

Tom Hao Luan

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

5,221
citations

101543

36
h-index

102487

66
g-index

162
all docs

162
docs citations

162
times ranked

4366
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Workload Allocation in Fog-Cloud Computing Towards Balanced Delay and Power Consumption. IEEE Internet of Things Journal, 2016, , 1-1.	8.7	437
2	Pseudonym Changing at Social Spots: An Effective Strategy for Location Privacy in VANETs. IEEE Transactions on Vehicular Technology, 2012, 61, 86-96.	6.3	383
3	Decentralized Privacy Using Blockchain-Enabled Federated Learning in Fog Computing. IEEE Internet of Things Journal, 2020, 7, 5171-5183.	8.7	268
4	Enabling Fine-Grained Multi-Keyword Search Supporting Classified Sub-Dictionaries over Encrypted Cloud Data. IEEE Transactions on Dependable and Secure Computing, 2016, 13, 312-325.	5.4	228
5	Enabling Efficient Multi-Keyword Ranked Search Over Encrypted Mobile Cloud Data Through Blind Storage. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 127-138.	4.6	157
6	Engineering searchable encryption of mobile cloud networks: when QoE meets QoP. IEEE Wireless Communications, 2015, 22, 74-80.	9.0	149
7	ChainCluster: Engineering a Cooperative Content Distribution Framework for Highway Vehicular Communications. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2644-2657.	8.0	136
8	Towards power consumption-delay tradeoff by workload allocation in cloud-fog computing. , 2015, , .		131
9	MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. IEEE Transactions on Mobile Computing, 2012, 11, 305-319.	5.8	119
10	Optimal Base Station Antenna Downtilt in Downlink Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1779-1791.	9.2	114
11	Personalized Search Over Encrypted Data With Efficient and Secure Updates in Mobile Clouds. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 97-109.	4.6	110
12	Impact of Network Dynamics on User's Video Quality: Analytical Framework and QoS Provision. IEEE Transactions on Multimedia, 2010, 12, 64-78.	7.2	103
13	Engineering a Distributed Infrastructure for Large-Scale Cost-Effective Content Dissemination over Urban Vehicular Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 1419-1435.	6.3	98
14	Secure and Efficient Federated Learning for Smart Grid With Edge-Cloud Collaboration. IEEE Transactions on Industrial Informatics, 2022, 18, 1333-1344.	11.3	85
15	Collaborative Data Scheduling for Vehicular Edge Computing via Deep Reinforcement Learning. IEEE Internet of Things Journal, 2020, 7, 9637-9650.	8.7	84
16	Dimensioning network deployment and resource management in green mesh networks. IEEE Wireless Communications, 2011, 18, 58-65.	9.0	75
17	A Decision-Making Strategy for Vehicle Autonomous Braking in Emergency via Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 5876-5888.	6.3	75
18	Distributed Task Allocation to Enable Collaborative Autonomous Driving With Network Softwarization. IEEE Journal on Selected Areas in Communications, 2018, 36, 2175-2189.	14.0	74

#	ARTICLE	IF	CITATIONS
19	Vehicular Blockchain-Based Collective Learning for Connected and Autonomous Vehicles. IEEE Wireless Communications, 2020, 27, 197-203.	9.0	72
20	Content in Motion: An Edge Computing Based Relay Scheme for Content Dissemination in Urban Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3115-3128.	8.0	68
21	A Mobility-Aware Vehicular Caching Scheme in Content Centric Networks: Model and Optimization. IEEE Transactions on Vehicular Technology, 2019, 68, 3100-3112.	6.3	67
22	Vehicle Position Correction: A Vehicular Blockchain Networks-Based GPS Error Sharing Framework. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 898-912.	8.0	67
23	Social on the road: enabling secure and efficient social networking on highways. IEEE Wireless Communications, 2015, 22, 44-51.	9.0	66
24	Sustainability Analysis and Resource Management for Wireless Mesh Networks with Renewable Energy Supplies. IEEE Journal on Selected Areas in Communications, 2014, 32, 345-355.	14.0	62
25	When NOMA Meets Multiuser Cognitive Radio: Opportunistic Cooperation and User Scheduling. IEEE Transactions on Vehicular Technology, 2018, 67, 6679-6684.	6.3	62
26	Provisioning QoS controlled media access in vehicular to infrastructure communications. Ad Hoc Networks, 2012, 10, 231-242.	5.5	61
27	Feel Bored? Join Verse! Engineering Vehicular Proximity Social Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1120-1131.	6.3	60
28	Minimizing the Delay and Cost of Computation Offloading for Vehicular Edge Computing. IEEE Transactions on Services Computing, 2022, 15, 2897-2909.	4.6	48
29	Integrity-oriented content transmission in highway vehicular ad hoc networks. , 2013, , .		46
30	Morality-Driven Data Forwarding With Privacy Preservation in Mobile Social Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 3209-3222.	6.3	45
31	FogRoute: DTN-based Data Dissemination Model in Fog Computing. IEEE Internet of Things Journal, 2017, , 1-1.	8.7	44
32	Self-Learning Based Computation Offloading for Internet of Vehicles: Model and Algorithm. IEEE Transactions on Wireless Communications, 2021, 20, 5913-5925.	9.2	43
33	Spatial Coordinated Medium Sharing: Optimal Access Control Management in Drive-Thru Internet. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2673-2686.	8.0	41
34	Silence is Golden: Enhancing Privacy of Location-Based Services by Content Broadcasting and Active Caching in Wireless Vehicular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 9942-9953.	6.3	41
35	Secure and Personalized Edge Computing Services in 6G Heterogeneous Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 5920-5931.	8.7	41
36	Infrastructure-cooperative algorithm for effective intersection collision avoidance. Transportation Research Part C: Emerging Technologies, 2018, 89, 188-204.	7.6	39

