
ESI 计算机科学领域 热点论文信息推送

中国科学院自动化研究所

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ESI 计算机科学及其相关领域热点论文信息推送

—2019 年 5 月更新数据

ESI (Essential Science Indicators) 热点论文是指近两年内发表的在近两个月内被引次数进入前 0.1% 的 SCI/SSCI 文章,即最近两个月内最受关注的文章。

本期入榜文章是 2016 年 12 月到 2018 年 12 月发表的文章,在 2019 年 1~2 月内被引次数排名前 0.1% 的文章。数据更新时间为 2019 年 5 月。

本期 ESI 计算机科学领域热点文章共 85 篇,总被引 4371 次,其中:

- 总被引次数最多的年份为 2017 年,占比 67.7%; 篇数最多的年份为 2018 年,占比 55.3%。
- 来源出版物出现最多的分别是 *Information Sciences*、*IEEE Transactions On Wireless Communications*、*IEEE Internet Of Things Journal*, 各 5 篇, 篇均被引 44.3 次。
- 被引频次最多的出版物为 *Journal of Statistical Software* (同上期), 共 432 次。
- 单篇最高被引 319 次 (上期被引 238 次); 新入榜 57 篇, 单篇最高被引 107 次;
- 单篇被引最高的论文,由丹麦技术大学 (Technical University Of Denmark) 的 *Kuznetsova, Alexandra* 等人在 *Journal of Statistical Software* 上发表, 题名为 "*ImerTest Package: Tests in Linear Mixed Effects Models*";
- 本期新入榜的单篇被引最高论文,由意大利的卡拉布里亚大学 (*University of Calabria*) 的 *Gravina, Raffaele* 等人发表在 *Information Fusion*, 在当期被引频次中排名第 10。

附表：ESI 计算机科学领域热点论文 (2019 年 5 月更新)

注：红色标记代表相比上期首次入榜文章。

序号	题名	作者	来源	作者机构	被引频次
1	ImerTest Package: Tests in Linear Mixed Effects Models	Kuznetsova, Alexandra; Brockhoff, Per B.; Christensen, Rune H. B.	Journal Of Statistical Software,2017,82(13):1-26	Technical University Of Denmark;	319
2	A survey on deep learning in medical image analysis	Litjens, Geert; Kooi, Thijs; Bejnordi, Babak Ehteshami; Setio, Arnaud Arindra Adiyoso; Ciompi, Francesco; Ghafoorian, Mohsen; van der Laak, Jeroen A. W. M.; van Ginneken, Bram; Sanchez, Clara I.	Medical Image Analysis,2017,42:60-88	Radboud University Nijmegen;	242
3	ImageJ2: ImageJ for the next generation of scientific image data	Rueden, Curtis T.; Schindelin, Johannes; Hiner, Mark C.; DeZonia, Barry E.; Walter, Alison E.; Arena, Ellen T.; Eliceiri, Kevin W.	BMC Bioinformatics,2017,18,Article Number 529	The Morgridge Institute For Research, Inc.;University Of Wisconsin System;University Of Wisconsin Madison;	194
4	Mastering the game of Go without human knowledge	Silver, David; Schrittwieser, Julian; Simonyan, Karen; Antonoglou, Ioannis; Huang, Aja; Guez, Arthur; Hubert, Thomas; Baker, Lucas; Lai, Matthew; Bolton, Adrian; Chen, Yutian; Lillicrap, Timothy; Hui, Fan;	Nature,2017,550(7676):354+	Deepmind;	180

