



Dear Sir/Madam:

This is the latest news and knowledge service information of the International Knowledge Centre for Engineering Sciences and Technology under the Auspices of UNESCO. We welcome you and thank you for visiting the website (<http://www.ikcest.org>). Best wishes!

尊敬的用户:

您好! 这是联合国教科文组织国际工程科技知识中心 (IKCEST) 本月推送的简报和知识服务信息, 欢迎您访问我们的网站 (<http://www.ikcest.org>) 获取更多精彩内容。
感谢您对IKCEST的支持! 祝好!

Disaster Risk Reduction Knowledge Service (DRR)



News (新闻资讯)

Disaster Risk Reduction Knowledge Service Sub-platform of IKCEST Became Part of The Alliance of International Science Organizations on Disaster Risk Reduction (国际工程科技知识中心防灾减灾知识服务分中心加入国际减灾科学联盟)

Introduction: The alliance of international science organizations on disaster risk reduction was formally established at the International Conference on Silk-road Disaster Risk Reduction and Sustainable Development on May 11th -12th, 2019. The Disaster Risk Reduction Knowledge Service (DRRKS) Sub-platform under the International Knowledge Centre for Engineering Sciences and Technology (IKCEST) joined the alliance.

Source: Disaster Risk Reduction Knowledge Service

Release date: May , 2019

Provided by: Yuelei Yuan

[Details](#)

Scientific Data (科学数据)

Dataset of desertification related land cover distribution along China-Mongolia railway (Mongolia section) in 2015 (2015年中蒙铁路(蒙古段)沿线沙漠化土地覆盖分布数据集)

Introduction: This dataset was the land cover distribution data related to desertification along the China-Mongolia railway (Mongolia section) in 2015. This dataset used the object-oriented remote sensing image interpretation method to obtain the desertification data with a resolution of 30 meters along the China-Mongolia railway (Mongolia section) in 2015. It was collected and organized by the Institute of Geographic Sciences and Natural Resources Research, CAS. It can be used to study the risk assessment of desertification in China-Mongolia railway, providing an important basis for preventing sandstorms, floods and other disasters caused by desertification and alleviating the negative impact of desertification.

Source: Disaster Risk Reduction Knowledge Service

Release date: 2018

Provided by: Yuelei Yuan

[Details](#)

Knowledge application (知识应用)

Map Visualization Services of China Historical Disasters (中国历史灾害地图可视化服务)

Introduction: The DRR platform has published a lot of scanned maps online. Disaster maps of China are listed in the app page. User could get China historical disaster information from visualized maps which was developed based on WebGIS technology.

Source: Disaster Risk Reduction Knowledge Service

Release date: 2017

Provided by: Yuelei Yuan

[Details](#)

Video (视频课件)

UN DRR initiatives and UNESCO Action on DRR (联合国防灾减灾的主动性和联合国教科文组织关于防灾减灾的行动)

Introduction: UNESCO operates at the interface between natural and social sciences, education, culture and communication playing a vital role in constructing a global culture of resilient communities. UNESCO assists countries to build their capacities in managing disaster and climate risk and with their ability to cope with disasters. The Organization provides a forum for governments to work together and it provides essential scientific and practical advice in disaster risk reduction. UNESCO's programmes in relation to the International Strategy for Disaster Reduction (ISDR) cut across all of its areas of competence (education, natural and social sciences, culture and communication). Working alone or in collaboration with both UN Agencies and other scientific entities, UNESCO has been a catalyst for international, inter-disciplinary cooperation in many aspects of disaster risk reduction and mitigation.

Source: Disaster Risk Reduction Knowledge Service

Release date: Dec , 2018

Provided by: Yuelei Yuan

[Details](#)



