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 webiste(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！

IKCEST General Platform

News (新闻资讯)

IKCEST International Symposium 2019 Held in Xi'an(国际工程科技知识中心2019国际高端研讨会于西安举办)

Introduction: IKCEST International Symposium 2019 was held in Xi'an on September 11. Themed "Big Data and Knowledge Services", the symposium was jointly hosted by UNESCO and the Chinese Academy of Engineering (CAE), and co-organized by IKCEST and Xi'an Jiaotong University. It was attended by more than 10 Chinese and foreign academicians and experts in the field, including Raj Reddy, CAE Foreign Member, Turing Award Winner
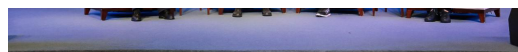
etc. The Zhiling Platform made a broadcast of the whole symposium at live.ckcest.cn. The symposium speakers focused on artificial intelligence and knowledge services from different angles, bringing a technology feast to the participants. In the panel discussion, experts interacted actively with the audience. In addition, award ceremony of the 5th Baidu-Xi'an Jiaotong University Big Data Competition and the 1st IKCEST "Belt and Road" International Big Data Competition was held.

Source: IKCEST Secretariat

Release date: Oct, 2019

Provided by: Fang Ying

Details

The 2nd session of the Second Advisory Committee and the 2nd session of the Second Governing Board of IKCEST held in Xi'an（国际工程科技知识中心第2届理事会和顾问委员会第二次会议于西安举行）

Introduction: The 2nd session of the second Advisory Committee and the 2nd session of the second Governing Board of the International Knowledge Centre for Engineering Sciences and Technology（"IKCEST" for short）were held in Xi'an on September 10, 2019. CAE Member Pan Yunhe, Turing Award winner Professor Raj Reddy and other IKCEST Governing Board and Advisory Committee members attended the meetings and gave guidance to IKCEST development.

Source: IKCEST Secretariat

Release date: Oct, 2019

Provided by: Zhang Ye

Details

International Training Workshop on Big Data for Developing Countries held in Trinidad & Tobago （"发展中国家的大数据"国际培训班在特立尼达和多巴哥成功举办）

Introduction: The International Training Workshop on Big Data for Developing Countries was held from 23-27 September 2019 at The University of West Indies (UWI), Saint Augustine Campus, Trinidad & Tobago. The workshop was organized by the International Knowledge Center for Engineering Science and Technology under the auspices of UNESCO (IKCEST) in collaboration with CARISCIENCE under the auspices of UNESCO and the International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC). 41 selected participants from the Caribbean countries including Jamaica, Guyana, Suriname and Trinidad & Tobago participated in this workshop.

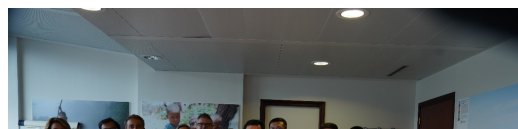**Source:** IKCEST Secretariat

Release date: Oct, 2019

Provided by: Ma Yingchen

Details

IKCEST Delegation Visited UNESCO Headquarters to Strengthen Cooperation in Disaster Risk Reduction and Joint Training Programmes(国际工程科技知识中心代表团赴UNESCO总部落实防灾减灾、联合培训等领域合作任务)

Introduction: The IKCEST delegation paid a visit to UNESCO Headquarters to implement cooperation tasks in Disaster Risk Reduction and Joint Training Programmes etc. from Sept.1 to Sept. 5 2019. The two sides reached consensus on a series of issues such

as platform construction and international workshop of the Disaster Risk Reduction Knowledge Service System of IKCEST, and talent cultivation and capacity building in Africa.

Source: IKCEST Secretariat

Release date: Oct, 2019

Provided by: Zhang Ye

Details

Knowledge application (知识应用)

Global Engineering(全球工程)

Introduction: "Global Engineering" collects engineering data resources from Asia, Europe, Africa, South America, North America and Oceania on nine fields. It can provide knowledge services, display frontier projects of major engineering's research and development in various countries, analyze projects in detail from perspectives of technological innovation, scale benefit and social influence, and vividly present the general picture of each major engineering through pictures, texts and videos for you.