		Sifre, Laurent; van den Driessche, George; Graepel, Thore; Hassabis, Demis			
5	Practical Bayesian model evaluation using leave-one-out cross-validation and WAIC	Vehtari, Aki; Gelman, Andrew; Gabry, Jonah	Statistics And Computing,2017,27(5):1413-1432	Aalto University;Columbia University;	141
6	ImageNet Classification with Deep Convolutional Neural Networks	Krizhevsky, Alex; Sutskever, Ilya; Hinton, Geoffrey E.	Communications Of The Acm,2017,60(6):84-90	Google Incorporated;Openai;	138
7	A survey of deep neural network architectures and their applications	Liu, Weibo; Wang, Zidong; Liu, Xiaohui; Zeng, Nianyin; Liu, Yurong; Alsaadi, Fuad E.	Neurocomputing,2017,234:11-26	Brunel University;Yangzhou University;Xiamen University;King Abdulaziz University;	132
8	Long non-coding RNAs and complex diseases: from experimental results to computational models	Chen, Xing; Yan, Chenggang Clarence; Zhang, Xu; You, Zhu-Hong	Briefings In Bioinformatics,2017,18(4):558-576	China University Of Mining & Technology;Shandong University;Hangzhou Dianzi University;	118
9	brms: An R Package for Bayesian Multilevel Models Using Stan	Buerkner, Paul-Christian	Journal Of Statistical Software,2017,80(1):1-28	University Of Munster;	113
10	Multi-sensor fusion in body sensor networks: State-of-the-art and research challenges	Gravina, Raffaele; Alinia, Parastoo; Ghasemzadeh, Hassan; Fortino, Giancarlo	Information Fusion,2017,35:68-80	University Of Calabria;Washington State University;	107

11	Basics of meta-analysis: I-2 is not an absolute measure of heterogeneity	Borenstein, Michael; Higgins, Julian P. T.; Hedges, Larry V.; Rothstein, Hannah R.	Research Synthesis Methods,2017,8(1):5-18	Baruch College (Cuny);University Of Bristol;Northwestern University;City University Of New York (Cuny) System;Biostat Inc;	105
12	Secure attribute-based data sharing for resource-limited users in cloud computing	Li, Jin; Zhang, Yinghui; Chen, Xiaofeng; Xiang, Yang	Computers & Security,2018,72:1-12	Chinese Academy Of Sciences;Xidian University;Xi&Apos;An University Of Posts & Telecommunications;Westone Cryptol Res Ctr;Swinburne University Of Technology;State Key Lab Cryptol;Guangzhou University;	103
13	A Survey on Internet of Things: Architecture, Enabling Technologies, Security and Privacy, and Applications	Lin, Jie; Yu, Wei; Zhang, Nan; Yang, Xinyu; Zhang, Hanlin; Zhao, Wei	IEEE Internet Of Things Journal,2017,4(Si5):1125-1142	George Washington University;Xi&Apos;An Jiaotong University;University System Of Maryland;University Of Macau;Towson University;Qingdao University;	91
14	Energy-Efficient UAV Communication With Trajectory Optimization	Zeng, Yong; Zhang, Rui	IEEE Transactions On Wireless Communications,2017,16(6):3747-3760	Agency For Science Technology & Research (Astar);National University Of Singapore;Institute For Infocomm Research;	87

