

Xiaoqiang Lu

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160
papers

6,964
citations

43
h-index

80
g-index

171
ext. papers

8,697
ext. citations

6.3
avg, IF

7.11
L-index

#	Paper	IF	Citations
160	. <i>Proceedings of the IEEE</i> , 2017 , 105, 1865-1883	14.3	912
159	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 3965-3981	8.1	739
158	Manifold Regularized Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 2815-2826	8.1	262
157	Graph-Regularized Low-Rank Representation for Destriping of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4009-4018	8.1	228
156	Remote Sensing Scene Classification by Unsupervised Representation Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 5148-5157	8.1	198
155	Exploring Models and Data for Remote Sensing Image Caption Generation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 2183-2195	8.1	169
154	Scene recognition by manifold regularized deep learning architecture. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2222-33	10.3	145
153	Discovering Diverse Subset for Unsupervised Hyperspectral Band Selection. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 51-64	8.7	143
152	Hyperspectral Image Superresolution by Transfer Learning. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 1963-1974	4.7	131
151	Spectral Spatial Attention Network for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 3232-3245	8.1	127
150	Joint Dictionary Learning for Multispectral Change Detection. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 884-897	10.2	125
149	Semi-Supervised Multitask Learning for Scene Recognition. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1967-76	10.2	116
148	Latent Semantic Minimal Hashing for Image Retrieval. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 355-368	8.7	103
147	Learning deep event models for crowd anomaly detection. <i>Neurocomputing</i> , 2017 , 219, 548-556	5.4	103
146	Spatiotemporal Statistics for Video Quality Assessment. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 3329-3342	8.7	99
145	Double Constrained NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 2746-2758	8.1	97
144	Hierarchical and Robust Convolutional Neural Network for Very High-Resolution Remote Sensing Object Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 5535-5548	8.1	94

143	Remote Sensing Scene Classification by Gated Bidirectional Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 82-96	8.1	91
142	Hierarchical Recurrent Neural Hashing for Image Retrieval With Hierarchical Convolutional Features. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 106-120	8.7	90
141	A Feature Aggregation Convolutional Neural Network for Remote Sensing Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 7894-7906	8.1	86
140	Nonlocal Graph Convolutional Networks for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 8246-8257	8.1	79
139	A Hybrid Sparsity and Distance-Based Discrimination Detector for Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 1704-1717	8.1	79
138	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 4799-4809	8.1	75
137	Alternatively Constrained Dictionary Learning For Image Superresolution. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 366-77	10.2	73
136	Deep semantic understanding of high resolution remote sensing image 2016 ,		69
135	Surveillance Video Synopsis via Scaling Down Objects. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 740-55	8.7	68
134	HSA-RNN: Hierarchical Structure-Adaptive RNN for Video Summarization 2018 ,		64
133	Image Super-Resolution Via Double Sparsity Regularized Manifold Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 2022-2033	6.4	62
132	Dimensionality Reduction by SpatialSpectral Preservation in Selected Bands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 5185-5197	8.1	59
131	Remote Sensing Image Scene Classification Using Rearranged Local Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 1779-1792	8.1	59
130	Semi-supervised change detection method for multi-temporal hyperspectral images. <i>Neurocomputing</i> , 2015 , 148, 363-375	5.4	58
129	A General Framework for Edited Video and Raw Video Summarization. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 3652-3664	8.7	57
128	SpectralSpatial Kernel Regularized for Hyperspectral Image Denoising. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 3815-3832	8.1	57
127	Hierarchical Recurrent Neural Network for Video Summarization 2017 ,		56
126	Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 2975-2986	8.1	53