Source: IKCEST General Platform

Release date: Sep, 2019

Provided by: Cai Lingli , Zhang Xinxing

Details

The Belt and Road Index(一带一路指数)

Introduction: "The Belt and Road Index" includes investment convenience index, investment potential index and technology development index. It combines country profile from countries along the Belt and Road, and develops knowledge services columns such as Index map, Information, Academic Research, Technology Development, Datasets, Countries Along and Data Center, so as to analyze various basic data (such as population, economy, energy reserve, etc.) of the countries along the Belt and Road from multiple dimensions. Besides, it is able to show you the latest information, and the achievements of engineering and technology construction (academic research, data set, service application) of countries along through maps.

Source: IKCEST General Platform

Release date: Sep, 2019

Provided by: Cai Lingli , Zhang Xinxing

Details

SDGs (支撑联合国可持续发展目标)

Introduction: "SDGs" gathers information concerned by UNESCO, focuses on all aspects of SDGs (169 indicators under the 17 objectives), analyzes data resources of relevant policies, news, articles, major events and activities from multiple perspectives, and presents them in special columns to help you search and fully understand the SDGs-related information.

Source: IKCEST General Platform

Release date: Sep, 2019

Provided by: Cai Lingli , Zhang Xinxing

Details

联合国科教文组织国际工程科技知识中心

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

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Disaster Risk Reduction Knowledge Service（DRR）

News (新闻资讯)

First Announcement of The 3rd International Workshop for Disaster Risk Reduction Knowledge Service（第三届防灾减灾知识服务国际研讨会第一轮通知）

Introduction: The Third International Workshop for Disaster Risk Reduction Knowledge Service will be held in Beijing, China, on December 13 and 14, 2019. The workshop is co-hosted by the International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of United Nations Educational, Scientific and Cultural Organization (UNESCO) and the Section on Earth Sciences and Geo-Hazards Risk Reduction, UNESCO. The workshop is organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences (IGSNRR, CAS).

Source: Disaster Risk Reduction Knowledge Service

Release date: Oct, 2019

Provided by: Yuan Yuelei

Details

International Training Workshop on Resource & Environment Scientific Data Sharing and Disaster Risk Reduction Knowledge Service held in Pakistan （"资源环境科学数据共享与防灾减灾知识服务国际培训班"在巴基斯坦举办）
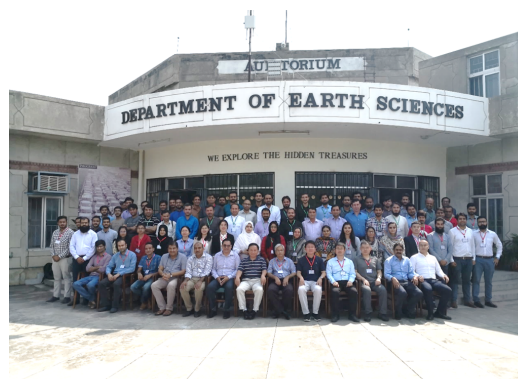
Introduction: From September 30th to October 4th, 2019, the International Training Workshop on Resource & Environment Scientific Data Sharing and Disaster Risk Reduction Knowledge Service, was held at Department of Earth Sciences, Quaid-i-Azam University, Islamabad, Pakistan.

