
ESI 中计算机科学领域 热点论文信息推送

中国科学院自动化研究所

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ESI 中计算机科学及其相关领域热点论文信息推送

——基于 2018 年 3 月份更新数据

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高居前千分之一的 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 2015 年 10 月到 2017 年 10 月发表的文章中, 在 2017 年 11 月和 12 月两个月内被引次数排名前千分之一的文章。数据更新时间为 2018 年 3 月 15 日。

本期 ESI 发布的计算机科学领域的热点文章共 75 篇, 其中首次入榜文章 31 篇。单篇最高被引 353 次, 最低被引 6 次。首次入榜的篇文章中, 单篇最高被引是 57 次。

排名第一的, 被引 353 次的文章由南京信息工程大学 (NANJING UNIV INFORMAT SCI & TECHNOL) 的 Xia,Zhihua 等人发表在 *IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS* 上的标题为 “**A SECURE AND DYNAMIC MULTI-KEYWORD RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA**”。

首次入榜的文章中, 排名第一的被引 57 次的文章由韩国成均馆大学 (SUNGKYUNKWAN UNIV) 的 AGIWAL, M 等人合作发表在 *IEEE COMMUN SURV TUTOR*, 标题为 “**NEXT GENERATION 5G WIRELESS NETWORKS: A COMPREHENSIVE SURVEY**”。