125	CAM-RNN: Co-Attention Model Based RNN for Video Captioning. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 5552-5565	8.7	51
124	Semantic Descriptions of High-Resolution Remote Sensing Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 1274-1278	4.1	51
123	A CNN-RNN architecture for multi-label weather recognition. <i>Neurocomputing</i> , 2018 , 322, 47-57	5.4	50
122	Sparse coding from a Bayesian perspective. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 929-39	10.3	49
121	A Coarse-to-Fine Semi-Supervised Change Detection for Multispectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3587-3599	8.1	47
120	Robust visual tracking with discriminative sparse learning. <i>Pattern Recognition</i> , 2013 , 46, 1762-1771	7.7	47
119	Multisource Compensation Network for Remote Sensing Cross-Domain Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 2504-2515	8.1	47
118	A Supervised Segmentation Network for Hyperspectral Image Classification. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2810-2825	8.7	46
117	Temporal Multimodal Learning in Audiovisual Speech Recognition 2016 ,		43
116	Group sparse reconstruction for image segmentation. <i>Neurocomputing</i> , 2014 , 136, 41-48	5.4	41
115	Exploiting Embedding Manifold of Autoencoders for Hyperspectral Anomaly Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 1527-1537	8.1	41
114	The Spectral-Spatial Joint Learning for Change Detection in Multispectral Imagery. <i>Remote Sensing</i> , 2019 , 11, 240	5	38
113	Local structure learning in high resolution remote sensing image retrieval. <i>Neurocomputing</i> , 2016 , 207, 813-822	5.4	37
112	MAM-RNN: Multi-level Attention Model Based RNN for Video Captioning 2017 ,		37
111	Statistical Hypothesis Detector for Abnormal Event Detection in Crowded Scenes. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3597-3608	10.2	36
110	Projection-Based NMF for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 2632-2643	4.7	36
109	Structured dictionary learning for abnormal event detection in crowded scenes. <i>Pattern Recognition</i> , 2018 , 73, 99-110	7.7	36
108	Robust Space-Frequency Joint Representation for Remote Sensing Image Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 7492-7502	8.1	34

107	Image quality assessment: A sparse learning way. <i>Neurocomputing</i> , 2015 , 159, 227-241	5.4	34
106	A Robust Sparse Representation Based Pattern Recognition Approach for Myoelectric Control. <i>IEEE Access</i> , 2018 , 6, 38326-38335	3.5	34
105	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 1985-2000	8.1	32
104	Gated and Axis-Concentrated Localization Network for Remote Sensing Object Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 179-192	8.1	31
103	Face Sketch Synthesis by Multidomain Adversarial Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1419-1428	10.3	31
102	Hyperspectral Image Denoising by Fusing the Selected Related Bands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 2596-2609	8.1	29
101	Deep Cross-Modal Image-Voice Retrieval in Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 7049-7061	8.1	25
100	Robust alternative minimization for matrix completion. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 939-49		25
99	Optimization for limited angle tomography in medical image processing. <i>Pattern Recognition</i> , 2011 , 44, 2427-2435	7.7	25
98	Subspace Clustering Constrained Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 3007-3019	8.1	24
97	Deep Representation for Abnormal Event Detection in Crowded Scenes 2016 ,		24
96	Exploiting spatial relation for fine-grained image classification. <i>Pattern Recognition</i> , 2019 , 91, 47-55	7.7	24
95	Bidirectional adaptive feature fusion for remote sensing scene classification. <i>Neurocomputing</i> , 2019 , 328, 135-146	5.4	24
94	Retrieval Topic Recurrent Memory Network for Remote Sensing Image Captioning. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 256-270	4.7	23
93	Key Frame Extraction in the Summary Space. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1923-1934	10.2	23
92	Mutual Attention Inception Network for Remote Sensing Visual Question Answering. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-14	8.1	22
91	A target detection method for hyperspectral image based on mixture noise model. <i>Neurocomputing</i> , 2016 , 216, 331-341	5.4	21
90	Scene Parsing From an MAP Perspective. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1876-86	10.2	21

89	A non-negative low-rank representation for hyperspectral band selection. <i>International Journal of Remote Sensing</i> , 2016 , 37, 4590-4609	3.1	20
88	. <i>IEEE Access</i> , 2018 , 6, 5573-5583	3.5	19
87	Generalized Scene Classification From Small-Scale Datasets With Multitask Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-11	8.1	18
86	TTH-RNN: Tensor-Train Hierarchical Recurrent Neural Network for Video Summarization. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3629-3637	8.9	18
85	Rotation-Invariant Attention Network for Hyperspectral Image Classification. <i>IEEE Transactions on Image Processing</i> , 2022 , 1-1	8.7	18
84	A discriminative representation for human action recognition. <i>Pattern Recognition</i> , 2016 , 59, 88-97	7.7	17
83	On Combining Social Media and Spatial Technology for POI Cognition and Image Localization. <i>Proceedings of the IEEE</i> , 2017 , 105, 1937-1952	14.3	17
82	Similarity Constrained Convex Nonnegative Matrix Factorization for Hyperspectral Anomaly Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 4810-4822	8.1	16
81	Property-Constrained Dual Learning for Video Summarization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 3989-4000	10.3	16
80	Multi-spectral pedestrian detection. <i>Signal Processing</i> , 2015 , 110, 94-100	4.4	15
79	A Deep Hashing Technique for Remote Sensing Image-Sound Retrieval. <i>Remote Sensing</i> , 2020 , 12, 84	5	15
78	Weather recognition via classification labels and weather-cue maps. <i>Pattern Recognition</i> , 2019 , 95, 272-284	7.7	15
77	3G structure for image caption generation. <i>Neurocomputing</i> , 2019 , 330, 17-28	5.4	15
76	Spectral-Spatial Joint Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 2391-2402	8.1	15
75	Adaptive wavelet-Galerkin methods for limited angle tomography. <i>Image and Vision Computing</i> , 2010 , 28, 696-703	3.7	14
74	Generative Adversarial Capsule Network With ConvLSTM for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 18, 523-527	4.1	14
73	Multisource Remote Sensing Data Classification With Graph Fusion Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-11	8.1	14
72	. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 359-363	4.1	13