#	ARTICLE	IF	CITATIONS
37	VTube: Towards the media rich city life with autonomous vehicular content distribution. , 2011, , .		38
38	Connected Vehicular Transportation: Data Analytics and Traffic-Dependent Networking. IEEE Vehicular Technology Magazine, 2017, 12, 42-54.	3.4	38
39	VFC-Based Cooperative UAV Computation Task Offloading for Post-disaster Rescue. , 2020, , .		38
40	Collaborative Content Delivery in Software-Defined Heterogeneous Vehicular Networks. IEEE/ACM Transactions on Networking, 2020, 28, 575-587.	3.8	38
41	Physical Layer Security in Cybertwin-Enabled Integrated Satellite-Terrestrial Vehicle Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4561-4572.	6.3	37
42	PRFilter: An efficient privacy-preserving Relay Filtering scheme for delay tolerant networks. , 2012, , .		35
43	A Survey of Driving Safety With Sensing, Vehicular Communications, and Artificial Intelligence-Based Collision Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6142-6163.	8.0	35
44	Task Offloading for Post-Disaster Rescue in Unmanned Aerial Vehicles Networks. IEEE/ACM Transactions on Networking, 2022, 30, 1525-1539.	3.8	35
45	A Game Theoretic Scheme for Optimal Access Control in Heterogeneous Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4590-4603.	8.0	34
46	A Lightweight and Attack-Proof Bidirectional Blockchain Paradigm for Internet of Things. IEEE Internet of Things Journal, 2022, 9, 4371-4384.	8.7	33
47	Anonymity Analysis on Social Spot Based Pseudonym Changing for Location Privacy in VANETs. , 2011, , .		32
48	Asymptotic Throughput Capacity Analysis of VANETs Exploiting Mobility Diversity. IEEE Transactions on Vehicular Technology, 2015, 64, 4187-4202.	6.3	31
49	A Hybrid Method Combining Markov Prediction and Fuzzy Classification for Driving Condition Recognition. IEEE Transactions on Vehicular Technology, 2018, 67, 10411-10424.	6.3	31
50	Reservation Service: Trusted Relay Selection for Edge Computing Services in Vehicular Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 2734-2746.	14.0	31
51	Federated Learning With Fair Incentives and Robust Aggregation for UAV-Aided Crowdsensing. IEEE Transactions on Network Science and Engineering, 2022, 9, 3179-3196.	6.4	31
52	A Game Theoretic Scheme for Collaborative Vehicular Task Offloading in 5G HetNets. IEEE Transactions on Vehicular Technology, 2020, 69, 16044-16056.	6.3	30
53	Collaboration as a Service: Digital-Twin-Enabled Collaborative and Distributed Autonomous Driving. IEEE Internet of Things Journal, 2022, 9, 18607-18619.	8.7	30
54	Channel Allocation for Smooth Video Delivery over Cognitive Radio Networks. , 2010, , .		29