15	5G: A Tutorial Overview of Standards, Trials, Challenges, Deployment, and Practice	Shafi, Mansoor; Molisch, Andreas F.; Smith, Peter J.; Haustein, Thomas; Zhu, Peiying; De Silva, Prasan; Tufvesson, Fredrik; Benjebbour, Anass; Wunder, Gerhard	IEEE Journal On Selected Areas In Communications,2017,35(6):1201-1221	Na-Fraunhofer Heinrich Herz Inst;Victoria University Wellington;University Of Southern California;Spark Nz;Ntt Docomo;Lund University;Huawei Technologies;Fraunhofer Hhi;	85
16	Communications and Signals Design for Wireless Power Transmission	Zeng, Yong; Clerckx, Bruno; Zhang, Rui	IEEE Transactions On Communications,2017,65(5):2264-2290	Agency For Science Technology & Research (Astar);National University Of Singapore;Institute For Infocomm Research;Imperial College London;	75
17	LSTM: A Search Space Odyssey	Greff, Klaus; Srivastava, Rupesh K.; Koutnik, Jan; Steunebrink, Bas R.; Schmidhuber, Juergen	IEEE Transactions On Neural Networks And Learning Systems,2017,28(10):2222-2232	Na-Scuola Univ Profess Svizzera Italiana;Univ Svizzera Italiana;	71
18	Automated detection of arrhythmias using different intervals of tachycardia ECG segments with convolutional neural network	Acharya, U. Rajendra; Fujita, Hamido; Lih, Oh Shu; Hagiwara, Yuki; Tan, Jen Hong; Adam, Muhammad	Information Sciences,2017,405:81-90	Na-Iwate Prefectural Univ;Universiti Malaya;Singapore University Of Social Sciences (Suss);Ngee Ann Polytech;	70
19	Stacked Convolutional Denoising Auto-Encoders for Feature Representation	Du, Bo; Xiong, Wei; Wu, Jia; Zhang, Lefei; Zhang, Liangpei; Tao, Dacheng	IEEE Transactions On Cybernetics,2017,47(4):1017-1027	University Of Technology Sydney;Wuhan University;	70

20	A Primer on 3GPP Narrowband Internet of Things	Wan, Y. -P. Eric; Lin, Xingqin; Adhikary, Ansuman; Grovlen, Asbjorn; Sui, Yutao; Blankenship, Yufei; Bergman, Johan; Razaghi, Hazhir S.	IEEE Communications Magazine,2017,55(3):117-123	Ericsson;	65
21	Cloud-aided lightweight certificateless authentication protocol with anonymity for wireless body area networks	Shen, Jian; Gui, Ziyuan; Ji, Sai; Shen, Jun; Tan, Haowen; Tang, Yi	Journal Of Network And Computer Applications,2018,106:117-123	Chinese Academy Of Sciences;Nanjing University Of Information Science & Technology;Institute Of Information Engineering, Cas;Guangzhou University;Chosun University;	62
22	Millimeter Wave Communications for Future Mobile Networks	Xiao, Ming; Mumtaz, Shahid; Huang, Yongming; Dai, Linglong; Li, Yonghui; Matthaiou, Michail; Karagiannidis, George K.; Bjornson, Emil; Yang, Kai; Chih-Lin, I; Ghosh, Amitabha	IEEE Journal On Selected Areas In Communications,2017,35(9):1909-1935	Aristotle University Of Thessaloniki;University Of Sydney;Universidade De Aveiro;Tsinghua University;Tongji University;Southeast University - China;Royal Institute Of Technology;Queens University Belfast;Nokia Corporation;Nokia Bell Labs;Linkoping University;China Mobile;	59
23	Grasshopper Optimisation Algorithm: Theory and application	Saremi, Shahrzad; Mirjalili, Seyedali; Lewis, Andrew	Advances In Engineering Software,2017,105:30-47	Griffith Coll;Griffith University;	59

24	Application of deep convolutional neural network for automated detection of myocardial infarction using ECG signals	Acharya, U. Rajendra; Fujita, Hamido; Oh, Shu Lih; Hagiwara, Yuki; Tan, Jen Hong; Adam, Muhammad	Information Sciences,2017,415:190-198	Na-Ipu;Universiti Malaya;Singapore University Of Social Sciences (Suss);Ngee Ann Polytech;	58
25	Salp Swarm Algorithm: A bio-inspired optimizer for engineering design problems	Mirjalili, Seyedali; Gandomi, Amir H.; Mirjalili, Seyedeh Zahra; Saremi, Shahrzad; Faris, Hossam; Mirjalili, Seyed Mohammad	Advances In Engineering Software,2017,114:163-191	Concordia University - Canada;University Of Newcastle;University Of Jordan;Stevens Institute Of Technology;Michigan State University;Griffith University;	52
26	Finite-Time Distributed State Estimation Over Sensor Networks With Round-Robin Protocol and Fading Channels	Xu, Yong; Lu, Renquan; Shi, Peng; Li, Hongyi; Xie, Shengli	IEEE Transactions On Cybernetics,2018,48(1):336-345	Guangdong Key Lab Iot Informat Technol;Victoria University;University Of Adelaide;Huaibei Normal University;Guangdong University Of Technology;	51
27	Mobile edge computing, Fog et al.: A survey and analysis of security threats and challenges	Roman, Rodrigo; Lopez, Javier; Mambo, Masahiro	Future Generation Computer Systems-The International Journal Of Escience,2018,78:680-698	Kanazawa University;Universidad De Malaga;	49
28	Privacy-preserving Naive Bayes classifiers secure against the substitution-then-comparison attack	Gao, Chong-zhi; Cheng, Qiong; He, Pei; Susilo, Willy; Li, Jin	Information Sciences,2018,444:72-88	Guangzhou University;University Of Wollongong;State Key Lab Cryptol;	48