Source: Disaster Risk Reduction Knowledge Service

Release date: Oct, 2019

Provided by: Yuan Yuelei

Details
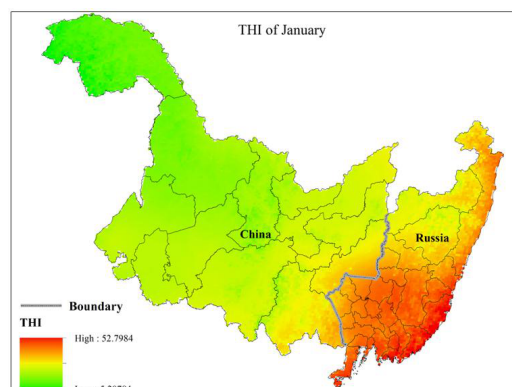
Scientific Data (科学数据)

Meteorological resource database of " Belt and Road" China-Mongolia-Russia economic corridor （"一带一路"地区中蒙俄经济走廊气象资源数据库）

Introduction: This dataset described the distribution of meteorological resource in China-Mongolia-Russia economic corridor, which mainly record the travel climate comfortable degree in the cross-border region between China and Russia. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. This dataset was composed of 56 raster files. It can be used to study meteorological disasters and provide important basis for disaster prevention and reduction and reducing the negative effects of meteorological disasters.

Source: Disaster Risk Reduction Knowledge Service

Release date: May, 2019
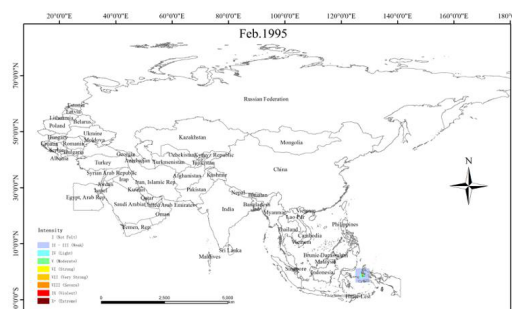
Provided by: Yuan Yuelei

Details

Spatio-temporal distribution of earthquake isaster in the Belt and Road Area in 1995 （1995年一带一路地震灾害时空分布）

Introduction: This dataset described the distribution of earthquake disasters in countries along the Belt and Road in 1995, which mainly recorded the seismic location, earthquake grade, seismic wave coverage and range information. They were collected and organized by the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences. This dataset was composed of 16 vector files.

Source: Disaster Risk Reduction Knowledge Service

Release date: May, 2019

Provided by: Yuan Yuelei

Details

Knowledge application (知识应用)

Global Earthquake Daily Distribution Map Service （全球地震逐日分布地图服务）

Introduction: Daily global earthquake events are shown in a world map directly. Multiple servers are used to acquire data from USGS and stored into the corresponding database. Users can get earthquake events' attribute information as well in the map.

Source: Disaster Risk Reduction Knowledge Service

Release date: 2017

Provided by: Yuan Yuelei

Details

Video (视频课件)

Progress and development plan of Disaster Risk Reduction Knowledge Service System of IKCEST （国际工程科技知识中心防灾减灾知识服务系统进展与发展规划）

Introduction: Disaster Risk Reduction Knowledge Service is subordinate to the International Knowledge Center for Engineering Sciences and Technology (IKCEST) under the auspices of UNESCO. Facing the publication of the Sendai Framework for Disaster Risk Reduction 2015 - 2030, the DRR department of UNESCO raised the needs to

IKCEST for the need of the construction of global disaster meta-database, creation of DRR educational platform, including on-line educational modules and the other needs about the disaster risk and reduction. This report will make a brief about the objectives, architecture, progress highlights, and development plan of Disaster Risk Reduction Knowledge Service.

Source: Disaster Risk Reduction Knowledge Service

Release date: 2017

Provided by: Yuan Yuelei

Details

Emergency Survey by Remote Sensing in Serious Mountain Disasters and Its Perspectives （山地灾害应急遥感调查及其展望）

Introduction: This report introduces the application of remote sensing in emergency investigation of severe mountain disasters and its prospects are analyzed by taking the "4·20" Lushan Earthquake in Sichuan Province as an example.

Source: Disaster Risk Reduction Knowledge Service

Release date: 2017

Provided by: Yuan Yuelei

Details

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)

Room C508, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, A11 Datun Road, Chaoyang District, Beijing, China.