<http://drr.ikcest.org>

国际工程科技知识中心-防灾减灾知识服务系统

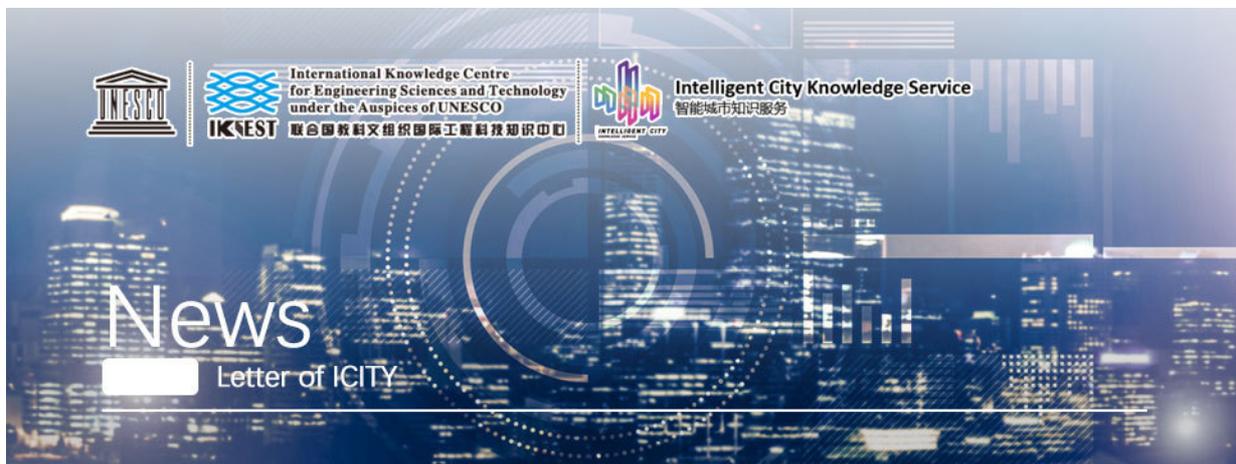
Disaster Risk Reduction Knowledge Service (DRRKS)

International Knowledge Centre for Engineering Sciences and Technology
under the Auspices of UNESCO (IKCEST)

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News (新闻资讯)

The 19th biennial International Planning History Society (IPHS) conference will take place 5–8 July 2020, in Moscow, Russia (第19届国际规划历史学会会议将于2020年7月5日-8日在俄罗斯莫斯科举行)

Introduction: The 19th biennial International Planning History Society (IPHS) conference will take place 5–8 July 2020, in Moscow, Russia. The conference program will consist of diverse events, which include a pre-forum, keynote lecture, research panels of presentations, roundtables, and book talks and field trips. The 2020 IPHS Moscow conference aims to contribute to a deeper understanding of the history of renovations and revitalizations of the built environment by exploring these both as transformation and stability of urban space.

Source: Intelligent City Knowledge Service

Release date: Jun 2019

Provided by: Li Xiang

[Details](#)



Foreign professor of Tongji University were awarded “Top Ten Most Influential People in German Artificial Intelligence” (同济大学外籍教授获评“德国人工智能十大最具影响人物”)

Introduction: Recently, German Academy of Engineering Academician Otthein Herzog was awarded “German Artificial Intelligence” by the German Federal Ministry of Education and Research and the German National Computer Association. Top ten most influential people."

Source: Intelligent City Knowledge Service

Release date: Jun , 2019

Provided by: He Rui

[Details](#)



Scientific Data (科学数据)

Latest GLOBAL CITY RANKING (最新全球城市IQ排名)

Introduction: Statistical Data: The statistical data are acquired from a variety of governmental and third-party sources. Intelligent Knowledge Service System uses advanced simulation models to fill the missing data. 2.Web Crawling Data: Tools were built to capture the data upon keywords from trusted cities’ official websites. The data will be transformed and used for the indication. 3.Survey data: Surveys are conducted using questionnaires concerning several key issues of sustainable development, corresponding to the 5-dimensional evaluation system. 4.Public Opinion Analysis: Based on the CityIQ database, we have added a sub-database, the City Public Opinion Analysis Database (CPOAD) . The CPOAD obtains a large amount of public opinion analysis data from online social media to ensure the database upgrading dynamically and accurately.

Source: Intelligent City Knowledge Service

Release date: Jun , 2019

Provided by: Li Xiang

Details

Knowledge application (知识应用)

Our ability to read and comprehend this project quickly during adjudication was a mark in its favor. Very clear and accessible for non-professional audiences thanks to the graphics and organization.

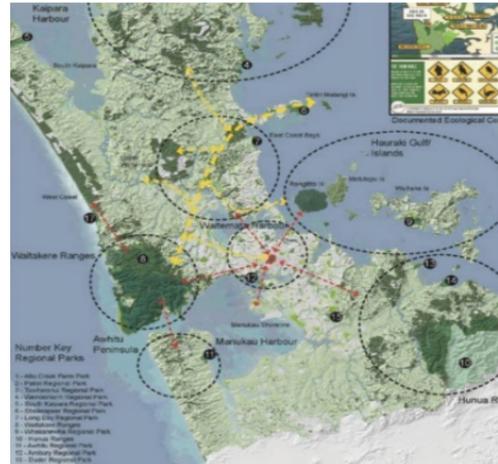
Introduction: The project marks the development of Cornwall Park, one of New Zealand's most valuable urban public spaces. This project provides an extraordinary opportunity to think about a very long time span, and its design needs to strike a balance between the three elements: the Maori cultural landscape, the vision of early settlers and founders, and the agriculture of New Zealand. Landscape and local ecological resources. The master plan considers these three dimensions in parallel with park projects and service infrastructure. The final program expands the capacity of the park to support a healthy urban ecology and will provide visitors of all ages with access to education and relaxation over the next 100 years.