29	QUOIN: Incentive Mechanisms for Crowd Sensing Networks	Ota, Kaoru; Dong, Mianxiong; Gui, Jinsong; Liu, Anfeng	IEEE Network,2018,32(2):114-119	Central South University;Muroran Institute Of Technology;	48
30	Learning IoT in Edge: Deep Learning for the Internet of Things with Edge Computing	Li, He; Ota, Kaoru; Dong, Mianxiong	IEEE Network,2018,32(1):96-101	Muroran Institute Of Technology;	48
31	Brain Intelligence: Go beyond Artificial Intelligence	Lu, Huimin; Li, Yujie; Chen, Min; Kim, Hyoungseop; Serikawa, Seiichi	Mobile Networks & Applications,2018,23(Si2):368-375	Huazhong University Of Science & Technology;Yangzhou University;Kyushu Institute Of Technology;	45
32	A deep convolutional neural network model to classify heartbeats	Acharya, U. Rajendra; Oh, Shu Lih; Hagiwara, Yuki; Tan, Jen Hong; Adam, Muhammad; Gertych, Arkadiusz; Tan, Ru San	Computers In Biology And Medicine,2017,89:389-396	Cedars Sinai Medical Center;Universiti Malaya;Singapore University Of Social Sciences (Suss);Ngee Ann Polytech;National Heart Centre Singapore;Duke Natl Univ;	45
33	Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks	Wu, Qingqing; Zeng, Yong; Zhang, Rui	IEEE Transactions On Wireless Communications,2018,17(3):2109-2121	National University Of Singapore;	44
34	Mobile Edge Computing: A Survey	Abbas, Nasir; Zhang, Yan; Taherkordi, Amir; Skeie, Tor	IEEE Internet Of Things Journal,2018,5(1):450-465	Simula Res Lab;University Of Oslo;	44

35	Achieving Efficient and Secure Data Acquisition for Cloud-Supported Internet of Things in Smart Grid	Guan, Zhitao; Li, Jing; Wu, Longfei; Zhang, Yue; Wu, Jun; Du, Xiaojiang	IEEE Internet Of Things Journal,2017,4(6):1934-1944	North China Electric Power University;Temple University;Shanghai Jiao Tong University;Pennsylvania Commonwealth System Of Higher Education (Pcshe);	42
36	Rate-Energy Region of SWIPT for MIMO Broadcasting Under Nonlinear Energy Harvesting Model	Xiong, Ke; Wang, Beibei; Liu, K. J. Ray	IEEE Transactions On Wireless Communications,2017,16(8):5147-5161	Beijing Jiaotong University;University System Of Maryland;University Of Maryland College Park;Southeast University - China;	42
37	Industry 4.0 and the current status as well as future prospects on logistics	Hofmann, Erik; Ruesch, Marco	Computers In Industry,2017,89:23-34	University Of St Gallen;	42
38	MACHINE LEARNING PARADIGMS FOR NEXT-GENERATION WIRELESS NETWORKS	Jiang, Chunxiao; Zhang, Haijun; Ren, Yong; Han, Zhu; Chen, Kwang-Cheng; Hanzo, Lajos	IEEE Wireless Communications,2017,24(2):98-105	State University System Of Florida;University Of Southampton;University Of South Florida;University Of Science & Technology Beijing;University Of Houston System;University Of Houston;Tsinghua University;Tsinghua Space Center;	40
39	High-performance target tracking scheme with low prediction precision	Liu, Anfeng; Zhao, Shaona	International Journal Of Ad Hoc And Ubiquitous Computing,2018,29(4):270	Central South University;	39