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Intelligent City Knowledge Service （ICITY）

News (新闻资讯)

2019 National Urban and Rural Planning Education Conference of China Closing ceremony(2019中国全国城乡规划教育大会闭幕式)

Introduction: On September 8, 2019, the closing ceremony and awarding ceremony of 2019 National Urban and Rural Planning Education Conference were held at Hunan University. Wu Zhiqiang put forward the vision of future planning education, that is, more emphasis on people-centered, more attention to ecological

civilization, more focus on planning coordination and more attention to local innovation.

Source: Intelligent City Knowledge Service

Release date: Sep, 2019

Provided by: Yang Ting

Details

"Intelligent Shanxi Cultural Heritage Tourism Network" Project get started now! (山西智能文化遗产旅游网项目即将启动！)

Introduction: In order to conserve Shanxi's cultural heritage better and promote Chinese history and culture, China Academy of Engineering and Shanxi Provincial People's Government jointly present a new initiative "Intelligent Shanxi Cultural Heritage Tourism Network"，CAE Member Wu Zhiqiang is dedicated to tackle key problems to introduce Chinese cultural treasures to the world.

Source: Intelligent City Knowledge Service

Release date: Oct, 2019

Provided by: Yang Ting

Details

Scientific Data (科学数据)
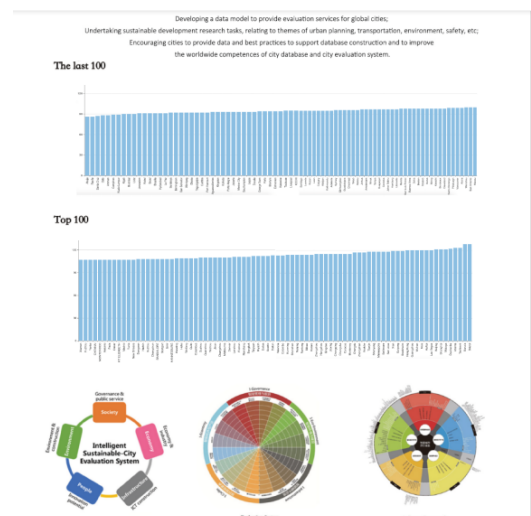
Latest Global CityIQ Ranking（最新全球城市IQ排名）

Introduction: 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: Oct, 2019

Provided by: Cao Buyang

Details

Knowledge application (知识应用)

Stockholmsporten master plan by BIG (BIG公司Stockholmsporten总体规划)

Introduction: The Energy Valley is a cross-over between urbanism, landscape, architecture, art and infrastructure into a new neighborhood of Stockholm. Harnessing the momentum of the massive investment in tunnels and highways and putting the excess excavation to use as a man-made valley, it creates an interdisciplinary hybrid of logistic, economic, environmental and social infrastructure.

Source: Intelligent City Knowledge Service

Release date: Oct, 2019

Provided by: Zhao Liang

Details

SOM breaks ground on Alárò City in Nigeria (SOM在尼日利亚阿拉罗市破土动工)

Introduction: Over 2,000 hectares, the city will combine a mix of industrial and commercial facilities positioned in line with the "growth path" of Lagos, one of Africa's fastest-growing cities. Alárò City helps strengthen Lagos' position as the economic and cultural hub for west Africa, by creating a new mixed-use model sustainable community.

Source: Intelligent City Knowledge Service

Release date: Sep, 2019

Provided by: Zhao Liang

Details

JACK LAYTON FERRY TERMINAL AND HARBOUR SQUARE PARK (杰克•莱顿渡轮总站和港口广场公园)

Introduction: The winning proposal, which the design team dubbed Harbor Landing, combines the two functions of terminal and park into one structure. It imagines the terminal as two small pavilions coupled with a broad "berm," a wooden structure topped with a green roof.

Source: Intelligent City Knowledge Service

Release date: Sep, 2019

Provided by: Zhao Liang

Details

Video (视频课件)

Overview of Urban Master Planning (城市总体规划概述)

Introduction: Urban master planning is an important part of urban planning. This course explains the tasks and significance of urban master planning.