#	ARTICLE	IF	CITATIONS
55	Bounds of Asymptotic Performance Limits of Social-Proximity Vehicular Networks. IEEE/ACM Transactions on Networking, 2014, 22, 812-825.	3.8	29
56	Unmanned Era: A Service Response Framework in Smart City. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5791-5805.	8.0	29
57	Engineering a Game Theoretic Access for Urban Vehicular Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 4602-4615.	6.3	26
58	DisLoc: A Convex Partitioning Based Approach for Distributed 3-D Localization in Wireless Sensor Networks. IEEE Sensors Journal, 2017, 17, 8412-8423.	4.7	25
59	Malware Propagations in Wireless Ad Hoc Networks. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 1016-1026.	5.4	25
60	An Autonomous Lane-Changing System With Knowledge Accumulation and Transfer Assisted by Vehicular Blockchain. IEEE Internet of Things Journal, 2020, 7, 11123-11136.	8.7	24
61	Lifesaving with RescueChain: Energy-Efficient and Partition-Tolerant Blockchain Based Secure Information Sharing for UAV-Aided Disaster Rescue. , 2021, , .		24
62	EdgeVCD: Intelligent Algorithm-Inspired Content Distribution in Vehicular Edge Computing Network. IEEE Internet of Things Journal, 2020, 7, 5562-5579.	8.7	23
63	Trust Based Secure Content Delivery in Vehicular Networks: A Bargaining Game Theoretical Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 3267-3279.	6.3	22
64	Capacity and delay analysis for social-proximity urban vehicular networks. , 2012, , .		21
65	Queuing Algorithm for Effective Target Coverage in Mobile Crowd Sensing. IEEE Internet of Things Journal, 2017, 4, 1046-1055.	8.7	21
66	Detecting stealthy attacks on industrial control systems using a permutation entropy-based method. Future Generation Computer Systems, 2020, 108, 1230-1240.	7.5	21
67	BCC: Blockchain-Based Collaborative Crowdsensing in Autonomous Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 4518-4532.	8.7	21
68	A Secure and Efficient Wireless Charging Scheme for Electric Vehicles in Vehicular Energy Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 1491-1508.	6.3	21
69	Green Interference Based Symbiotic Security in Integrated Satellite-Terrestrial Communications. IEEE Transactions on Wireless Communications, 2022, 21, 9962-9973.	9.2	21
70	Adaptive Resource Management in Sustainable Energy Powered Wireless Mesh Networks. , 2011, , .		20
71	Eliminating the Barriers: Demystifying Wi-Fi Baseband Design and Introducing the PicoScenes Wi-Fi Sensing Platform. IEEE Internet of Things Journal, 2022, 9, 4476-4496.	8.7	19
72	Battery Maintenance of Pedelec Sharing System: Big Data Based Usage Prediction and Replenishment Scheduling. IEEE Transactions on Network Science and Engineering, 2020, 7, 127-138.	6.4	18

#	ARTICLE	IF	CITATIONS
73	CFT: A Cluster-based File Transfer Scheme for highway VANETs. , 2017, , .		17
74	Graded Warning for Rear-End Collision: An Artificial Intelligence-Aided Algorithm. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 565-579.	8.0	17
75	Building Transmission Backbone for Highway Vehicular Networks: Framework and Analysis. IEEE Transactions on Vehicular Technology, 2018, 67, 8709-8722.	6.3	16
76	Detecting replicated nodes in Wireless Sensor Networks using random walks and network division. , 2014, , .		14
77	An incentive-based optimizing strategy of service frequency for an urban rail transit system. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 106-122.	7.4	14
78	Optimal Utility of Vehicles in LTE-V Scenario: An Immune Clone-Based Spectrum Allocation Approach. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1942-1953.	8.0	14
79	A Survey of Handy See-Through Wall Technology. IEEE Access, 2020, 8, 82951-82971.	4.2	13
80	Enabling Content Distribution in Vehicular Ad Hoc Networks. SpringerBriefs in Computer Science, 2014, , .	0.2	12
81	Predictive data mining for Converged Internet of Things: A Mobile Health perspective. , 2015, , .		12
82	Hybrid Autonomous Driving Guidance Strategy Combining Deep Reinforcement Learning and Expert System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11273-11286.	8.0	12
83	Emerging technology for 5G-enabled vehicular networks. IEEE Wireless Communications, 2017, 24, 12-12.	9.0	11
84	Fuzzy logic-based integrity-oriented file transfer for highway vehicular communications. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	11
85	MAC Performance Analysis for Vehicle-to-Infrastructure Communication. , 2010, , .		10
86	UAVs-Aided Delay-Tolerant Blockchain Secure Offline Transactions in Post-Disaster Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 12030-12043.	6.3	10
87	Software-Defined Vehicular Networks: Architecture, Algorithms, and Applications: Part 2. IEEE Communications Magazine, 2017, 55, 58-59.	6.1	9
88	Software-Defined Vehicular Networks: Architecture, Algorithms, and Applications: Part 1. , 2017, 55, 78-79.		9
89	Privacy-Preserving in Edge Computing. Wireless Networks, 2021, , .	0.5	9
90	Collaborative Driving: Learning-Aided Joint Topology Formulation and Beamforming. IEEE Vehicular Technology Magazine, 2022, 17, 103-111.	3.4	9