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40	Deep convolutional neural network for the automated detection and diagnosis of seizure using EEG signals	Acharya, U. Rajendra; Oh, Shu Lih; Hagiwara, Yuki; Tan, Jen Hong; Adeli, Hojjat	Computers In Biology And Medicine,2018,100:270-278	Na-Ngee Ann Polytech;Universiti Malaya;Univ Sys Ohio;Singapore University Of Social Sciences (Suss);Ohio State University;	37
41	A novel collaborative optimization algorithm in solving complex optimization problems	Deng, Wu; Zhao, Huimin; Zou, Li; Li, Guangyu; Yang, Xinhua; Wu, Daqing	Soft Computing,2017,21(15):4387-4398	Chongqing University;University Of South China;Southwest Jiaotong University;Nanjing University Of Information Science & Technology;Guangxi University Of Nationalities;Dalian Jiaotong University;	36
42	Mobile Unmanned Aerial Vehicles (UAVs) for Energy-Efficient Internet of Things Communications	Mozaffari, Mohammad; Saad, Walid; Bennis, Mehdi; Debbah, Merouane	IEEE Transactions On Wireless Communications,2017,16(11):7574-7589	Centralesupelec;Virginia Polytechnic Institute & State University;Universite Paris Saclay (Comue);Universite Paris Saclay;Kyung Hee University;Huawei France Res & Dev;Ctr Wireless Commun;	34
43	D-AHP method with different credibility of information	Deng, Xinyang; Deng, Yong	Soft Computing,2019,23(2):683-691	Southwest University - China;University Of Electronic Science & Technology Of China;	33

44	Facial expression recognition via learning deep sparse autoencoders	Zeng, Nianyin; Zhang, Hong; Song, Baoye; Liu, Weibo; Li, Yurong; Dobaie, Abdullah M.	Neurocomputing,2018,273:643-649	Brunel University;Xiamen University;Shandong University Of Science & Technology;King Abdulaziz University;Fuzhou University;Fujian Key Lab Med Instrumentat & Pharmaceut Tech;	32
45	Energy-Latency Tradeoff for Energy-Aware Offloading in Mobile Edge Computing Networks	Zhang, Jiao; Hu, Xiping; Ning, Zhaolong; Ngai, Edith C. -H.; Zhou, Li; Wei, Jibo; Cheng, Jun; Hu, Bin	IEEE Internet Of Things Journal,2018,5(Si4):2633-2645	Chinese Academy Of Sciences;Uppsala University;Shenzhen Institute Of Advanced Technology, Cas;National University Of Defense Technology - China;Lanzhou University;Dalian University Of Technology;	31
46	A Discriminatively Learned CNN Embedding for Person Reidentification	Zheng, Zhedong; Zheng, Liang; Yang, Yi	ACM Transactions On Multimedia Computing Communications And Applications,2018,14(1),Article Number 13	Chinese Academy Of Sciences;University Of Technology Sydney;Institute Of Software, Cas;	31
47	A neural network constructed by deep learning technique and its application to intelligent fault diagnosis of machines	Jia, Feng; Lei, Yaguo; Guo, Liang; Lin, Jing; Xing, Saibo	Neurocomputing,2018,272:619-628	Xi&Apos;An Jiaotong University;	29
48	Channel Prediction Based Scheduling for Data Dissemination in VANETs	Zeng, Fanhui; Zhang, Rongqing; Cheng, Xiang; Yang, Liuqing	IEEE Communications Letters,2017,21(6):1409-1412	Chinese Academy Of Sciences;Xidian University;Peking University;Colorado State	29

