

# IEL Newsletter

— 2015年12月特刊：2014年IEEE期刊影响因子及相关评价指标情况概览

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IEEE 成立于 1884 年，是全球最大的技术行业协会，凭借其多样化的出版物、会议、教育论坛和开发标准，在激励未来几代人进行技术创新方面做出了巨大的贡献，其数据库产品 IEL (IEEE/IET Electronic Library) 自 2001 年进入中国以来，为中国的学者和研究人员提供了世界领先的科技信息。

## ■ 影响因子、特征因子分值及论文影响分值的概念和介绍

影响因子 (Impact Factor 简称 IF) 是美国 ISI (科学信息研究所) 的 JCR (Journal Citation Reports) 中的一项数据，即某期刊前两年发表的论文在统计当年的被引用总次数除以该期刊前两年内发表的论文总数。它是一种测试期刊有用性和显示度的指标，也是测度期刊的学术水平，乃至论文质量的有用指标。

特征因子分值涵盖了前五年发表的文献在 JCR 统计当年的被引用次数，同时也统计了高被引期刊。特征因子分值越高，其学术影响力也越大。

论文影响分值代表了该期刊文献在出版后第一个五年内的平均影响。

IEEE 出版的 IEL 数据库蕴含当今科技领域权威的科研信息。IEL 在电子电气工程、通讯技术、计算机科学、人工智能、机器人、自动化控制和遥感领域的期刊影响因子、特征因子分值和论文影响分值都名列前茅。

## ■ IEEE 期刊的影响因子在各个学科领域的排名情况

### 电气与电子工程领域

Rank	Title
1	IEEE Transactions on Fuzzy Systems
2	IEEE Transactions on Industrial Electronics
3	IEEE Transactions on Power Electronics
4	IEEE Signal Processing Magazine
5	IEEE Transactions on Pattern Analysis and Machine Intelligence
6	IEEE Wireless Communications Magazine
7	Proceedings of the IEEE
8	IEEE Transactions on Neural Networks and Learning Systems
9	IEEE Transactions on Smart Grid
10	IEEE Industrial Electronics Magazine
11	IEEE Communications Magazine
13	IEEE Transactions on Sustainable Energy
14	IEEE Transactions on Image Processing
15	IEEE Transactions on Geoscience and Remote Sensing
16	IEEE Journal on Selected Areas in Communications
17	IEEE/ASME Transactions on Mechatronics
18	IEEE Transactions on Medical Imaging

### 通信领域

Rank	Title
1	IEEE Communications Surveys and Tutorials
2	IEEE Wireless Communications Magazine
3	IEEE Communications Magazine

4	IEEE Journal on Selected Areas in Communications
5	IEEE/OSA Journal of Lightwave Technology
6	IEEE Transactions on Mobile Computing
7	IEEE Network
8	IEEE Transactions on Wireless Communications
9	IEEE Transactions on Multimedia
10	IEEE Transactions on Antennas and Propagation
12	Journal of Optical Communications and Networking
13	IEEE Transactions on Communications
14	IEEE Systems Journal
15	IEEE Transactions on Vehicular Technology

### 计算机科学人工智能领域

Rank	Title
1	IEEE Transactions on Fuzzy Systems
3	IEEE Transactions on Systems, Man and Cybernetics: Part B—Cybernetics
4	IEEE Transactions on Pattern Analysis and Machine Intelligence

### 计算机科学控制论领域

Rank	Title
1	IEEE Transactions on Systems, Man and Cybernetics: Part B—Cybernetics
2	IEEE Transactions on Cybernetics
5	IEEE Transactions on Affective Computing

### 计算机科学硬件结构领域

Rank	Title
1	IEEE Wireless Communications Magazine
2	IEEE Transactions on Neural Networks and Learning Systems
4	IEEE Network

### 自动化控制领域

Rank	Title
1	IEEE Transactions on Industrial Electronics
2	IEEE Transactions on Systems, Man and Cybernetics: Part B—Cybernetics
3	IEEE/ASME Transactions on Mechatronics

### 影像学和摄影技术领域

Rank	Title
2	IEEE Transactions on Geoscience and Remote Sensing
3	IEEE Transactions on Medical Imaging
5	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

### 计算机科学信息系统领域

Rank	Title
1	IEEE Communications Surveys and Tutorials
2	IEEE Wireless Communications Magazine