Source: Intelligent City Knowledge Service

Release date: Jun , 2019

Provided by: He Rui

Details



City-zen: Virtual Power Plant (City-zen: 虚拟发电厂)

Introduction: Storage and trade of surplus solar energy through home batteries. Monetizing flexibility using a Virtual Power Plant, which incorporates solar-PV, load and home battery systems. It is not a real power plant but a virtual. Aggregating several small production units, like pv-rooftops, a power plant is created. This project by Greenspread and Alliander is part of City-zen, a European funded project in Amsterdam and Grenoble. Currently already 25 home batteries have been installed at homes in the Amsterdam Nieuw-West district. We are still looking for a few more participants!

Source: Intelligent City Knowledge Service

Release date: Jun , 2019

Provided by: He Rui

Details



Video (视频课件)

The Smart City in Germany - Re-considering Challenges of Sustainable Urban Development (德国智慧城市 - 重新考虑可持续城市发展的挑战)

Introduction: Background of current smart city, background and basic overview of smart city research. Späth, Senior researcher and lecturer at Freiburg University, Building up a research group on "Urban Environmental Governance". Disciplinary background: Political Scientist, Geographer; Phd in STS (Science, Technology & Society) from 2009.

Source: Intelligent City Knowledge Service

Release date: Jun , 2019

Provided by: He Rui

Details



Ecological rivers & urban ecological civilization (生态河流与城市生态文明)

Introduction: Rivers play an important role in human beings, cities and ecosystems. Water quality is an important attribute of rivers. Different governments and countries treat rivers differently. But sometimes the practical effect of river management fails to reach the decision-making goal. We must learn how to plan rivers. Li Jianhua, main research directions :(1) biogeochemical cycle and evaluation methods of aquatic environment; (2) theories and methods of pollution control of lake and reservoir; (3) ecological river construction theory and river rehabilitation technology

Source: Intelligent City Knowledge Service

Release date: May , 2019

Provided by: He Rui



Details



<http://icity.ikcest.org/>

国际工程科技知识中心-智能城市知识服务系统
Intelligent City knowledge Service System (iCity)

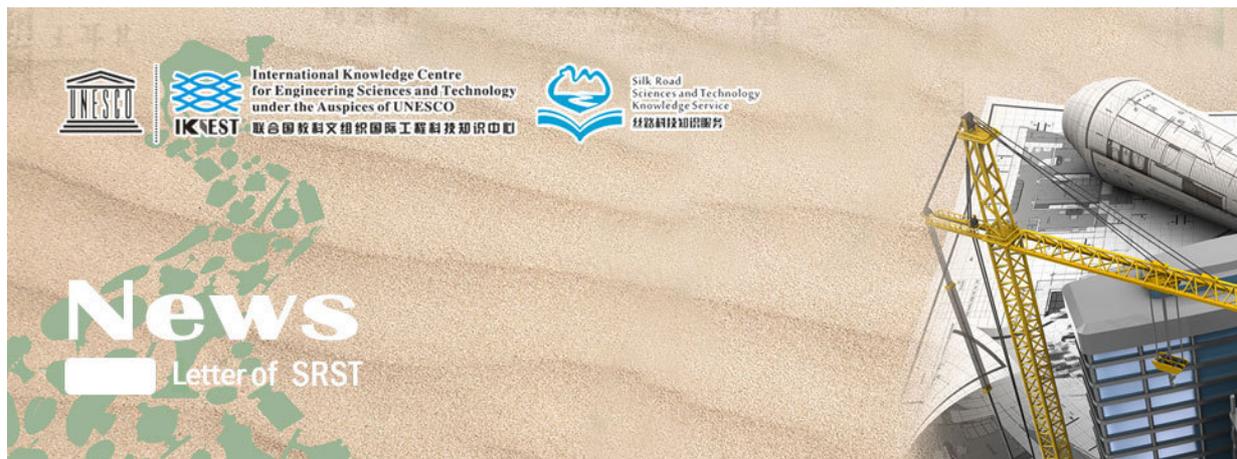
iCity focuses on the field of smart city construction, provides data knowledge services for intelligent city-related practitioners in the world, and supports the construction of smart cities in China.