				University;	
50	Big Data Analysis-Based Secure Cluster Management for Optimized Control Plane in Software-Defined Networks	Wu, Jun; Dong, Mianxiong; Ota, Kaoru; Li, Jianhua; Guan, Zhitao	IEEE Transactions On Network And Service Management,2018,15(1):27-38	Muroran Institute Of Technology;Shanghai Jiao Tong University;North China Electric Power University;	27
49	Feature selection based on maximal neighborhood discernibility	Wang, Changzhong; He, Qiang; Shao, Mingwen; Hu, Qinghua	International Journal Of Machine Learning And Cybernetics,2018,9(11):1929-1940	Beijing University Of Civil Engineering & Architecture;Tianjin University;China University Of Petroleum;Bohai University;	27
51	Simultaneous Wireless Information and Power Transfer (SWIPT): Recent Advances and Future Challenges	Perera, Tharindu D. Ponnimbaduge; Jayakody, Dushantha Nalin K.; Sharma, Shree Krishna; Chatzinotas, Symeon; Li, Jun	IEEE Communications Surveys And Tutorials,2018,20(1):264-302	Nanjing University Of Science & Technology;Western University (University Of Western Ontario);University Of Luxembourg;Tomsk Polytechnic University;Southeast University - China;Qatar Foundation;	27
52	Joint Offloading and Computing Optimization in Wireless Powered Mobile-Edge Computing Systems	Wang, Feng; Xu, Jie; Wang, Xin; Cui, Shuguang	IEEE Transactions On Wireless Communications,2018,17(3):1784-1797	Fudan University;University Of California System;University Of California Davis;Shenzhen Res Inst Big Data;Guangdong University Of Technology;	26

53	Feature Selection: A Data Perspective	Li, Jundong; Cheng, Kewei; Wang, Suhang; Morstatter, Fred; Trevino, Robert P.; Tang, Jiliang; Liu, Huan	ACM Computing Surveys,2018,50(6),Article Number 94	Arizona State University;Michigan State University;	26
54	Deep learning for healthcare applications based on physiological signals: A review	Faust, Oliver; Hagiwara, Yuki; Hong, Tan Jen; Lih, Oh Shu; Acharya, U. Rajendra	Computer Methods And Programs In Biomedicine,2018,161:1-13	Na-Ngee Ann Polytech;Universiti Malaya;Singapore University Of Social Sciences (Suss);Sheffield Hallam University;	25
55	IoT security: Review, blockchain solutions, and open challenges	Khan, Minhaj Ahmad; Salah, Khaled	Future Generation Computer Systems-The International Journal Of Escience,2018,82:395-411	Bahauddin Zakariya University;Khalifa University Of Science & Technology;	24
56	How Can Heterogeneous Internet of Things Build Our Future: A Survey	Qiu, Tie; Chen, Ning; Li, Keqiu; Atiquzzaman, Mohammed; Zhao, Wenbing	IEEE Communications Surveys And Tutorials,2018,20(3):2011-2027	Cleveland State University;University Of Oklahoma System;University Of Oklahoma - Norman;Univ Sys Ohio;Tianjin University;Dalian University Of Technology;	24
57	Generalized Ordered Propositions Fusion Based on Belief Entropy	Li, Y.; Deng, Y.	International Journal Of Computers Communications & Control,2018,13(5):792-807	University Of Electronic Science & Technology Of China;	23
60	An enhanced fuzzy evidential DEMATEL method with its application to identify critical success factors	Han, Yuzhen; Deng, Yong	Soft Computing,2018,22(Si15):5073-5090	Southwest University - China;University Of Electronic Science & Technology Of China;	22

