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光学工程、仪器科学与技术学科重点期刊目录修订表（2019版）

一级学科		光学工程、仪器科学与技术		学院		光电学院					
序号	级别	刊名	刊名简称	ISSN号	国别	JCR分区情况		影响因子		备注	是否新增
						大类名称	小类分区（最新）	最近一年影响因子	最近三年平均影响因子		
顶级期刊：1区+2区Top											
1	顶级期刊	ACM TRANSACTIONS ON GRAPHICS	ACM T GRAPHIC	0730-0301	美国	工程技术	1区	4.384	4.230	大类Top期刊， CCF图形学A类期刊	否
2	顶级期刊	ACS Photonics	ACS PHOTONICS	2330-4022	美国	工程技术	2区	6.880	6.347	大类Top期刊	是
3	顶级期刊	ADVANCED MATERIALS	ADV MATER	0935-9648	美国	工程技术	1区	21.950	20.234	大类Top期刊	否
4	顶级期刊	Advanced Optical Materials	ADV OPT MATER	2195-1071	美国	工程技术	1区	7.430	6.555	大类Top期刊	是
5	顶级期刊	Advances in Optics and Photonics	ADV OPT PHOTONICS	1943-8206	美国	物理	1区	21.286	17.162	大类Top期刊	否
6	顶级期刊	HUMAN-COMPUTER INTERACTION	HUM-COMPUT INTERACT	0737-0024	美国	工程技术	1区	3.379	3.915	大类Top期刊	是
7	顶级期刊	IEEE TRANSACTIONS ON MEDICAL IMAGING	IEEE T MED IMAGING	0278-0062	美国	医学	2区	6.131	4.610	大类Top期刊， 医学图像处理顶级期刊	是
8	顶级期刊	Journal of Astronomical Telescopes Instruments and Systems	J ASTRON TELESC INST	2329-4124	美国	工程技术	2区	2.688	3.094	大类Top期刊	是
9	顶级期刊	Laser & Photonics Reviews	LASER PHOTONICS REV	1863-8880	美国	物理	1区	8.529	8.150	大类Top期刊	否
10	顶级期刊	Light-Science & Applications	LIGHT-SCI APPL	2047-7538	中国	物理	1区	13.625	13.774	大类Top期刊	否
11	顶级期刊	MASS SPECTROMETRY REVIEWS	MASS SPECTROM REV	0277-7037	美国	物理	1区	9.526	9.415	大类Top期刊	否
12	顶级期刊	MEDICAL IMAGE ANALYSIS	MED IMAGE ANAL	1361-8415	荷兰	工程技术	2区	5.356	4.703	大类Top期刊， 医学图像处理顶级期刊	是
13	顶级期刊	Nanophotonics	NANOPHOTONICS-BERLIN	2192-8606	德国	工程技术	2区	6.014	4.946	大类Top期刊	否

序号	级别	刊名	刊名简称	ISSN号	国别	JCR分区情况		影响因子		备注	是否新增
						大类名称	小类分区（最新）	最近一年影响因子	最近三年平均影响因子		
重要期刊：光学领域国际4区											
1	重要期刊	APPLIED OPTICS	APPL OPTICS	1559-128X	美国	工程技术	4区	1.791	1.680	光学领域的知名期刊，影响力大，引用率高，影响因子在提升。	是
2	重要期刊	OPTICS COMMUNICATIONS	OPT COMMUN	0030-4018	荷兰	光学	4区	1.887	1.652	光学领域知名期刊，影响力大（2018年诺贝尔奖获得者在此刊发表论文）	是
重要期刊：光学领域中文重要期刊和一级学会学报											
1	重要期刊	《中国科学》（中文版、英文版）								国内重要期刊	是
2	重要期刊	《科学通报》（中文版、英文版）								国内重要期刊	是
3	重要期刊	《光学学报》（Chinese Optics Letters）（中文版、英文版）								国内一级学会学报	是
4	重要期刊	《仪器仪表学报》								国内一级学会学报	是

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北京理工大学自动化学院

重点期刊修订目录说明

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2. GPS Solutions

GPS Solutions is a quarterly scientific journal covering system design issues and a full range of current and emerging applications of global navigation satellite systems (GNSS) such as GPS, GLONASS, Galileo and various augmentations. Prime interest is devoted to novel, innovative, or highly demanding uses. Areas of application include: aviation, surveying and mapping, forestry and agriculture, maritime and waterway navigation, public transportation, time and frequency comparisons and dissemination, space and satellite operations, law enforcement and public safety, communications, meteorology and atmospheric science, geosciences, monitoring global change, technology and engineering, GIS, geodesy, and more.