附表：ESI 2018 年 3 月更新的计算机科学领域热点论文

注：红色为首次入榜文章或领域；黑色在往期亦是热点文章。

序号	题名	作者	出处	机构	被引次数
1.	A SECURE AND DYNAMIC MULTI-KEYWORD RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA	XIA, ZH;WANG, XH;SUN, XM;WANG, Q	IEEE TRANS PARALL DISTRIB SYS 27 (2): 340-352 FEB 2016	NANJING UNIV INFORMAT SCI & TECHNOL;WUHAN UNIV;	353
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4.	ENABLING PERSONALIZED SEARCH OVER ENCRYPTED OUTSOURCED DATA WITH EFFICIENCY IMPROVEMENT	FU, ZJ;REN, K;SHU, JG;SUN, XM;HUANG, FX	IEEE TRANS PARALL DISTRIB SYS 27 (9): 2546-2559 SEP 1 2016	NANJING UNIV INFORMAT SCI & TECHNOL;SUNY SYSTEM;SUNY BUFFALO;	218
5.	ADAPTIVE NEURAL NETWORK CONTROL OF AN UNCERTAIN ROBOT WITH FULL-STATE CONSTRAINTS	HE, W;CHEN, YH;YIN, Z	IEE TRANS CYBERN 46 (3): 620-629 MAR 2016	UNIV ELECT SCI & TECHNOL CHINA;UNIV SCI & TECHNOL BEIJING;	141
6.	STRUCTURAL MINIMAX PROBABILITY MACHINE	GU, B;SUN, XM;SHENG, VS	IEEE TRANS NEURAL NETW LEARN 28 (7): 1646-1656 JUL 2017	NANJING UNIV INFORMAT SCI & TECHNOL;UNIV CENT ARKANSAS;	130
7.	TOWARD EFFICIENT MULTI-KEYWORD FUZZY SEARCH OVER ENCRYPTED OUTSOURCED DATA WITH ACCURACY IMPROVEMENT	FU, ZJ;WU, XL;GUAN, CW;SUN, XM;REN, K	IEEE TRANS INF FORENSIC SECUR 11 (12): 2706-2716 DEC 2016	NANJING UNIV INFORMAT SCI & TECHNOL;SUNY SYSTEM;SUNY BUFFALO;	127
8.	A PRIVACY-PRESERVING AND COPY-DETERRENCE CONTENT-BASED IMAGE RETRIEVAL SCHEME IN CLOUD COMPUTING	XIA, ZH;WANG, XH;ZHANG, LG;QIN, Z;SUN, XM;REN, K	IEEE TRANS INF FORENSIC SECUR 11 (11): 2594-2608 NOV 2016	NANJING UNIV INFORMAT SCI & TECHNOL;SUNY SYSTEM;SUNY BUFFALO;	120
9.	EFFICIENT ALGORITHM FOR K-BARRIER COVERAGE BASED ON INTEGER LINEAR PROGRAMMING	ZHANG, YH;SUN, XM;WANG, BW	CHINA COMMUN 13 (7): 16-23 JUL 2016	JIANGSU LIGHTNING PROTECT CTR;NANJING UNIV INFORMAT SCI & TECHNOL;	101
10.	IMPLEMENTING SMART FACTORY OF INDUSTRIE 4.0: AN OUTLOOK	WANG, SY;WAN, JF;LI, D;ZHANG, CH	INT J DISTRIB SENS NETW : - 2016	S CHINA UNIV TECHNOL;	97
11.	WEBVRGIS BASED TRAFFIC ANALYSIS AND VISUALIZATION SYSTEM	LI, XM;LV, ZH;WANG, WX;ZHANG, BY;HU, JX;YIN, L;FENG, SZ	ADV ENG SOFTW 93: 1-8 MAR 2016	CHINESE ACAD SCI;SHENZHEN RES CTR DIGITAL CITY ENGN;MINIST LAND & RESOURCES;	91
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14.	THE APPLICATION OF MIMO TO NON-ORTHOGONAL MULTIPLE ACCESS	DING, ZG;ADACHI, F;POOR, HV	IEEE TRANS WIREL COMMUN 15 (1): 537-552 JAN 2016	LANCASTER UNIV;TOHOKU UNIV;PRINCETON UNIV;	75
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16.	EFFECTIVE AND EFFICIENT GLOBAL CONTEXT VERIFICATION FOR IMAGE COPY DETECTION	ZHOU, ZL;WANG, YL;WU, QMJ;YANG, CN;SUN, XM	IEEE TRANS INF FORENSIC SECUR 12 (1): 48-63 JAN 2017	NANJING UNIV INFORMAT SCI & TECHNOL;UNIV WINDSOR;NATL DONG HWA UNIV;	73
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21.	NEXT GENERATION 5G WIRELESS NETWORKS: A COMPREHENSIVE SURVEY	AGIWAL, M;ROY, A;SAXENA, N	IEEE COMMUN SURV TUTOR 18 (3): 1617-1655 2016	SAMSUNG;SUNGKYUNKWAN UNIV;	57
22.	ENERGY-EFFICIENT HYBRID ANALOG AND DIGITAL PRECODING FOR MMWAVE MIMO SYSTEMS WITH LARGE ANTENNA ARRAYS	GAO, XY;DAI, LL;HAN, SF;I, CL;HEATH, RW	IEEE J SEL AREA COMMUN 34 (4): 998-1009 APR 2016	CHINA MOBILE;UNIV TEXAS SYS;UNIV TEXAS AUSTIN;TSING HUA UNIV;	57
23.	A SPECULATIVE APPROACH TO SPATIAL-TEMPORAL EFFICIENCY WITH MULTI-OBJECTIVE OPTIMIZATION IN A HETEROGENEOUS CLOUD ENVIRONMENT	LIU, Q;CAI, WD;SHEN, J;FU, ZJ;LIU, XD;LINGE, N	SECUR COMMUN NETW 9 (17): 4002-4012 NOV 25 2016	NANJING UNIV INFORMAT SCI & TECHNOL;UNIV SALFORD;NAPIER UNIV;	56
24.	ANONYMOUS AUTHENTICATION FOR WIRELESS BODY AREA NETWORKS WITH PROVABLE SECURITY	HE, DB;ZEADALLY, S;KUMAR, N;LEE, JH	IEEE SYST J 11 (4): 2590-2601 DEC 2017	NA-GUILIN UNIV ELEC TECHNOL;WUHAN UNIV;UNIV KENTUCKY;THAPAR UNIV;SANG MYUNG UNIV;	56
25.	ADAPTIVE FUZZY CONTROL DESIGN FOR STOCHASTIC NONLINEAR SWITCHED SYSTEMS WITH ARBITRARY SWITCHINGS AND UNMODELED DYNAMICS	LI, YM;SUI, SA;TONG, SC	IEE TRANS CYBERN 47 (2): 403-414 FEB 2017	LIAONING UNIV TECH;	54
26.	INTERNET OF THINGS IN THE 5G ERA: ENABLERS, ARCHITECTURE, AND BUSINESS MODELS	PALATTELLA, MR;DOHLER, M;GRIECO, A;RIZZO, G;TORSNER, J;ENGEL, T;LADID, L	IEEE J SEL AREA COMMUN 34 (3): 510-527 MAR 2016	ERICSSON;UNIV LUXEMBOURG;UNIV LONDON;UNIV APPL SCI ART WEST SWITZERLAND;POLITECN BARI;KINGS COLL LONDON;	53
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28.	NEURAL NETWORK CONTROL-BASED ADAPTIVE LEARNING DESIGN FOR NONLINEAR SYSTEMS WITH FULL-STATE CONSTRAINTS	LIU, YJ;LI, J;TONG, SC;CHEN, CLP	IEEE TRANS NEURAL NETW LEARN 27 (7): 1562-1571 JUL 2016	LIAONING UNIV TECH;UNIV MACAU;	48
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32.	A GENERAL MIMO FRAMEWORK FOR NOMA DOWNLINK AND UPLINK TRANSMISSION BASED ON SIGNAL ALIGNMENT	DING, ZG;SCHOBBER, R;POOR, HV	IEEE TRANS WIREL COMMUN 15 (6): 4438-4454 JUN 2016	LANCASTER UNIV;UNIV ERLANGEN NUREMBERG;PRINCETON UNIV;	42
33.	MULTIPLE MODES OF ELECTRICAL ACTIVITIES IN A NEW NEURON MODEL UNDER ELECTROMAGNETIC RADIATION	LV, M;MA, J	NEUROCOMPUTING 205: 375-381 SEP 12 2016	LANZHOU UNIV TECHNOL;	41
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35.	EXTENDED DISSIPATIVE STATE ESTIMATION FOR MARKOV JUMP NEURAL NETWORKS WITH UNRELIABLE LINKS	SHEN, H;ZHU, YZ;ZHANG, LX;PARK, JH	IEEE TRANS NEURAL NETW LEARN 28 (2): 346-358 FEB 2017	ANHUI UNIV TECHNOL;YEUNGNAM UNIV;KING ABDULAZIZ UNIV;HARBIN INST TECHNOL;	37
36.	APPLICATIONS OF WIRELESS SENSOR NETWORKS FOR URBAN AREAS: A SURVEY	RASHID, B;REHMANI, MH	J NETW COMPUT APPL 60: 192-219 JAN 2016	COMSATS INST INFORMAT TECHNOL;	36
37.	FUZZINESS BASED SEMI-SUPERVISED	ASHFAQ, RAR;WANG,	INFORM SCIENCES 378: 484-497 FEB 1	KING SAUD UNIV;SHENZHEN UNIV;	28