If you want to know more about us ,please scan the code left.

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Silk Road Sciences and Technology Knowledge Service (SRST)



News (新闻资讯)

The 5th Baidu& Xi'an Jiaotong University Big Data Competition and 1st IKCEST "Belt and Road" International Big Data Competition to be held (2019第五届百度&西交大大数据竞赛暨IKCEST首届“一带一路”国际大数据竞赛即将举办)

Introduction: Jointly organized by the International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, China Knowledge Centre for Engineering Sciences and Technology (CKCEST), Baidu and Xi'an Jiaotong University (XJTU), the big data algorithm contest aims to identify top international talents in the area of big data and artificial intelligence, particularly in countries along the Belt and Road Initiative, in an effort to help the government, industry, and higher education institutions to jointly promote the research, application and development of the big data industry and consolidate the theoretical and practical foundations of the contest and therefore to accelerate the cultivation of innovative AI talents.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Apr , 2019

Provided by: Li Fei

Details

IKCEST Silk Road Training Base: Silk Road Training Programme on Engineering Scientific and Technological Development Held Successfully in Samarkand State University (丝路培训基地：丝路工程科技发展专项培训在撒马尔罕国立大学成功举办)

Introduction: On Apr. 25th, 2019, under the guidance of Chinese Academy of Engineering, the 52nd Silk Road Training Programme on Engineering Scientific and Technological Development was held in the Samarkand State University of Uzbekistan, under the auspices of UNESCO International Knowledge Centre for Engineering Sciences and Technology (IKCEST) and co-organization of Xi'an Jiaotong University, Samarkand State University and IKCEST Silk Road Training Base. Vice-presidents of Samarkand State University Muhtor, Ahmadjon and Hakim , deans of Samarkand State University AkramBegmatov , AbdelsattorBabayarov, Ahmad Absanov and dean of the School of Continuing Education ofXJTU Di Dehai , vice dean of the School of Continuing Education Zhang Pingchuan and teachers from seven schools of XJTU attended the opening ceremony. The opening ceremony was hosted by Muhtor, vice president of Samarkand State University, and more than 150 students from Samarkand State University participated the programme.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Apr , 2019

Provided by: Chen Shuxuan

[Details](#)

Scientific Data (科学数据)

Development Indicators Download (丝路国情数据下载)

Introduction: This service aims to provide researchers with the download of 55 items ofGDP, CPI, GNP data for 65 Belt-road countries, with a time span of over 50 years from 1968 to 2017, and a total data of 178,750 entries. This system supports Chinese, English, Russianand Arabic downloading, and is the most comprehensive development indicator databaseinvolving the largest number of Silk-road countries with the longest time span.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: 2018

Provided by: Li Fei

[Details](#)

Knowledge application (知识应用)

UN Library

Introduction: UN Library, the application is based on the UN's 17 sustainable development goals, achieving a unified search of the entire UN comprehensive data set, SDG6.5 and SDG6.6. The search results include articles, publications and databases. The searching can be performed through source, subject, publication, language, region, year, etc. The search results include topics, authors, sources, keywords and other information. Through this application, users can learn about current research progress on relevant sustainability goals.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Jun , 2019

Provided by: Li Fei

[Details](#)

Video (视频课件)

China' s Opening——A Historical View (中国开放——历史观)

Introduction: By a brief yet thorough introduction about China' scommunication with the outside world, the course aims to provide the students aholistic understanding about China' s opening to the outside world during thepast five thousand years. Though different periods of China' s communication with theoutside world carry different characteristics, the core cultural value thatgoes through the history of China' s communication with the outside world is itscherishing of "harmonious coexistence with its neighbors in the world" . Thiscourse will also make a brief introduction to the formation of differentperiods in China so that the students can better understand the characteristicsof China' s communication with the outside world.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Jan , 2019

Provided by: Liu Jun

Details

The Past and Future of One Belt and One Road (一带一路的过去与未来)

Introduction: The lecture first briefly introduces the local international cognition of the Beltand Road Initiative. Then, it starts from the recall of the history of the Silk Road and the MaritimeSilk Road and introduces the origin, significance, and cultural understanding of Silk Road. It thenanalyses the local international economic social backgrounds of the Belt and Road initiative.After that, it introduces the development process, progress, and status quo of the Belt Roadinitiative. At last, it tries to analyze the problems the initiative is facing and probablecountermeasures.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Jan , 2019

Provided by: Zhu Ying

Details

Welfare economics (公共经济学)

Introduction: Welfare economics is a discipline that studies government behavior using thebasic theories and methods of economics. The course of welfare economics is compulsoryfor major students in the School of Public Policy and Administration. This coursemainly includes fundamental theories (welfare economics,externality theory, government intervention theory, public goods theory) and basictheories (public income theory, public expenditure theory, public choice theory, publicregulation theory).