GPS

GNSS

GPS GLONASS

GIS

4.727

3. IEEE Transactions on Vehicular Technology

The IEEE Transactions on Vehicular Technology is dedicated to the publication of peer-reviewed original contributions of research regarding the theory and practice of electrical and electronics technology in vehicles and vehicular systems. The intended audience is comprised of engineers, researchers, educators, and graduate students of vehicular technology concepts and theory in academia, industry, and government. The audience of the Transactions on Vehicular Technology is predominantly the scholarly community conducting research on various aspects of engineering and technology in academic institutions, industrial organizations, research centers and government agencies.

IEEE

IEEE

4.432

4. IEEE Transactions on Control Systems Technology

The IEEE Transactions on Control Systems Technology publishes high quality technical papers on technological advances in control engineering. Control Systems Technology includes all aspects of control engineering needed to implement practical control systems, from analysis and design, through simulation and hardware. A primary purpose of the IEEE Transactions on Control Systems Technology is to have an archival publication which will bridge the gap between theory and practice. Papers are published in the IEEE Transactions on Control System Technology which disclose significant new knowledge, exploratory developments, or practical applications in all aspects of technology needed to implement control systems, from analysis and design through simulation, and hardware.

IEEE

IEEE

4.883

6. IEEE Transactions on Automation Science and Engineering

The IEEE Transactions on Automation Science and Engineering (T-ASE) publishes fundamental papers on Automation, emphasizing scientific results that advance efficiency, quality, productivity, and reliability. T-ASE encourages interdisciplinary approaches from computer science, control systems, electrical engineering, mathematics, mechanical engineering, operations research, and other fields. T-ASE welcomes results relevant to industries such as agriculture, biotechnology, healthcare, home automation, maintenance, manufacturing, pharmaceuticals, retail, security, service, supply chains, and transportation. T-ASE addresses a research community willing to integrate knowledge across disciplines and industries.

IEEE T-ASE

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T-ASE

3.667

7. IEEE Transactions on Circuits and Systems I: Regular Papers

TCAS I publishes regular papers in the field specified by the theory, analysis, design, and practical implementations of circuits, and the application of circuit techniques to systems and to signal processing. Included is the whole spectrum from basic scientific theory to industrial applications. The field of interest covered includes: - Circuits: Analog, Digital and Mixed Signal Circuits and Systems - Nonlinear Circuits and Systems, Integrated Sensors, MEMS and Systems on Chip, Nanoscale Circuits and Systems, Optoelectronic - Circuits and Systems, Power Electronics and Systems - Software for Analog-and-Logic Circuits and Systems - Control aspects of Circuits and Systems.

TCAS I

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MEMS -

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8. ISA Transactions

ISA Transactions is a journal of advances and state-of-the-art in the science and engineering of measurement and automation, of value to leading-edge industrial practitioners and applied researchers. The topics of measurement include: sensors, perception systems, analyzers, signal processing, filtering, data compression, data rectification, fault detection, inferential measurement, soft sensors, hardware interfacing, etc.; and any of the techniques that support them such as artificial intelligence, fuzzy logic, communication systems, and process analysis. The intended audience is research and development personnel from academe and industry in the fields of control systems, process instrumentation, systems, and automation.

ISA

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3.370

9. IEEE Robotics & Automation Magazine

IEEE Robotics & Automation Magazine is a unique technology publication which is peer-reviewed, readable and substantive. IEEE Transactions on Robotics and IEEE Transactions on Automation Science and Engineering publish advances in theory and experiment that underpin the science of robotics and automation. The Magazine complements these publications and seeks to present new scientific results to the practicing engineer through a focus on working systems and emphasizing creative solutions to real-world problems and highlighting implementation details.

IEEE

IEEE IEEE

3.573

10. IEEE Transactions on Power Systems

The scope of this Transactions covers the requirements, planning, analysis, reliability, operation, and economics of electric generating, transmission, and distribution systems for general industrial, commercial, public, and domestic consumption. The main focus of the IEEE Transactions on Power Systems is the power system from a systems viewpoint instead of components of the system. It has five (5) key areas within its scope with several subdivisions within each area. These areas are: (1) Power Engineering Education, (2) Power System Analysis, Computing, and Economics, (3) Power System Dynamic Performance, (4) Power System Operations, and (5) Power System Planning and Implementation.

IEEE

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11. IEEE Transactions on Image Processing

The IEEE Transactions on Image Processing covers novel theory, algorithms, and architectures for the formation, capture, processing, communication, analysis, and display of images, video, and multidimensional signals in a wide variety of applications. Topics of interest include, but are not limited to, the mathematical, statistical, and perceptual modeling, representation, formation, coding, filtering, enhancement, restoration, rendering, halftoning, search, and analysis of images, video, and multidimensional signals. Applications of interest include image and video communications, electronic imaging, biomedical imaging, image and video systems, and remote sensing.