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38.	BASICS OF META-ANALYSIS: I-2 IS NOT AN ABSOLUTE MEASURE OF HETEROGENEITY	BORENSTEIN, M;HIGGINS, JPT;HEDGES, LV;ROTHSTEIN, HR	RES SYNTH METHODS 8 (1): 5-18 MAR 2017	BARUCH COLL (CUNY);UNIV BRISTOL;NORTHWESTERN UNIV;CUNY SYSTEM;BIOSTAT INC;	28
39.	LOCAL-DPP: AN IMPROVED DNA-BINDING PROTEIN PREDICTION METHOD BY EXPLORING LOCAL EVOLUTIONARY INFORMATION	WEI, LY;TANG, JJ;ZOU, Q	INFORM SCIENCES 384: 135-144 APR 2017	TIANJIN UNIV;UNIV S CAROLINA SYS;UNIV S CAROLINA COLUMBIA;	27
40.	ANALYSIS OF FLOW AND HEAT TRANSFER IN WATER BASED NANOFLUID DUE TO MAGNETIC FIELD IN A POROUS ENCLOSURE WITH CONSTANT HEAT FLUX USING CVFEM	SHEIKHOESLAMI, M;ZEESHAN, A	COMPUT METHOD APPL MECH ENG 320: 68-81 JUN 15 2017	BABOL NOSHIRVANI UNIV TECHNOL;INT ISLAMIC UNIV;	27
41.	NEURAL NETWORK-BASED PASSIVE FILTERING FOR DELAYED NEUTRAL-TYPE SEMI-MARKOVIAN JUMP SYSTEMS	SHI, P;LI, FB;WU, LG;LIM, CC	IEEE TRANS NEURAL NETW LEARN 28 (9): 2101-2114 SEP 2017	CENT S UNIV;VICTORIA UNIV;UNIV ADELAIDE;HARBIN INST TECHNOL;	27
42.	A SEPARATED APPROACH TO CONTROL OF MARKOV JUMP NONLINEAR SYSTEMS WITH GENERAL TRANSITION PROBABILITIES	SHEN, M;PARK, JH;YE, D	IEE TRANS CYBERN 46 (9): 2010-2018 SEP 2016	NANJING TECH UNIV;YEUNGNAM UNIV;NORTHEASTERN UNIV-CHINA;	27
43.	HYPERSPECTRAL IMAGE CLASSIFICATION VIA MULTITASK JOINT SPARSE REPRESENTATION AND STEPWISE MRF OPTIMIZATION	YUAN, Y;LIN, JZ;WANG, Q	IEE TRANS CYBERN 46 (12): 2966-2977 DEC 2016	CHINESE ACAD SCI;XIAN INST OPTIC PRECISION MECH CAS;STATE KEY LAB TRANSIENT OPT;NORTHWESTERN POLYTECH UNIV;	27
44.	ENDOSCOPE ANALYSIS ON PERISTALTIC BLOOD FLOW OF SISO FLUID WITH TITANIUM MAGNETO-NANOPARTICLES	BHATTI, MM;ZEESHAN, A;ELLAHI, R	COMPUT BIOL MED 78: 29-41 NOV 1 2016	INT ISLAMIC UNIV;SHANGHAI UNIV;	26