### 计算机科学理论与方法领域

Rank	Title
1	IEEE Transactions on Neural Networks and Learning Systems
4	IEEE Transactions on Evolutionary Computation

**机器人技术领域**

Rank	Title
2	IEEE Transactions on Robotics
3	IEEE Robotics and Automation Magazine

**航空航天工程领域**

Rank	Title
2	IEEE Transactions on Aerospace and Electronic Systems

**制造工程领域**

Rank	Title
1	IEEE/ASME Transactions on Mechatronics

**机械工程领域**

Rank	Title
3	IEEE/ASME Transactions on Mechatronics

**仪器与仪表领域**

Rank	Title
1	IEEE Transactions on Industrial Electronics

**遥感技术领域**

Rank	Title
2	IEEE Transactions on Geoscience and Remote Sensing

**IEEE 期刊影响因子、特征因子分值和论文影响分值一览 —— 据影响因子排名**

IF Rank 2014	Journal Title	ISSN	{2014} Total Cites	Impact Factor	5-Year Impact Factor	Eigenfactor Score	Article Influence Score
1	IEEE Transactions on Fuzzy Systems	1063-6706	8581	8.746	7.881	0.01281	1.66
2	IEEE Communications Surveys & Tutorial	1553-877X	2788	6.806	8.615	0.01567	3.916
3	IEEE Transactions on Industrial Electronics	0278-0046	27141	6.498	6.498	0.06333	1.6
4	IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics	1083-4419	7317	6.22	6.184	0.01829	2.158
5	IEEE Transactions on Power Electronics	0885-8993	21131	6.008	5.98	0.04013	1.282
6	IEEE Signal Processing Magazine	1053-5888	5989	5.852	5.876	0.01478	2.891
7	IEEE Transactions on Pattern Analysis and Machine Intelligence	0162-8828	29822	5.781	7.762	0.05103	3.32
8	IEEE Wireless Communications	1536-1284	3015	5.417	5.381	0.01696	3.132
9	Proceedings of the IEEE	0018-9219	21017	4.934	7.75	0.04188	3.589
10	IEEE Transactions on Neural Networks and Learning Systems	2162-237X	11936	4.291	4.72	0.01965	1.378
11	IEEE Transactions on Smart Grid	1949-3053	3560	4.252	5.719	0.01649	1.736
12	IEEE Industrial Electronics Magazine	1932-4529	475	4.031	4.823	0.00235	1.873
13	IEEE Communications Magazine	0163-6804	8560	4.007	4.756	0.0384	2.428
14	IEEE Transactions on Sustainable Energy	1949-3029	1329	3.656	4.379	0.00666	1.446
15	IEEE Transactions on Evolutionary Computation	1089-778X	6769	3.654	6.29	0.00832	1.879
16	IEEE Transactions on Image Processing	1057-7149	18836	3.625	4.482	0.04037	1.583
17	IEEE Transactions on Geoscience and Remote Sensing	0196-2892	25780	3.514	4.112	0.03513	1.107
18	IEEE Transactions on Cybernetics	2168-2267	723	3.469	3.475	0.00283	0.994
19	IEEE Journal on Selected Areas in Communications	0733-8716	10120	3.453	3.822	0.03251	2.192
20	IEEE/ASME Transactions on Mechatronics	1083-4435	4067	3.427	3.634	0.0111	1.163