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Jan , 2019

Provided by: Dong Yang

Details



<http://silkroadst.ikcest.org/>

国际工程科技知识中心-丝路科技知识服务系统

Silk Road Science Technology Knowledge Service System

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Engineering Education Knowledge Service (EEKS)



News (新闻资讯)

2018 Online Training Workshop on Micro-Diploma of Computer Science Ended (2018年计算机微专业培训班线上培训顺利结课)

Introduction: In order to enhance the computer skills of



engineering college students at home and abroad, training talents and promoting international development of engineering education, International Knowledge Centre for Engineering Sciences and Technology under the Auspices of UNESCO (IKCEST), International Centre for Engineering Education under the Auspices of UNESCO (ICEE) and XuetangX held 2018 Online Training Workshop on Micro-Diploma of Computer Science which was the Blended Training on Frontier Computer Knowledge Workshop. From June 1st 2018 to August 31st, there were over nine hundred students studied on Engineering Education Knowledge Service (EKS) website, most of them were from abroad.

Source: Engineering Education Knowledge Service

Release date: Oct , 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)



Scientific Data (科学数据)

Introduction: Clicking on the “Research Literature” icon on the EKS homepage will take you to the academic database of engineering education in English, which composes of two datasets including academic dissertations and journal papers. Journal papers include the Journal of Engineering Education (JEE)、European Journal of Engineering Education (EJEE)、Tsinghua Journal of Education and Research In Higher Education Of Engineering. You can enter the datasets by selecting the corresponding tabs.

Source: Engineering Education Knowledge Service

Release date: Jun , 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)

Knowledge application (知识应用)

Academic Voice& Focus

Introduction: The authoritative experts in the field of international engineering education interpret the new ideas, new trends and new technologies of international engineering education, and highlight the application and discovery of Internet information technology in the field of engineering education.

Source: Engineering Education Knowledge Service

Release date: 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)

Video (视频课件)

The MOOC Courses database provides high-quality courses offered by Tsinghua University in extensive fields including Chinese learning, engineering and computer science. The MOOC courses are either given in English or in Chinese with English subtitles and take various formats such as classroom-based teaching, handwriting instruction and real-world scenario-based teaching. These courses give full scope to the advantages of online education for better learning results by making premier engineering courses given by leading educators to learners around the world via the Internet.

Principles of Electric Circuits (电路原理)

Introduction: Principles of Electric Circuits (20220214x) is one of the kernel courses in the broad EECS subjects. Almost all the required courses in EECS are based on the concepts learned in this course, so it' s the gateway to a qualified EECS engineer.

Source: Engineering Education Knowledge Service

Release date: 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)



Digital IC Analysis & Design (数字集成电路分析与设计)

Introduction: This course starts from a model of the semiconductor devices and gradually processes upwards, covering the inverter, the complex logic (NAND, NOR, XOR), the functional (adder, multiplier, shifter, register) and the system module (datapath, controller, memory) levels of abstraction.

Source: Engineering Education Knowledge Service

Release date: 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)



Introduction to Probability: The Science of Uncertainty (概率论：不确定性的科学)

Introduction: The world is full of uncertainty: accidents, storms, unruly financial markets, noisy communications. The world is also full of data. Probabilistic modeling and the related field of statistical inference are the keys to analyzing data and making scientifically sound predictions. Probabilistic models use the language of mathematics. But instead of relying on the traditional "theorem - proof" format, we develop the material in an intuitive -- but still rigorous and mathematically precise -- manner. Furthermore, while the applications are multiple and evident, we emphasize the basic concepts and methodologies that are universally applicable.

Source: Engineering Education Knowledge Service

Release date: 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)



Learn Mandarin Chinese: Start Talking with 1.3 Billion People (对外汉语—与十三亿人对话)

Introduction: This introductory Chinese language course will emphasize basic language skills for everyday life in Mandarin speaking countries. The course utilizes pinyin, the standard system of Romanized spelling for transliterating Chinese, so learners will find it easy to understand and study the language.

Source: Engineering Education Knowledge Service

Release date: 2018

Provided by: Tian Huijun , Li Zhengwen

[Details](#)



国际工程科技知识中心-工程教育知识服务系统

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