Source: Intelligent City Knowledge Service

Release date: Oct, 2019

Provided by: He Rui

Details

Main Contents of Urban Master Planning (城市总体规划主要内容)

Introduction: The first part is the regulations of the city's master plan. The second part is the compilation of the overall urban planning. The third part is about the central urban area.
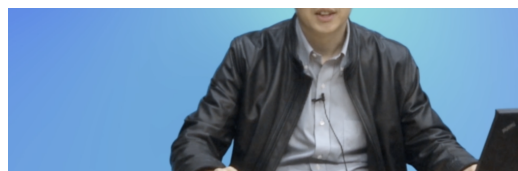
Source: Intelligent City Knowledge Service

Release date: Oct, 2019

Provided by: He Rui

Details

Town and Village System Planning (城镇体系规划)

Introduction: This course explains in detail the content of the urban rural planning system and the requirements of the times. At the same time, this lesson is also introduced with the actual case.
Source: Intelligent City Knowledge Service
Release date: Oct, 2019
Provided by: He Rui

Details

国际工程科技知识中心-智能城市知识服务系统
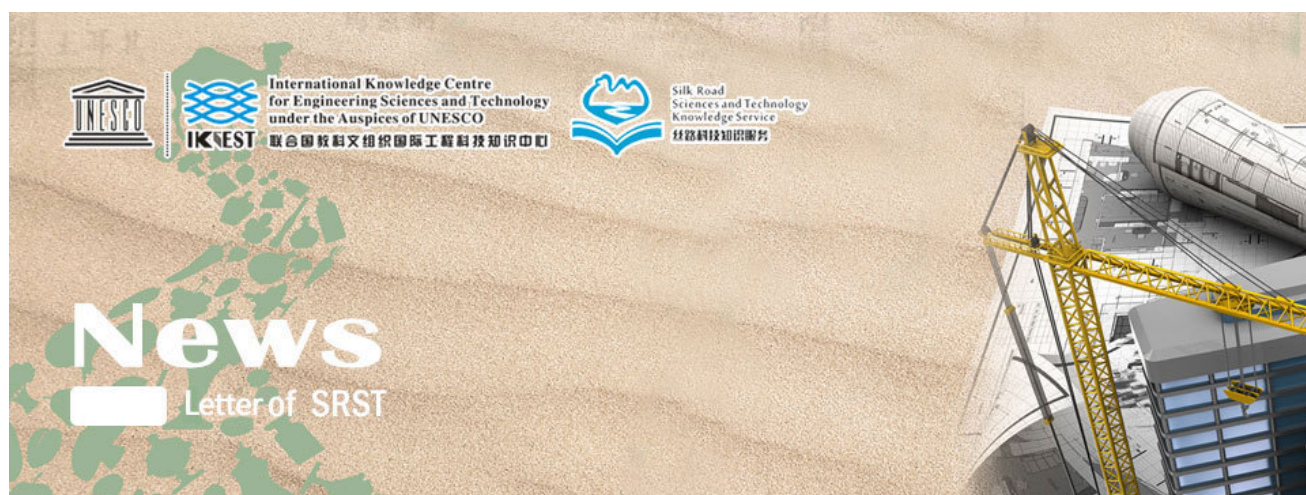Intelligent City knowledge Service System（iCity）
iCity focuses on the field of smart city construction, provides data knowledge services for intelligent city-related practitioners in the world, and supports the construction of smart cities in China.
If you want to know more about us ,please scan the code left.

http://icity.ikcest.org/

Room 201, Wenyuan Building, Tongji University, Yangpu District, Shanghai

Silk Road Sciences and Technology Knowledge Service (SRST)

News (新闻资讯)

IKCEST Silk Road Training Base Held the 57th Training Programme for Silk Road Engineering Science Technology Development（国际工程科技知识中心丝路培训基地第57期丝路工程科技发展专项培训顺利举办）