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91	Enabling efficient publicly verifiable outsourcing computation for matrix multiplication. , 2015, , .		8
92	Enhancement of Sensor Data Transmission by Inference and Efficient Data Processing. Communications in Computer and Information Science, 2016, , 81-92.	0.5	8
93	Towards Hit-Interruption Tradeoff in Vehicular Edge Caching: Algorithm and Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5198-5210.	8.0	8
94	Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. IEEE Internet of Things Journal, 2021, 8, 8032-8043.	8.7	8
95	A Game-Theoretical Approach for Secure Crowdsourcing-Based Indoor Navigation System With Reputation Mechanism. IEEE Internet of Things Journal, 2022, 9, 5524-5536.	8.7	7
96	Blockchain Based Decentralized Privacy Preserving in Edge Computing. Wireless Networks, 2021, , 83-109.	0.5	7
97	Dimensioning the packet loss burstiness over wireless channels: a novel metric, its analysis and application. Wireless Communications and Mobile Computing, 2014, 14, 1160-1175.	1.2	6
98	Efficient MAC protocol for drive-through Internet in a sparse highway environment. IET Communications, 2017, 11, 428-436.	2.2	6
99	When Road Information Meets Data Mining: Precision Detection for Heading and Width of Roads. IEEE Access, 2019, 7, 60399-60410.	4.2	6
100	APDP: Attack-Proof Personalized Differential Privacy Model for a Smart Home. IEEE Access, 2019, 7, 166593-166605.	4.2	6
101	Digital Twin Empowered Heterogeneous Network Selection in Vehicular Networks With Knowledge Transfer. IEEE Transactions on Vehicular Technology, 2022, 71, 12154-12168.	6.3	6
102	Guest Editorial Emerging Technology for 5G Enabled Vehicular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 7827-7830.	6.3	5
103	Sustainability Analysis for Fog Nodes With Renewable Energy Supplies. IEEE Internet of Things Journal, 2019, 6, 6725-6735.	8.7	5
104	An Introduction to Edge Computing. Wireless Networks, 2021, , 1-14.	0.5	5
105	Privacy Issues in Edge Computing. Wireless Networks, 2021, , 15-34.	0.5	5
106	Providing Utility-Optimal Throughput Guarantees in Wireless LANs. IEEE Transactions on Vehicular Technology, 2016, 65, 7559-7567.	6.3	4
107	Cloud-based load balancing using double Q-learning for improved Quality of Service. Wireless Networks, 2023, 29, 1043-1050.	3.0	4
108	Roadside Sensor Based Vehicle Counting Incomplex Traffic Environment. , 2019, , .		4

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109	A Hybrid Localization Approach in 3D Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2015, 2015, 1-11.	2.2	4
110	Digital Twin Based Remote Resource Sharing in Internet of Vehicles using Consortium Blockchain. , 2021, , .		4
111	Content in Motion: A Novel Relay Scheme for Content Dissemination in Urban Vehicular Networks. , 2016, , .		3
112	Optimal Access Control in Heterogeneous Vehicular Networks: A Game Theoretic Approach. , 2017, , .		3
113	A Queuing Based Model for Analyzing Multihop Performance in VANET. , 2018, , .		3
114	Prediction Based Vehicular Caching: Where and What to Cache?. Mobile Networks and Applications, 2020, 25, 760-771.	3.3	3
115	Save or Waste: Real Data Based Energy-Efficient Driving. IEEE Access, 2020, 8, 133936-133950.	4.2	3
116	Deep Learning Based Autonomous Driving in Vehicular Networks. Wireless Networks, 2021, , 131-150.	0.5	3
117	Efficient Authentication for Vehicular Digital Twin Communications. , 2021, , .		3
118	Real-Time Fault Diagnosis for EVs With Multilabel Feature Selection and Sliding Window Control. IEEE Internet of Things Journal, 2022, 9, 18346-18359.	8.7	3
119	Time or Reward: Digital-twin Enabled Personalized Vehicle Path Planning. , 2021, , .		3
120	Throughput evaluation for cooperative drive-thru Internet using microscopic mobility model. , 2013, , .		2
121	Mobility Increases the Risk of Malware Propagations in Wireless Networks. , 2015, , .		2
122	Guest editorial: fog computing on wheels. Peer-to-Peer Networking and Applications, 2018, 11, 735-737.	3.9	2
123	Spectrum Sharing for Vehicular Communications in A Multi-operator Scenario. , 2019, , .		2
124	Guest Editorial Special Issue on Internet of Things for Smart Ocean. IEEE Internet of Things Journal, 2020, 7, 9675-9677.	8.7	2
125	The Next Generation Vehicular Networks, Modeling, Algorithm and Applications. Wireless Networks, 2021, , .	0.5	2
126	On Mobility-Aware and Channel-Randomness-Adaptive Optimal Neighbor Discovery for Vehicular Networks. IEEE Internet of Things Journal, 2021, 8, 6828-6839.	8.7	2