71	Low-rank representation for 3D hyperspectral images analysis from map perspective. <i>Signal Processing</i> , 2015 , 112, 27-33	4.4	13
70	Image reconstruction by an alternating minimisation. <i>Neurocomputing</i> , 2011 , 74, 661-670	5.4	13
69	Action recognition by joint learning. <i>Image and Vision Computing</i> , 2016 , 55, 77-85	3.7	13
68	Deep balanced discrete hashing for image retrieval. <i>Neurocomputing</i> , 2020 , 403, 224-236	5.4	13
67	Spectral Super-Resolution of Multispectral Images Using Spatial-Spectral Residual Attention Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-14	8.1	13
66	Video Synopsis in Complex Situations. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 3798-3812	8.7	12
65	A Multi-Task Framework for Weather Recognition 2017 ,		12
64	Supervised deep hashing with a joint deep network. <i>Pattern Recognition</i> , 2020 , 105, 107368	7.7	12
63	Discrete Deep Hashing With Ranking Optimization for Image Retrieval. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 2052-2063	10.3	12
62	Unsupervised Change Detection by Cross-Resolution Difference Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-16	8.1	12
61	A Joint Relationship Aware Neural Network for Single-Image 3D Human Pose Estimation. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	11
60	Deep discrete hashing with pairwise correlation learning. <i>Neurocomputing</i> , 2020 , 385, 111-121	5.4	11
59	Hyperspectral Image Super-Resolution with Self-Supervised Spectral-Spatial Residual Network. <i>Remote Sensing</i> , 2021 , 13, 1260	5	11
58	Vision-to-Language Tasks Based on Attributes and Attention Mechanism. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 913-926	10.2	11
57	Attribute-Cooperated Convolutional Neural Network for Remote Sensing Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 8358-8371	8.1	10
56	Deep Category-Level and Regularized Hashing With Global Semantic Similarity Learning. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	10
55	Video Captioning with Tube Features 2018 ,		10
54	Person Reidentification via Unsupervised Cross-View Metric Learning. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1849-1859	10.2	10

53	Person Reidentification Based on Elastic Projections. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1314-1327	10.3	9
52	Multimodal Learning via Exploring Deep Semantic Similarity 2016 ,		9
51	Multi-stage learning for gender and age prediction. <i>Neurocomputing</i> , 2019 , 334, 114-124	5.4	9
50	Detection of ships in inland river using high-resolution optical satellite imagery based on mixture of deformable part models. <i>Journal of Parallel and Distributed Computing</i> , 2019 , 132, 1-7	4.4	8
49	Multi-modal gated recurrent units for image description. <i>Multimedia Tools and Applications</i> , 2018 , 77, 29847-29869	2.5	8
48	Local learning-based image super-resolution 2011 ,		8
47	Audio description from image by modal translation network. <i>Neurocomputing</i> , 2021 , 423, 124-134	5.4	8
46	Bio-Inspired Representation Learning for Visual Attention Prediction. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3562-3575	10.2	7
45	Hyperspectral image classification based on joint spectrum of spatial space and spectral space. <i>Multimedia Tools and Applications</i> , 2018 , 77, 29759-29777	2.5	7
44	Cross-Domain Scene Classification by Integrating Multiple Incomplete Sources. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-12	8.1	7
43	Hybrid structure for robust dimensionality reduction. <i>Neurocomputing</i> , 2014 , 124, 131-138	5.4	6
42	Geometry constrained sparse coding for single image super-resolution 2012 ,		6
41	Reconstructive Sequence-Graph Network for Video Summarization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	6
40	Cross-Attention Spectral-Spatial Network for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	5
39	JM-Net and Cluster-SVM for Aerial Scene Classification 2017 ,		5
38	Spatial attention based visual semantic learning for action recognition in still images. <i>Neurocomputing</i> , 2020 , 413, 383-396	5.4	5
37	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 1187-1199	6.6	5
36	Bidirectional Interaction Network for Person Re-Identification. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 1935-1948	8.7	5