58	Infrared and visible image fusion methods and applications: A survey	Ma, Jiayi; Ma, Yong; Li, Chang	Information Fusion,2019,45:153-178	Wuhan University;	22
59	A Flexible Terminal Approach to Sampled-Data Exponentially Synchronization of Markovian Neural Networks With Time-Varying Delayed Signals	Cheng, Jun; Park, Ju H.; Karimi, Hamid Reza; Shen, Hao	IEEE Transactions On Cybernetics,2018,48(8):2232-2244	Anhui University Of Technology;Yeungnam University;University Of Electronic Science & Technology Of China;Polytechnic University Of Milan;Hubei University For Nationalities;	22
61	An evidential dynamical model to predict the interference effect of categorization on decision making results	He, Zichang; Jiang, Wen	Knowledge-Based Systems,2018,150:139-149	Northwestern Polytechnical University;	22
62	A multi-material level set-based topology optimization of flexoelectric composites	Ghasemi, Hamid; Park, Harold S.; Rabczuk, Timon	Computer Methods In Applied Mechanics And Engineering,2018,332:47-62	Arak Univ Technol;Duy Tan University;Boston University;Bauhaus-Universita t Weimar;	22
63	A new prediction model of battery and wind-solar output in hybrid power system	Mirzapour, Farzaneh; Lakzaei, Mostafa; Varamini, Gohar; Teimourian, Milad; Ghadimi, Noradin	Journal Of Ambient Intelligence And Humanized Computing,2019,10(Si1):77-87	Cmu;Shahid Bahonar University Of Kerman (Sbuk);Islamic Azad University;	19
64	Robust Fuzzy Adaptive Tracking Control for Nonaffine Stochastic Nonlinear Switching Systems	Wang, Huanqing; Liu, Peter Xiaoping; Niu, Ben	IEEE Transactions On Cybernetics,2018,48(8):2462-2471	Beijing Jiaotong University;Carleton University;Bohai University;	19

65	Joint Range-Doppler-Angle Estimation for Intelligent Tracking of Moving Aerial Targets	Wan, Liangtian; Kong, Xiangjie; Xia, Feng	IEEE Internet Of Things Journal,2018,5(Si3):1625-1636	Dalian University Of Technology;	19
66	Fuzzy theoretic approach to signals and systems: Static systems	Kumar, Mohit; Mao, Yihua; Wang, Yuhao; Qiu, Taorong; Yang Chenggen; Zhang, Weiping	Information Sciences,2017,418:668-702	Nanchang University;Zhejiang University;University Of Rostock;	19
67	Semi-Supervised Learning with Generative Adversarial Networks on Digital Signal Modulation Classification	Tu, Ya; Lin, Yun; Wang, Jin; Kim, Jeong-Uk	CMC-Computers Materials & Continua,2018,55(2):243-254	Changsha University Of Science & Technology;Yangzhou University;Sang Myung University;Harbin Engineering University;	18
68	Adaptive Neural Control for Robotic Manipulators With Output Constraints and Uncertainties	Zhang, Shuang; Dong, Yiting; Ouyang, Yuncheng; Yin, Zhao; Peng, Kaixiang	IEEE Transactions On Neural Networks And Learning Systems,2018,29(11):5554-5564	Texas Tech University;University Of Science & Technology Beijing;University Of Electronic Science & Technology Of China;Texas Tech University System;	17
69	An integrated approach for failure mode and effects analysis based on fuzzy best-worst, relative entropy, and VIKOR methods	Tian, Zhang-peng; Wang, Jian-qiang; Zhang, Hong-yu	Applied Soft Computing,2018,72:636-646	Central South University;	16
70	Parallel processing algorithm for railway signal fault diagnosis data based on cloud computing	Cao, Yuan; Li, Peng; Zhang, Yuzhuo	Future Generation Computer Systems-The International Journal Of Escience,2018,88:279-283	Beijing Jiaotong University;	16