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51.	DISTANCE LEARNING TECHNIQUES FOR ONTOLOGY SIMILARITY MEASURING AND ONTOLOGY MAPPING	GAO, W;FARAHANI, MR;ASLAM, A;HOSAMANI, S	CLUSTER COMPUT 20 (2): 959-968 SP. ISS. SI JUN 2017	IRAN UNIV SCI & TECHNOL;YUNNAN NORMAL UNIV;UNIV ENGN & TECH;RANI CHANNAMMA UNIV;	18
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57.	CONSTRUCTING THE L2-GRAPH FOR ROBUST SUBSPACE LEARNING AND SUBSPACE CLUSTERING	PENG, X;YU, ZD;YI, Z;TANG, HJ	IEE TRANS CYBERN 47 (4): 1053-1066 APR 2017	CARNEGIE MELLON UNIV;SICHUAN UNIV;RES AGCY SCI TECHNOL & RES;	15
58.	AUTOMATED SCREENING SYSTEM FOR RETINAL HEALTH USING BI-DIMENSIONAL EMPIRICAL MODE DECOMPOSITION AND INTEGRATED INDEX	ACHARYA, UR;MOOKIAH, MRK;KOH, JEW;TAN, JH;BHANDARY, SV;RAO, AK;FUJITA,	COMPUT BIOL MED 75: 54-62 AUG 1 2016	NA-IWATE PREFECTURAL UNIV;UNIV MALAYA;TAN TOCK SENG HOSP;SINGAPORE UNIV SOCIAL SCI;NGEE ANN POLYTECH;MANIPAL UNIV;	14