21	IEEE Transactions on Medical Imaging	0278-0062	12720	3.39	4.288	0.0207	1.437
22	IEEE Transactions on Neural Systems and Rehabilitation Engineering	1534-4320	3094	3.188	3.625	0.00712	1.098
23	IEEE Journal of Photovoltaics	2156-3381	1373	3.165	3.17	0.005	0.923
24	IEEE Transactions on Services Computing	1939-1374	558	3.049	3.181	0.00268	1.089
25	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	1939-1404	2331	3.026	3.303	0.00792	0.821
26	IEEE Journal of Solid-State Circuits	0018-9200	13775	3.009	3.712	0.03475	1.603
27	Journal of Lightwave Technology	0733-8724	15624	2.965	2.636	0.03554	0.891
28	IEEE Journal of Selected Topics in Quantum Electronics	1077-260X	7868	2.828	3.387	0.02115	1.312
29	IEEE Transactions on Power Systems	0885-8950	17511	2.814	3.899	0.02492	1.061
30	IEEE Transactions on Signal Processing	1053-587X	22944	2.787	3.435	0.06161	1.473
31	IEEE Transactions on Automatic Control	0018-9286	27226	2.779	3.713	0.05045	1.769
32	IEEE Electron Device Letters	0741-3106	11777	2.754	2.766	0.03424	0.892
33	IEEE Transactions on Affective Computing	1949-3045	347	2.675	3.187	0.00175	1.029
34	IEEE Transactions on Circuits and Systems for Video Technology	1051-8215	5645	2.615	2.67	0.0132	0.963
35	IEEE Computational Intelligence Magazine	1556-603X	600	2.571	3.483	0.00161	1.138
36	IEEE Transactions on Mobile Computing	1536-1233	3799	2.543	3.011	0.01544	1.353
37	IEEE Network	0890-8044	1440	2.54	3.234	0.00562	1.694
38	IEEE Circuits and Systems Magazine	1531-636X	471	2.517	2.93	0.0015	1.097
39	IEEE Transactions on Wireless Communications	1536-1276	12617	2.496	2.82	0.05447	1.326
40	IEEE Transactions on Information Technology in Biomedicine	1089-7771	2630	2.493	2.873	0.00667	0.787
41	IEEE Transactions on Biomedical Circuits and Systems	1932-4545	1168	2.482	3.209	0.00648	1.398
42	IEEE Transactions on Audio, Speech, and Language Processing	1558-7916	3844	2.475	2.604	0.0107	0.697
43	IEEE Transactions on Control Systems Technology	1063-6536	5932	2.474	2.987	0.0146	1.127
44	IEEE Transactions on Electron Devices	0018-9383	17052	2.472	2.512	0.03266	0.79
45	IEEE Transactions on Robotics	1552-3098	7618	2.432	3.358	0.01429	1.544
46	IEEE Transactions on Automation Science and Engineering	1545-5955	1562	2.428	2.499	0.00523	0.768
47	IEEE Robotics & Automation Magazine	1070-9932	1230	2.413	2.526	0.00313	1.14
48	IEEE Transactions on Information Forensics and Security	1556-6013	2376	2.408	2.818	0.00957	0.982
49	IEEE Transactions on Circuits and Systems I: Regular Papers	1549-8328	8653	2.403	2.634	0.02715	1.284
50	IEEE Transactions on Intelligent Transportation System	1524-9050	3309	2.377	3.039	0.00787	0.77
51	IEEE Journal of Selected Topics in Signal Processing	1932-4553	2546	2.373	3.681	0.01395	1.869
52	IEEE Transactions on Biomedical Engineering	0018-9294	14435	2.347	2.567	0.02257	0.761
53	IEEE Intelligent Systems	1541-1672	1696	2.34	2.479	0.00336	0.966
54	IEEE Transactions on Energy Conversion	0885-8969	6539	2.326	3.392	0.01055	1.126
55	IEEE Transactions on Information Theory	0018-9448	30514	2.326	3.002	0.05797	1.447
56	IEEE Transactions on NanoBioscience	1536-1241	882	2.309	2.078	0.0022	0.679
57	IEEE Transactions on Multimedia	1520-9210	2956	2.303	2.467	0.01014	1.011
58	IEEE Transactions on Microwave Theory and Techniques	0018-9480	15375	2.243	2.286	0.03802	1.174
59	Journal of Display Technology	1551-319X	1798	2.241	2.262	0.00546	0.671
60	IEEE Photonics Journal	1943-0655	1922	2.209	2.21	0.0105	0.806
61	IEEE Transactions on Antennas and Propagation	0018-926X	20318	2.181	2.346	0.0446	0.889
62	IEEE Transactions on Terahertz Science and Technology	2156-342X	751	2.177	3.406	0.00531	1.615
63	IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews	1094-6977	2459	2.171	2.962	0.00592	1.088
64	IEEE Transactions on Parallel and Distributed Systems	1045-9219	3931	2.17	2.271	0.01222	0.859