IEEE

5.071

12. IEEE Transactions on Biomedical Engineering

Basic and applied papers dealing with biomedical engineering. Papers range from engineering development in methods and techniques with biomedical applications to experimental and clinical investigations with engineering contributions.

4.288

13. IEEE Transactions on Biomedical Circuits and Systems

The IEEE Transactions on Biomedical Circuits and Systems addresses areas at the crossroads of Circuits and Systems and Life Sciences. The main emphasis is on microelectronic issues in a wide range of applications found in life sciences, physical sciences and engineering. The primary goal of the journal is to bridge the unique scientific and technical activities of the Circuits and Systems Society to a wide variety of related areas General, theoretical, and application-oriented papers in the abovementioned technical areas with a Circuits and Systems perspective are encouraged to publish in TBioCAS. Of special interest are biomedical-oriented papers with a Circuits and Systems angle.

14. IEEE Intelligent Systems

IEEE Intelligent Systems serves users, managers, developers, researchers, and purchasers who are interested in intelligent systems and artificial intelligence. Sample topic areas for feature articles include knowledge-based systems, intelligent software agents, natural-language processing, technologies for knowledge management, machine learning, data mining, adaptive and intelligent robotics, knowledge-intensive processing on the Web, and social issues relevant to intelligent systems. Also encouraged are application features, covering practice at one or more companies or laboratories; full-length product stories; tutorials; surveys; and case studies.

IEEE Intelligent Systems

Web

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2.596

15. IEEE Intelligent Transportation Systems Magazine

The IEEE Intelligent Transportation Systems Magazine (ITSM) provide innovative research ideas and application results, report significant application case studies, and raise awareness of pressing research and application challenges in all areas of intelligent transportation systems. In contrast to the highly academic publication of the IEEE Transactions on Intelligent Transportation Systems, the ITS Magazine focuses on providing needed information to all members of IEEE ITS society, serving as a dissemination vehicle for ITS Society members. High quality tutorials, surveys, successful implementations, technology reviews, lessons learned, policy and societal impacts, and ITS educational issues are published as well.

IEEE ITSM

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16. Pattern Recognition

Pattern Recognition is a mature but exciting and fast developing field, which underpins developments in cognate fields such as computer vision, image processing, text and document analysis and neural networks. Over the intervening years it has expanded considerably.The journal accepts papers making original contributions to the theory, methodology and application of pattern recognition in any area, provided that the context of the work is both clearly explained and grounded in the pattern recognition literature. Papers whos primary concern falls outside the pattern recognition domain and which report routine applications of it using existing or well known methods, should be directed elsewhere.

3.962

17 IEEE Transactions on Aerospace and Electronic Systems

IEEE Transactions on Aerospace and Electronic Systems focuses on the organization, design, development, integration, and operation of complex systems for space, air, ocean, or ground environment. These systems include, but are not limited to, navigation, avionics, spacecraft, aerospace power, radar, sonar, telemetry, defense, transportation, automated testing, and command and control.

IEEE

2.063

18. IEEE Transactions on SMC: Systems

The scope of the IEEE Transactions on Systems, Man, and Cybernetics: Systems includes the field of systems engineering. It also includes issue formulation, analysis and modeling, decision making, and issue interpretation for any of the systems engineering lifecycle phases associated with the definition, development, and deployment of large systems. Other topics include systems management, systems engineering processes, and a variety of systems engineering methods such as optimization, modeling and simulation.

IEEE

5.131

19. IEEE Transactions on Human-Machine Systems

The scope of the IEEE Transactions on Human-Machine Systems includes the fields of human machine systems. It covers human systems and human organizational interactions including cognitive ergonomics, system test and evaluation, and human information processing concerns in systems and organizations.

IEEE

2.563

20. Control Engineering Practice

Control Engineering Practice strives to meet the needs of industrial practitioners and industrially related academics and researchers. It publishes papers which illustrate the direct application of control theory and its supporting tools in all possible areas of automation. As a result, the journal only contains papers which can be considered to have made significant contributions to the application of advanced control techniques. Moreover, a thorough analysis of failures that may happen in the design process and implementation can also be part of the paper.

Control Engineering Practice

2.616

21. Journal of Guidance Control and Dynamics

This Journal is devoted to the advancement of the science and technology of guidance, control, and dynamics through the dissemination of original archival papers disclosing significant technical knowledge, exploratory developments, design criteria, and applications in aeronautics, astronautics, celestial mechanics, and related fields. The Journal publishes qualified papers on dynamics, stability, guidance, control, navigation, optimization, electronics, avionics, and information processing related to aeronautical, astronautical, and marine systems. Papers are sought which demonstrate the application of recent research to practical engineering problems.