35	Person Re-identification by Bidirectional Projection 2014 ,		4
34	Local tomography based on grey model. <i>Neurocomputing</i> , 2013 , 101, 10-17	5.4	4
33	Unregistered Hyperspectral and Multispectral Image Fusion with Synchronous Nonnegative Matrix Factorization. <i>Lecture Notes in Computer Science</i> , 2020 , 602-614	0.9	4
32	Local and correlation attention learning for subtle facial expression recognition. <i>Neurocomputing</i> , 2021 , 453, 742-753	5.4	4
31	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	4
30	Semisupervised Spectral Degradation Constrained Network for Spectral Super-Resolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	4
29	Unsupervised feature learning for scene classification of high resolution remote sensing image 2015 ,		3
28	Data-dependent semi-supervised hyperspectral image classification 2013 ,		3
27	Bidirectional Adaptive Feature Fusion for Remote Sensing Scene Classification. <i>Communications in Computer and Information Science</i> , 2017 , 486-497	0.3	3
26	Real-time classification of forearm movements based on high density surface electromyography 2017 ,		3
25	Image2song: Song Retrieval via Bridging Image Content and Lyric Words 2017 ,		3
24	Remote Sensing Scene Classification by Local-Global Mutual Learning. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 1-1	4.1	3
23	Remote Sensing Image Generation From Audio. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 18, 994-998	4.1	3
22	Action Recognition by Jointly Using Video Proposal and Trajectory 2018 ,		3
21	Siamese Dilated Inception Hashing With Intra-Group Correlation Enhancement for Image Retrieval. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 3032-3046	10.3	2
20	Video parsing via spatiotemporally analysis with images. <i>Multimedia Tools and Applications</i> , 2016 , 75, 11961-11976	2.5	2
19	Refraction angle extracting strategy for fan-beam differential phase contrast CT. <i>Neurocomputing</i> , 2014 , 141, 160-169	5.4	2
18	Mixture gradient detector for subpixel detection 2013 ,		2

17	Representative and diverse video summarization 2015 ,		2
16	A novel alternative algorithm for limited angle tomography 2011 ,		2
15	Abnormal event detection by a weakly supervised temporal attention network. <i>CAAI Transactions on Intelligence Technology</i> ,	9.7	2
14	Deep Voice-Visual Cross-Modal Retrieval with Deep Feature Similarity Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 454-465	0.9	2
13	Image de-fencing with hyperspectral camera 2016 ,		2
12	A Novel NMF Guided for Hyperspectral Unmixing From Incomplete and Noisy Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-15	8.1	2
11	Object or background: Whose call is it in complicated scene classification? 2013 ,		1
10	Video quality assessment via supervised topic model 2014 ,		1
9	Image Jigsaw Puzzles with a Self-Correcting Solver 2013 ,		1
8	Pairwise Comparison Network for Remote-Sensing Scene Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 19, 1-5	4.1	1
7	Meta Self-Supervised Learning for Distribution Shifted Few-Shot Scene Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 1-1	4.1	1
6	Multi-Level Alignment Network for Cross-Domain Ship Detection. <i>Remote Sensing</i> , 2022 , 14, 2389	5	1
5	Remote Sensing Scene Classification with Multi-task Learning. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 403-418	0.2	0
4	Unsupervised Learning of Human Action Categories in Still Images with Deep Representations. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020 , 15, 1-20	3.4	0
3	Mobile person re-identification with a lightweight trident CNN. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	
2	Deep Temporal Architecture for Audiovisual Speech Recognition. <i>Communications in Computer and Information Science</i> , 2017 , 650-661	0.3	
1	Human action recognition by multiple spatial clues network. <i>Neurocomputing</i> , 2022 , 483, 10-21	5.4	