65	IEEE Transactions on Visualization and Computer Graphics	1077-2626	4655	2.168	2.482	0.01713	1.032
66	IEEE Photonics Technology Letters	1041-1135	14028	2.11	1.886	0.03146	0.64
67	IEEE Geoscience and Remote Sensing Letters	1545-598X	4502	2.095	2.339	0.01251	0.69
68	IEEE Control Systems	1066-033X	2441	2.088	3.516	0.0043	2.117
69	IEEE Transactions on Knowledge and Data Engineering	1041-4347	5561	2.067	2.873	0.01397	1.16
70	IEEE Transactions on Communications	0090-6778	11357	1.992	1.973	0.03482	1.055
71	Human-Machine Systems, IEEE Transactions on	2168-2291	114	1.982	1.982	0.00029	0.331
72	IEEE Systems Journal	1932-8184	732	1.98	1.899	0.00337	0.693
73	IEEE Transactions on Vehicular Technology	0018-9545	9390	1.978	2.483	0.03595	1.019
74	IEEE Transactions on Reliability	0018-9529	3270	1.934	2.186	0.00552	0.85
75	IEEE Transactions on Device and Materials Reliability	1530-4388	1475	1.89	1.888	0.00336	0.622
76	IEEE Journal of Quantum Electronics	0018-9197	9237	1.887	1.737	0.00897	0.589
77	IEEE Transactions on Broadcasting	0018-9316	1602	1.825	2.108	0.00362	0.599
78	IEEE Transactions on NANOTECHNOL	1536-125X	2381	1.825	1.882	0.00725	0.617
79	IEEE/ACM Transactions on Networking	1063-6692	4787	1.811	2.375	0.0155	1.322
80	IEEE Transactions on Instrumentation and Measurement	0018-9456	7576	1.79	1.707	0.01476	0.46
81	IEEE Sensors Journal	1530-437X	6154	1.762	1.901	0.01837	0.564
82	IEEE Transactions on Aerospace and Electronic Systems	0018-9251	7070	1.757	2.053	0.01025	0.692
83	IEEE Transactions on Industry Applications	0093-9994	10577	1.756	2.275	0.01646	0.819
84	Journal of Microelectromechanical Systems	1057-7157	5347	1.754	2.07	0.00912	0.706
85	IEEE Signal Processing Letters	1070-9908	5004	1.751	1.926	0.01523	0.827
86	IEEE Vehicular Technology	1556-6072	437	1.75	1.669	0.00275	1.081
87	IEEE Transactions on Power Delivery	0885-8977	10791	1.733	2.178	0.01621	0.655
88	IEEE Internet Computing	1089-7801	1532	1.713	2.467	0.00481	1.097
89	IEEE Microwave and Wireless Components Letters	1531-1309	4248	1.703	1.766	0.01786	0.974
90	IEEE Transactions on Systems, Man, and Cybernetics: Systems	2168-2216	3171	1.699	2.254	0.00642	0.703
91	IEEE MultiMedia	1070-986X	592	1.694	1.467	0.00148	0.566
92	IEEE Magnetics Letters	1949-307X	136	1.692	1.833	0.0009	0.789
93	IEEE Transactions on Computers	0018-9340	5706	1.659	1.768	0.00945	0.79
94	IEEE Electrical Insulation Magazine	0883-7554	824	1.643	1.873	0.00185	0.777
95	IEEE Transactions on Software Engineering	0098-5589	3943	1.614	2.35	0.00588	1.146
96	IEEE Power and Energy Magazine	1540-7977	985	1.593	2.327	0.00324	0.981
97	IEEE Antennas and Wireless Propagation Letters	1536-1225	4713	1.579	1.727	0.02589	0.843
98	IEEE Pervasive Computing	1536-1268	1367	1.545	2.698	0.00311	1.139
99	IEEE Journal on Emerging and Selected Topics in Circuits and Systems	2156-3357	278	1.524	1.508	0.00208	0.723
100	IEEE Micro	0272-1732	1244	1.519	1.894	0.00357	1.087
101	IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control	0885-3010	7590	1.512	1.705	0.01238	0.526
102	IEEE Transactions on Computational Intelligence and AI in Games	1943-068X	212	1.481	1.637	0.00142	0.723
103	IEEE Transactions on Autonomous Mental Development	1943-0604	256	1.478	2.205	0.00125	0.704
104	Computer	0018-9162	4235	1.443	2.181	0.00846	1.099
105	IEEE Journal of Biomedical and Health Informatics	2168-2194	243	1.44	1.448	0.00059	0.318
106	IEEE/ACM Transactions on Computational Biology and Bioinformatics	1545-5963	1404	1.438	1.605	0.00559	0.602
107	IEEE Transactions on Haptics,	1939-1412	306	1.41	1.728	0.00128	0.499
108	IEEE Transactions on Magnetics	0018-9464	18845	1.386	1.395	0.03242	0.403

