observations through OGC interoperability specifications <b>2016,</b>		1
81	Rapid building detection using machine learning. <i>Applied Intelligence</i> , <b>2016</b> , 45, 443-457	4.9	16
80	Regression based corn yield assessment using MODIS based daily NDVI in Iowa state <b>2016,</b>		9
79	Comparison of selected noise reduction techniques for MODIS daily NDVI: An empirical analysis on corn and soybean <b>2016,</b>		6
78	Developing a web-based system for supervised classification of remote sensing images. <i>Geoinformatica</i> , <b>2016</b> , 20, 629-649	2.5	3
77	Investigating metrics of geospatial web services: The case of a CEOS federated catalog service for earth observation data. <i>Computers and Geosciences</i> , <b>2016</b> , 92, 1-8	4.5	9
76	A GeoPackage implementation of common map API on Google Maps and OpenLayers to manipulate agricultural data on mobile devices <b>2016,</b>		5
75	Developing a GeoPackage mobile app to support field operations in agriculture <b>2016,</b>		5
74	Delivery of agricultural drought information via web services. <i>Earth Science Informatics</i> , <b>2015</b> , 8, 527-538	2.5	8
73	The effect of corn/soybean rotation on the NDVI-based drought indicators: a case study in Iowa, USA, using Vegetation Condition Index. <i>GIScience and Remote Sensing</i> , <b>2015</b> , 52, 290-314	4.8	23
72	Adding Geospatial Data Provenance into SDI: A Service-Oriented Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 926-936	4.7	31
71	Land cover classification and change detection analysis using Landsat series and geospatial datasets in Nepal from 1980 to 2010 <b>2015,</b>		3
70	An efficient classification method of fully polarimetric SAR image based on polarimetric features and spatial features <b>2015,</b>		3
69	Remote sensing based crop growth stage estimation model <b>2015,</b>		3
68	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. <i>Remote Sensing of Environment</i> , <b>2015</b> , 165, 123-134	13.2	158
67	Special Section Guest Editorial: Remote Sensing and Sensor Networks for Promoting Agro-Geoinformatics. <i>Journal of Applied Remote Sensing</i> , <b>2015</b> , 8, 085101	1.4	
66	Threshold model for detecting transparent plastic-mulched landcover using moderate-resolution imaging spectroradiometer time series data: a case study in southern Xinjiang, China. <i>Journal of Applied Remote Sensing</i> , <b>2015</b> , 9, 097094	1.4	25

65	GIS-based detection of land use transformation in the Loess Plateau: A case study in Baota District, Shaanxi Province, China. <i>Journal of Chinese Geography</i> , <b>2015</b> , 25, 1467-1478	3.7	10
64	Cloud- and Agent-Based Geospatial Service Chain: A Case Study of Submerged Crops Analysis During Flooding of the Yangtze River Basin. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 1359-1370	4.7	17
63	A New Automatic Stratification Method for U.S. Agricultural Area Sampling Frame Construction Based on the Cropland Data Layer. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4317-4327	4.7	15
62	Web Service for extracting stream networks from DEM data. <i>Geo Journal</i> , <b>2014</b> , 79, 183-193	2.2	4
61	Foreword to the Special issue on Agro-Geoinformatics The Applications of Geoinformatics in Agriculture. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4315-4316	4.7	4
60	Relationships Between Remote-Sensing-Based Agricultural Drought Indicators and Root Zone Soil Moisture: A Comparative Study of Iowa. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4572-4580	4.7	14
59	A Decision-Tree Classifier for Extracting Transparent Plastic-Mulched Landcover from Landsat-5 TM Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4548-4558	4.7	60
58	Use of Geographically Weighted Regression Model for Exploring Spatial Patterns and Local Factors Behind NDVI-Precipitation Correlation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4530-4538	4.7	12
57	On crop rotation in calculating NDVI-based agricultural drought indicators <b>2014</b> ,		1
56	The influence of land cover-related changes on the NDVI-based satellite agricultural drought indices <b>2014</b> ,		4
55	Automation of Customized and Near-Real-Time Vegetation Condition Index Generation Through Cyberinfrastructure-Based Geoprocessing Workflows. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 4512-4522	4.7	14
54	A Web service based application serving vegetation condition indices for Flood Crop Loss Assessment <b>2013</b> ,		3
53	The use of geospatial workflows to support automatic detection of complex geospatial features from high resolution images <b>2013</b> ,		4
52	Remote-sensing-based flood damage estimation using crop condition profiles <b>2013</b> ,		7
51	Geoscience Data Provenance: An Overview. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 5065-5072	8.1	21
50	Implementation of Geospatial Data Provenance in a Web Service Workflow Environment With ISO 19115 and ISO 19115-2 Lineage Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 5082-5089	8.1	18
49	Introduction to the special issue on geoscience data provenance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 5062-5064	8.1	0
48	Exploring continuous corn cropping patterns and their relationship with geographic factors <b>2013</b> ,		1