71	Polarimetric synthetic aperture radar image segmentation by convolutional neural network using graphical processing units	Wang, Shui-Hua; Sun, Junding; Phillips, Preetha; Zhao, Guihu; Zhang, Yu-Dong	Journal Of Real-Time Image Processing,2018,15(Si3):631-642	Central South University;West Virginia Sch Osteopath Med;University Of Leicester;Henan Polytech University;	16
72	Inter-class sparsity based discriminative least square regression	Wen, Jie; Xu, Yong; Li, Zuoyong; Ma, Zhongli; Xu, Yuanrong	Neural Networks,2018,102:36-47	Harbin Engineering University;University Town Of Shenzhen;Minjiang University;Harbin Institute Of Technology;	15
73	A correlation coefficient for belief functions	Jiang, Wen	International Journal Of Approximate Reasoning,2018,103:94-106	Northwestern Polytechnical University;	14
74	AcTiVis: Visual Exploration of Industry-Scale Deep Neural Network Models	Kahng, Minsuk; Andrews, Pierre Y.; Kalro, Aditya; Chau, Duen Horng (Polo)	IEEE Transactions On Visualization And Computer Graphics,2018,24(1):88-97	Facebook;University System Of Georgia;Georgia Institute Of Technology;	14
75	Automated diagnosis of arrhythmia using combination of CNN and LSTM techniques with variable length heart beats	Oh, Shu Lih; Ng, Eddie Y. K.; Tan, Ru San; Acharya, U. Rajendra	Computers In Biology And Medicine,2018,102:278-287	Nanyang Technological University;Universiti Malaya;Singapore University Of Social Sciences (Suss);Ngee Ann Polytech;National Heart Centre Singapore;Nanyang Technological University & National Institute Of Education (Nie) Singapore;	13

76	Recent Trends in Deep Learning Based Natural Language Processing	Young, Tom; Hazarika, Devamanyu; Poria, Soujanya; Cambria, Erik	IEEE Computational Intelligence Magazine,2018,13(3):55-75	Beijing Institute Of Technology;National University Of Singapore;Nanyang Technological University & National Institute Of Education (Nie) Singapore;Nanyang Technological University;	13
77	Emperor penguin optimizer: A bio-inspired algorithm for engineering problems	Dhiman, Gaurav; Kumar, Vijay	Knowledge-Based Systems,2018,159:20-50	Thapar University;	12
78	A systematic study of the class imbalance problem in convolutional neural networks	Buda, Mateusz; Maki, Atsuto; Mazurowski, Maciej A.	Neural Networks,2018,106:249-259	Duke University;Royal Institute Of Technology;	12
79	Social Sensor Cloud: Framework, Greenness, Issues, and Outlook	Zhu, Chunsheng; Leung, Victor C. M.; Rodrigues, Joel J. P. C.; Shu, Lei; Wang, Lei; Zhou, Huan	IEEE Network,2018,32(5):100-105	China Three Gorges University;University Of Lincoln;University Of British Columbia;Universidade Fortaleza;Nanjing Agricultural University;Itmo University;Dalian University Of Technology;	12
80	New computational approach for exergy and entropy analysis of nanofluid under the impact of Lorentz force through a porous media	Sheikholeslami, M.	Computer Methods In Applied Mechanics And Engineering,2019,344:319-333	Babol Noshirvani University Of Technology;	11

81	Towards converged, collaborative and co-automatic (3C) optical networks	Ji, Yuefeng; Zhang, Jiawei; Wang, Xin; Yu, Hao	Science China-Information Sciences,2018,61(12),Article Number 121301	Beijing University Of Posts & Telecommunications;	10
82	Design of optimal lighting control strategy based on multi-variable fractional-order extremum seeking method	Yin, Chun; Huang, Xuegang; Dadras, Sara; Cheng, YuHua; Cao, Jiuwen; Malek, Hadi; Mei, Jun	Information Sciences,2018,465:38-60	China Aerodynam Res & Dev Ctr;Utah System Of Higher Education;Utah State University;University Of Pretoria;University Of Electronic Science & Technology Of China;Hangzhou Dianzi University;	10
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