109	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	1063-8210	2911	1.356	1.403	0.01057	0.617
110	IEEE Transactions on DEPEND SECURE	1545-5971	749	1.351	1.652	0.00255	0.716
111	IEEE Antennas and Propagation Magazine	1045-9243	1788	1.319	1.357	0.006	0.767
112	IEEE Transactions on Electromagnetic Compatibility	0018-9375	2944	1.297	1.499	0.00508	0.467
113	IEEE Transactions on Learning Technologies	1939-1382	284	1.283	1.697	0.00132	0.548
114	IEEE Transactions on Nuclear Science	0018-9499	10640	1.283	1.378	0.01689	0.412
115	IEEE Transactions on Dielectrics and Electrical Insulation	1070-9878	4991	1.278	1.55	0.00619	0.309
116	IEEE Communications Letters	1089-7798	5461	1.268	1.342	0.02226	0.615
117	IEEE Transactions on Applied Superconductivity	1051-8223	6699	1.235	1.001	0.01307	0.229
118	IEEE Transactions on Circuits and Systems II: Express Briefs	1549-7747	4164	1.234	1.546	0.01104	0.751
119	IEEE Transactions on Components, Packaging and Manufacturing Technology	2156-3950	3816	1.18	1.264	0.00799	0.429
120	IEEE Journal of Oceanic Engineering	0364-9059	2108	1.175	1.196	0.00277	0.534
121	IEEE Microwave Magazine	1527-3342	921	1.131	1.757	0.00501	1.052
122	IEEE Transactions on Engineering Management	0018-9391	1799	1.103	1.526	0.00207	0.489
123	IEEE Transactions on Plasma Science	0093-3813	7576	1.101	1.089	0.01392	0.329
124	IEEE Software	0740-7459	1591	1.053	1.397	0.0031	0.693
125	IEEE Transactions on Consumer Electronics	0098-3063	3372	1.045	1.161	0.00674	0.325
126	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	0278-0070	3461	1.003	1.36	0.00732	0.547
127	IEEE Transactions on Semiconductor Manufacturing	0894-6507	1088	1	0.933	0.00147	0.28
128	Computing in Science & Engineering	1521-9615	1251	0.99	1.56	0.00277	0.725
129	IEEE Aerospace and Electronic Systems Magazine	0885-8985	661	0.963	0.751	0.00147	0.288
130	IEEE Pulse	2154-2287	144	0.957	0.83	0.00078	0.309
131	IEEE Computer Graphics and Applications	0272-1716	1556	0.911	1.245	0.00224	0.692
132	IEEE Transactions on Education	0018-9359	969	0.842	1.033	0.00169	0.296
133	IEEE Intelligent Transportation Systems Magazine	1939-1390	84	0.821	1.014	0.00041	0.356
134	IT PROF	1520-9202	293	0.819		0.00083	
135	IEEE Spectrum	0018-9235	1012	0.782	0.949	0.0037	0.598
136	IEEE Design & Test	2168-2356	855	0.778	1.342	0.00236	0.66
137	IEEE Security & Privacy	1540-7993	736	0.731	1.192	0.00305	0.616
138	Computer Architecture Letters	1556-6056	141	0.677	1.151	0.00071	0.612
139	Bell Labs Technical Journal	1089-7089	355	0.58	0.631	0.00144	0.336
140	IEEE Annals of the History of Computing	0278-0097	122	0.556	0.403	0.00057	0.278
141	IEEE Instrumentation & Measurement Magazine	1094-6969	310	0.538	0.647	0.00061	0.207
142	IEEE Industry Applications Magazine	1077-2618	492	0.352	0.628	0.00109	0.303
143	IEEE Latin America Transactions	1548-0992	305	0.326	0.322	0.00061	0.053
144	Canadian Journal of Electrical and Computer Engineering	0840-8688	59	0.227	0.294	0.00009	0.109
145	IEEE ANN HIST COMPUT	1058-6180	194	0.217	0.455	0.00037	0.215
146	IEEE/ACM Transactions on Audio, Speech, and Language Processing	2329-9290	33			0.00001	

\* 数据来自 2015 年 6 月公布的 2014 年 JCR 期刊引用报告