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60.	STATIC OUTPUT FEEDBACK CONTROL OF NONHOMOGENEOUS MARKOVIAN JUMP SYSTEMS WITH ASYNCHRONOUS TIME DELAYS	CHENG, J;PARK, JH;KARIMI, HR;ZHAO, XD	INFORM SCIENCES 399: 219-238 AUG 2017	BOHAI UNIV;YEUNGNAM UNIV;POLYTECH UNIV MILAN;HUBEI UNIV NATIONALITIES;	14
61.	DISTRIBUTED ADAPTIVE NEURAL CONTROL FOR STOCHASTIC NONLINEAR MULTIAGENT SYSTEMS	WANG, F;CHEN, B;LIN, C;LI, XH	IEE TRANS CYBERN 47 (7): 1795-1803 JUL 2017	QINGDAO UNIV;SHANDONG UNIV SCI & TECHNOL;	14
62.	OPTIMAL JOINT POWER AND SUBCARRIER ALLOCATION FOR FULL-DUPLEX MULTICARRIER NON-ORTHOGONAL MULTIPLE ACCESS SYSTEMS	YAN, S;NG, DWK;DING, ZG;SCHOBBER, R	IEEE TRANS COMMUN 65 (3): 1077-1091 MAR 2017	LANCASTER UNIV;UNIV NEW S WALES;UNIV ERLANGEN NUREMBERG;UNIV BRITISH COLUMBIA;	13
63.	ROBUST FUZZY 3D PATH FOLLOWING FOR AUTONOMOUS UNDERWATER VEHICLE SUBJECT TO UNCERTAINTIES	XIANG, XB;YU, CY;ZHANG, Q	COMPUT OPER RES 84: 165-177 AUG 2017	HUAZHONG UNIV SCI & TECHNOL;	13
64.	IPRIVACY: IMAGE PRIVACY PROTECTION BY IDENTIFYING SENSITIVE OBJECTS VIA DEEP MULTI-TASK LEARNING	YU, J;ZHANG, BP;KUANG, ZZ;LIN, D;FAN, JP	IEEE TRANS INF FORENSIC SECUR 12 (5): 1005-1016 MAY 2017	BEIJING JIAOTONG UNIV;XIAMEN UNIV;UNIVERSITY OF NORTH CAROLINA;UNIV NORTH CAROLINA CHARLOTTE;UNIV MISSOURI SYSTEM;SHANGHAI INST OPT FINE MECH;PURDUE UNIV SYS;PURDUE	11

				UNIV;NANYANG TECHNOL UNIV + NIE;NANYANG TECHNOL UNIV;MISSOURI UNIV SCI & TECHNOL;HANGZHOU DIANZI UNIV;CHINESE ACAD SCI;CHINA UNIV PETR;	
65.	COMMUNICATIONS AND SIGNALS DESIGN FOR WIRELESS POWER TRANSMISSION	ZENG, Y;CLERCKX, B;ZHANG, R	IEEE TRANS COMMUN 65 (5): 2264-2290 MAY 2017	AGCY SCI TECHNOL RES;NATL UNIV SINGAPORE;IMPERIAL COLL LONDON;	11
66.	A NOVEL ALGORITHM TO DETECT GLAUCOMA RISK USING TEXTON AND LOCAL CONFIGURATION PATTERN FEATURES EXTRACTED FROM FUNDUS IMAGES	ACHARYA, UR;BHAT, S;KOH, JEW;BHANDARY, SV;ADELI, H	COMPUT BIOL MED 88: 72-83 SEP 1 2017	MANIPAL UNIV;UNIV SYS OHIO;UNIV MALAYA;SUSS UNIV;OHIO STATE UNIV;NGEE ANN POLYTECH;	10
67.	GRADIENT-DRIVEN PARKING NAVIGATION USING A CONTINUOUS INFORMATION POTENTIAL FIELD BASED ON WIRELESS SENSOR NETWORK	WEI, W;SONG, HB;LI, W;SHEN, PY;VASILAKOS, A	INFORM SCIENCES 408: 100-114 OCT 2017	LULEA UNIV TECH;XIDIAN UNIV;XIAN UNIV TECHNOL;WEST UNIV VIRGINIA;UNIV SYDNEY;	10
68.	AUTOMATED CHARACTERIZATION OF FATTY LIVER DISEASE AND CIRRHOSIS USING CURVELET TRANSFORM AND ENTROPY FEATURES EXTRACTED FROM ULTRASOUND IMAGES	ACHARYA, UR;RAGHAVENDRA, U;FUJITA, H;HAGIWARA, Y;KOH, JEW;HONGTAN, J;SUDARSHAN, VK;VIJAYANANTHAN, A;YEONG, CH;GUDIGAR, A;NG, KH	COMPUT BIOL MED 79: 250-258 DEC 1 2016	NA-IWATE PREFECTURAL UNIV;UNIV MALAYA;SINGAPORE UNIV SOCIAL SCI;NGEE ANN POLYTECH;MANIPAL UNIV;	9
69.	AUTOMATED DIABETIC MACULAR	ACHARYA,	COMPUT BIOL MED 84: 59-68 MAY 1	MANIPAL UNIV;UNIV MALAYA;TAN TOCK	8