Introduction: The 57th IKCEST Training Programme for Silk Road Engineering Science Technology Development was held in Xi'an Jiaotong University from July 5th to 8th, 2019. It was co-hosted by the International Knowledge Centre for Engineering Sciences Technology (shortened as "IKCEST") under the Auspices of UNESCO, Xi'an Jiaotong University Thai Alumni Association of China's Universities, was organized by IKCEST Silk Road Training Base. Over 40 entrepreneur representatives from Thai Alumni

Association of China's Universities participated in this training programme.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: July, 2019

Provided by: Chen Shuxuan

Details

The 56th "Training Programme for Silk Road Engineering, Science and Technology Development" & the 1st Shanxi University "Silk Road Convergence" Training Programme for International Students Held by IKCEST Silk Road Training Base（国际工程科技知识中心丝路培训基地第56期丝路工程科技发展专项培训暨山西大学第一期"丝路纵横"国际学生专题培训顺利举办）

Introduction: Opening ceremony of the 56th IKCEST Training Programme for Silk Road Engineering Science and Technology Development & the 1st Shanxi University "Silk Road Convergence" Training Programme for International Students was successfully held in the School of International Education and Exchange of Shanxi University on the morning of June 22nd, 2019. This training is the first cooperative effort between Shanxi University, IKCEST Silk Road Training Base and Xi'an Jiaotong University to contribute to the Belt and Road Initiative. It aims to jointly cultivate personnel for Belt-road countries, improving the quality of education for international students, promoting cultural, scientific, technological and educational exchanges so as to contribute to economic and social development of European, Asian and African Belt-road countries and regions.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: July, 2019

Provided by: Dong Yang

Details

Scientific Data (科学数据)
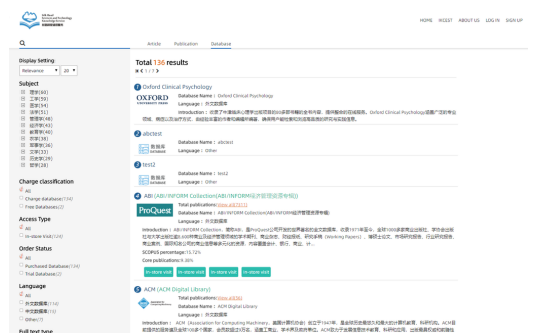
Russian comprehensive database（俄罗斯综合数据集）

Introduction: This data collection brings together relevant information resources of Russia. The content of the subject gathers literature on trade, commerce, economy, investment, literature, art, humanities, geography, etc. The types of documents include journals, conferences, books, dissertations, standards, etc. And provide multilingual support services. Serving experts, scholars, enterprises, college students and other groups in the fields of education, science and technology, culture, etc., promoting multi-party comprehensive exchanges and cooperation, serving the country's development, exploring new talents for transnational training and cross-border mobility, and cultivating an international perspective. High-quality talent.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Aug, 2019

Provided by: Zhu Ying

Details

Knowledge application (知识应用)

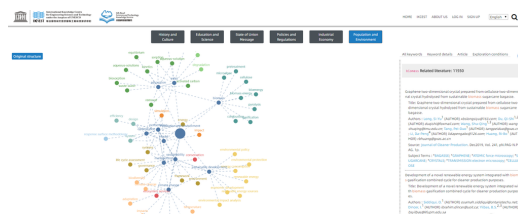### Knowledge graph of Population and Environment（人口与环境知识图谱）

Introduction: The knowledge graph of population and environment shows the core knowledge topics in the population and environment fields, as well as the links between the topics, by associating the maps. The map is unfolded through a two-tier structure that reveals the top 10 knowledge topics within the "Population and Environment" theme. For example, climate change, biodiversity, sustainability, and water are the core knowledge topics. Each topic on the first level is associated with 10 secondary knowledge topics related to it. For example, the first-level knowledge topic biodiversity is associated with secondary topics such as protected areas, species richness, and ecosystems. Click on one of the topic nodes to clearly observe the contents of the adjacent topic nodes associated with it.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Aug, 2019