2.014

22. IEEE Computational Intelligence Magazine

The IEEE Computational Intelligence Magazine (CIM) publishes peer-reviewed articles that present emerging novel discoveries, important insights, or tutorial surveys in all areas of computational intelligence design and applications, in keeping with the Field of Interest of the IEEE Computational Intelligence Society (IEEE/CIS). Additionally, CIM serves as a media of communications between the governing body and its membership of IEEE/CIS. Authors are encouraged to submit papers on applications oriented developments, successful industrial implementations, design tools, technology reviews, computational intelligence education, and applied research.

IEEE CIM

IEEE IEEE

/ CIS CIM IEEE / CIS

6.611

24. Decision Support Systems

The common thread of articles published in Decision Support Systems is their relevance to theoretical and technical issues in the support of enhanced decision making. The areas addressed may include foundations, functionality, interfaces, implementation, impacts, and evaluation of decision support systems (DSSs). Manuscripts may draw from diverse methods and methodologies, including those from decision theory, economics, econometrics, statistics, computer supported cooperative work, data base management, linguistics, management science, mathematical modeling, operations management, cognitive science, psychology, user interface management, and others.

DSS

3.565

25. IEEE Transactions on Energy Conversion

The IEEE Transactions on Energy Conversion includes in its venue the research, development, design, application, construction, installation, operation, analysis and control of electric power generating and energy storage equipment (along with conventional, cogeneration, nuclear, distributed or renewable sources, central station and grid connection). The scope also includes electromechanical energy conversion, electric machinery, devices, systems and facilities for the safe, reliable, and economic generation and utilization of electrical energy for general industrial, commercial, public, and domestic consumption of electrical energy.

IEEE Transactions on Energy Conversion

1. Asian Journal of Control

The Journal provides a forum where control researchers and practitioners can exchange knowledge and experiences on the latest advances in the control areas, and plays an educational role for students and experienced researchers in other disciplines interested in this continually growing field. The scope of the journal is extensive. Topics include: - The theory and design of control systems and components, encompassing - Artificial intelligence, fuzzy and expert systems - Hierarchical and man-machine systems - All parts of systems engineering which consider the reliability of components and systems.

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2. Science CHINA Information Sciences

SCIENCE CHINA Information Sciences (Sci China Inf Sci), cosponsored by the Chinese Academy of Sciences and the National Natural Science Foundation of China, and published by Science China Press, is committed to publishing high-quality, original results of both basic and applied research in all areas of information sciences, including computer science and technology; control science and engineering; information and communication engineering; microelectronics and solid state electronics, etc. Sci China Inf Sci is published monthly in both print and electronic forms. It is indexed by Science Citation Index Expanded (SCIE), Engineering Index (EI), Journal Citation Reports/Science Edition (JCR), et al.

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Sci China Inf Sci Science Citation Index Expanded SCIE Engineering Index EI Journal Citation Reports / Science Edition JCR

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3. Robotica

Robotica is a forum for the multidisciplinary subject of robotics and encourages developments, applications and research in this important field of automation and robotics with regard to industry, health, education and economic and social aspects of relevance. Coverage includes activities in hostile environments, applications in the service and manufacturing industries, biological robotics, dynamics and kinematics involved in robot design and uses, on-line robots, robot task planning, rehabilitation robotics, sensory perception, software in the widest sense, particularly in respect of programming languages and links with CAD/CAM systems, telerobotics and various other areas. In addition, interest is focused on various Artificial Intelligence topics of theoretical and practical interest.

Robotica

CAD / CAM

4. Journal of Intelligent and Robotic Systems

The Journal of Intelligent and Robotic Systems bridges the gap between theory and practice in all areas of intelligent systems and robotics. On the theoretical side, the journal features papers focusing on intelligent systems engineering, distributed intelligence systems, multi-level systems, intelligent control, multi-robot systems, cooperation and coordination of unmanned vehicle systems, etc. On the application side, the journal emphasizes autonomous systems, industrial robotic systems, multi-robot systems, aerial vehicles, mobile robot platforms, underwater robots, sensors, sensor-fusion, and sensor-based control. Readers will also find papers on real applications of intelligent and robotic systems.

1.583

5. IET signal processing

IET Signal Processing publishes novel contributions in signal processing including: Advances in single and multi-dimensional filter design and implementation; Linear and nonlinear, fixed and adaptive digital filters and multirate filter banks; Statistical signal processing techniques and analysis; Classical, parametric and higher order spectral analysis; Signal transformation and compression techniques,; System modelling and adaptive identification techniques; Machine learning based approaches to signal processing and others..

IET

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Journal of Mechanical Engineering

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