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127	On Vehicle Fault Diagnosis: A Low Complexity Onboard Method. , 2020, , .		2
128	Reputation Based Content Delivery in Information Centric Vehicular Networks. Wireless Networks, 2021, , 29-47.	0.5	2
129	Spatial-Temporal Graph Convolutional Networks for Parking Space Prediction in Smart Cities. , 2021, , .		2
130	QoS-Aware Data Collection in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 769083.	2.2	1
131	See the near future: A short-term predictive methodology to traffic load in ITS. , 2017, , .		1
132	Design of TD-LTE Based Signal Indoor Distribution System. , 2017, , .		1
133	Towards an Analysis of Traffic Shaping and Policing in Fog Networks Using Stochastic Fluid Models. , 2017, , .		1
134	Degradation of transmission range in three-dimensional scenarios of VANETs. , 2018, , .		1
135	Privacy Protected Routing in Delay Tolerant Networks. SpringerBriefs in Computer Science, 2015, , 69-79.	0.2	1
136	Computation Offloading with Reliability Guarantee in Vehicular Edge Computing Systems. , 2020, , .		1
137	A Blockchain-Based Cooperative Perception in Internet of Vehicles. , 2021, , .		1
138	Value-Aware Collaborative Data Pricing for Federated Learning in Vehicular Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 289-300.	0.3	1
139	Device Placement for Autonomous Vehicles using Reinforcement Learning. , 2021, , .		1
140	Guest editorial: Distributed control and optimization of wireless networks. Peer-to-Peer Networking and Applications, 2017, 10, 421-424.	3.9	0
141	On efficient admission control utilizing cloud compression in drive-thru vehicular networks. , 2017, , .		0
142	Prototype System Based Enhanced Scheduled Access Mechanism for WBAN. , 2017, , .		0
143	Optimizing Service Frequency for Urban Rail Transit: A Game-Theoretical Methodology. , 2017, , .		0
144	Framework for Cooperative Perception of Intelligent Vehicles: Using Improved Neighbor Discovery. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
145	Location-Aware Privacy Preserving in Edge Computing. <i>Wireless Networks</i> , 2021, , 65-82.	0.5	0
146	Conclusion and Future Research Issues. <i>Wireless Networks</i> , 2021, , 111-113.	0.5	0
147	Participatory Budget and Rate Allocation in Mobile Data Offloading. , 2021, , .		0
148	Large-Volume Content Distribution in Vehicular Networks: Adaptive Playout from User's Perspective. <i>SpringerBriefs in Computer Science</i> , 2014, , 71-104.	0.2	0
149	Medium-Size Content Transmission Over Infrastructure-Less Inter-Vehicle Communications. <i>SpringerBriefs in Computer Science</i> , 2014, , 49-69.	0.2	0
150	Contract Based Edge Caching in Vehicular Networks. <i>Wireless Networks</i> , 2021, , 49-67.	0.5	0
151	Stackelberg Game Based Computation Offloading in Vehicular Networks. <i>Wireless Networks</i> , 2021, , 69-90.	0.5	0
152	Auction Based Secure Computation Offloading in Vehicular Networks. <i>Wireless Networks</i> , 2021, , 91-109.	0.5	0
153	Bargain Game Based Secure Content Delivery in Vehicular Networks. <i>Wireless Networks</i> , 2021, , 111-129.	0.5	0
154	Intrusion Detection for High-speed Railway System: A Faster R-CNN Approach. , 2021, , .		0
155	Collaborative and Distributed Autonomous Driving: A Game Theoretic Approach. , 2021, , .		0