	EDEMA (DME) GRADING SYSTEM USING DWT, DCT FEATURES AND MACULOPATHY INDEX	UR;MOOKIAH, MRK;KOH, JEW;TAN, JH;BHANDARY, SV;RAO, AK;HAGIWARA, Y;CHUA, CK;LAUDE, A	2017	SENG HOSP;SINGAPORE UNIV SOCIAL SCI;NGEE ANN POLYTECH;	
70.	COMMUNITY PLAYGROUP SOCIAL MEDIA AND PARENTAL LEARNING ABOUT YOUNG CHILDRENS PLAY	MCLEAN, K;EDWARDS, S;MORRIS, H	COMPUT EDUC 115: 201-210 DEC 2017	AUSTRALIAN CATHOLIC UNIV;DEAKIN UNIV;	7
71.	AUTOMATIC SUBSPACE LEARNING VIA PRINCIPAL COEFFICIENTS EMBEDDING	PENG, X;LU, JW;YI, Z;YAN, R	IEE TRANS CYBERN 47 (11): 3583-3596 NOV 2017	AGCY SCI TECHNOL RES;TSING HUA UNIV;SICHUAN UNIV;	7
72.	EFFECTS OF DIFFERENT INTERACTIONS ON STUDENTS SENSE OF COMMUNITY IN E-LEARNING ENVIRONMENT	LUO, N;ZHANG, ML;QI, D	COMPUT EDUC 115: 153-160 DEC 2017	BEIHANG UNIV;	7
73.	STUDIES OF STUDENT ENGAGEMENT IN GAMIFIED ONLINE DISCUSSIONS	DING, L;KIM, C;OREY, M	COMPUT EDUC 115: 126-142 DEC 2017	UNIV GEORGIA;UNIV SYS GEORGIA;	7
74.	AUTOMATED DETECTION OF PREMATURE DELIVERY USING EMPIRICAL MODE AND WAVELET PACKET DECOMPOSITION TECHNIQUES WITH UTERINE ELECTROMYOGRAM SIGNALS	ACHARYA, UR;SUDARSHAN, VK;RONG, SQ;TAN, Z;LIM, CM;KOH, JEW;NAYAK, S;BHANDARY, SV	COMPUT BIOL MED 85: 33-42 JUN 1 2017	NA-DR TMA PAI MEM ROTARY HOSP;UNIV MALAYA;SINGAPORE UNIV SOCIAL SCI;NGEE ANN POLYTECH;MANIPAL UNIV;	6
75.	A COMPREHENSIVE TEXT ANALYSIS OF LECTURE SLIDES TO GENERATE CONCEPT MAPS	ATAPATTU, T;FALKNER, K;FALKNER, N	COMPUT EDUC 115: 96-113 DEC 2017	UNIV ADELAIDE;	6

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