47	Web service-based vegetation condition monitoring system - VegScape <b>2013</b> ,		13
46	The effect of land-cover change on vegetation greenness-based satellite agricultural drought indicators: a case study in the southwest climate division of Indiana, USA. <i>International Journal of Remote Sensing</i> , <b>2013</b> , 34, 6947-6968	3.1	14
45	Hidden Markov Models for Real-Time Estimation of Corn Progress Stages Using MODIS and Meteorological Data. <i>Remote Sensing</i> , <b>2013</b> , 5, 1734-1753	5	23
44	Automatic geospatial metadata generation for earth science virtual data products. <i>Geoinformatica</i> , <b>2012</b> , 16, 1-29	2.5	15
43	Building a Web-Services Based Geospatial Online Analysis System. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 1780-1792	4.7	10
42	Building an on-demand web service system for Global Agricultural Drought Monitoring and Forecasting <b>2012</b> ,		18
41	Towards Data and Sensor Planning Service for Coupling Earth Science Models and Earth Observations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 1628-1636	4.7	4
40	GEOSS Component and Service Registry: Design, Implementation and Lessons Learned. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 1678-1686	4.7	11
39	Geoprocessing on the Amazon cloud computing platform [AWS] <b>2012</b> ,		6
38	Service-oriented approach for geospatial feature discovery. <i>Earth Science Informatics</i> , <b>2012</b> , 5, 153-165	2.5	2
37	Semantic feature catalogue service <b>2012</b> ,		1
36	Ontology-supported complex feature discovery in a web service environment <b>2012</b> ,		2
35	The cloud computing for a dynamic agro-geoinformation processing <b>2012</b> ,		2
34	Global agricultural drought mapping: Results for the year 2011 <b>2012</b> ,		3
33	Vegetation index based technique for global agricultural drought monitoring <b>2011</b> ,		6
32	Vegetation condition indices for crop vegetation condition monitoring <b>2011</b> ,		15
31	Application of a Fast Linear Feature Detector to Road Extraction From Remotely Sensed Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2011</b> , 4, 626-631	4.7	35
30	An Efficient Method for Near-Real-Time On-Demand Retrieval of Remote Sensing Observations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2011</b> , 4, 615-625	4.7	15



29	Integrating semantic web technologies and geospatial catalog services for geospatial information discovery and processing in cyberinfrastructure. <i>Geoinformatica</i> , <b>2011</b> , 15, 273-303	2.5	54
28	A Flexible Data and Sensor Planning Service for Virtual Sensors Based on Web Service. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 1429-1439	4	20
27	A provenance framework for Web geoprocessing workflows <b>2011</b> ,		2
26	A capability matching and ontology reasoning method for high precision OGC web service discovery. <i>International Journal of Digital Earth</i> , <b>2011</b> , 4, 449-470	3.9	15
25	Coordination Through Geospatial Web Service Workflow in the Sensor Web Environment. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2010</b> , 3, 433-441	4.7	13
24	Persistent WCS and CSW services of GOES data for GEOSS <b>2010</b> ,		1
23	Automatic On-Demand Data Feed Service for AutoChem Based on Reusable Geo-Processing Workflow. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2010</b> , 3, 418-426	4.7	11
22	Implementation of Sensor Observation Service for Satellite Imagery Sensors <b>2009</b> ,		2
21	Use of grid computing for modeling virtual geospatial products. <i>International Journal of Geographical Information Science</i> , <b>2009</b> , 23, 581-604	4.1	27
20	Using Ajax for desktop-like geospatial web application development <b>2009</b> ,		1
19	The research of interoperability in spatial catalogue service between CSW and THREDDS <b>2009</b> ,		1
18	Multilayer Scene Similarity Assessment <b>2009</b> ,		1
17	A comparison of vegetation indices for corn and soybean vegetation condition monitoring <b>2009</b> ,		5
16	Metadata requirements analysis for the emerging Sensor WebView all notes. <i>International Journal of Digital Earth</i> , <b>2009</b> , 2, 3-17	3.9	18
15	Semantic Web Services-based process planning for earth science applications. <i>International Journal of Geographical Information Science</i> , <b>2009</b> , 23, 1139-1163	4.1	37
14	Building an On-line Geospatial Analysis System with AJAX and Web Services <b>2009</b> ,		1
13	Creating web service interfaces and scientific workflows using command line tools: A GRASS example <b>2009</b> ,		3
12	Sharing and reuse of service-based geospatial processing through a Web Processing Service <b>2009</b> ,		1

11	Sensor Web service integration for pandemic disease spread simulation <b>2009</b> ,		2
10	Crop phenology date estimation based on NDVI derived from the reconstructed MODIS daily surface reflectance data <b>2009</b> ,		8
9	Laser Intensity Used in Classification of Lidar Point Cloud Data <b>2008</b> ,		5
8	Geospatial Workflow in a Sensor Web Environment: Transactions, Events, and Asynchrony <b>2008</b> ,		5
7	Augmenting the OGC Web Processing Service with Message-Based Asynchronous Notification <b>2008</b> ,		2
6	Downscaling of Global Soil Moisture using Auxiliary Data <b>2008</b> ,		8
5	The development of a geospatial data Grid by integrating OGC Web services with Globus-based Grid technology. <i>Concurrency Computation Practice and Experience</i> , <b>2008</b> , 20, 1617-1635	1.4	24
4	Visualization of and Access to CloudSat Vertical Data through Google Earth. <i>Nature Precedings</i> , <b>2007</b> ,		1
3	Grid-enabled OGC environment for EO data and services in support of Canada's forest applications <b>2007</b> ,		2
2	An Optimized Grid-Based, OGC Standards-Compliant Collaborative Software System for Serving NASA Geospatial Data <b>2006</b> ,		11
1	Effective Acquisition of Geospatial Data Products in a Collaborative Grid Environment <b>2006</b> ,		5