Provided by: Zhang Qianglong
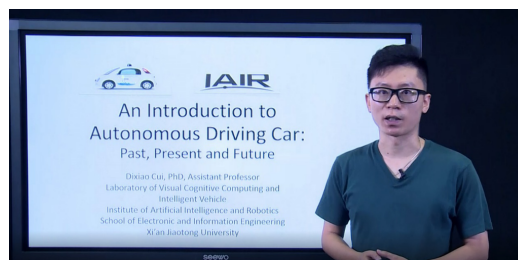
Details

Video (视频课件)

Autonomous Driving Car（无人驾驶汽车）

Introduction: As a specific application of Artificial Intelligence, Driverless car, or known as autonomous vehicle, intelligent vehicle, robotic car, has been a hot topic in both academic and industrial field since several years ago. You might wonder "what is driverless car?", "how can the car be driverless?" and "when will we have a driverless car?" The course will cover the history, the system overview, the key technology including perception mapping localization planning control, the different levels of autonomous driving technology, and its current progress and big events.

Source: Silk Road Sciences and Technology Knowledge Service

Release date: Aug, 2019

Provided by: Liu Jun

Details

Engineering Education Knowledge Service (EEKS)
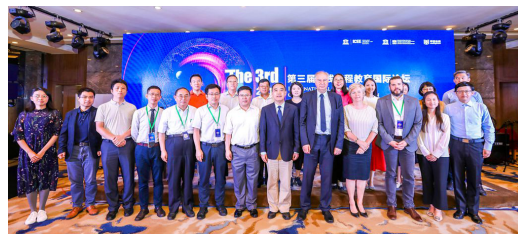
News (新闻资讯)

The 3rd International Forum for Online Engineering Education Held at Tsinghua University (第三届在线工程教育国际论坛在清华大学举办)

Introduction: The 3rd International Forum for Online Engineering Education, themed "Information technology facilitates first-class courses and big data serves engineering education", took place in Tsinghua University on July 7, 2019.The Forum aimed to explore the in-depth integration of information technology and international engineering education, facilitate the sharing of superior global resources in engineering education, advance the professional certification of engineering education, cultivate more, preeminent engineering technology personnel with global competency, and to realize sustainable engineering education. This Forum was co-sponsored by ICEE and IKCEST, and organized by Xuetangx.com. Present in this Forum were about 300 attendees.

Source: Engineering Education Knowledge Service

Release date: July, 2019

Provided by: Tian Huijun , Li Zhengwen

Details

TIAN Huijun and LI Zhengwen from EEKS Attends the 47th Annual Meeting of SEFI (田慧君和李正文参加第47届欧洲工程教育学会年会)

Introduction: On September 16-20, 2019, the 47th annual meeting of the European Society for Engineering Education (SEFI) was convoked at Budapest University of Technology and Economics (BME), attracting nearly 400 delegates from 43 countries and regions across the globe, including Europe, Asia, Australia and North America.Professor LIN Jian from the Institute of Education, Tsinghua University, Dr. TIAN Huijun and Research Assistant LI Zhengwen from EEKS attended the meeting.

Source: Engineering Education Knowledge Service

Release date: Sep, 2019

Provided by: Tian Huijun , Li Zhengwen

Details

Scientific Data (科学数据)

Engineering Database （工程教育数据库）

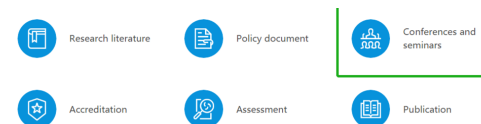**Introduction:** In this section, the database highlights international

Engineering Database

seminars in the field of engineering education held around the world, including WFEO （Word Federation of Engineering Organizations）, IFEES (The International Federation of Engineering Education Societies), SEFI (European Society for Engineering Education）, ASEE (American Society for Engineering Education）, IACEE (International Association for Continuing Engineering Education) and so on.

Source: Engineering Education Knowledge Service

Release date: Sep, 2019

Provided by: Tian Huijun , Li Zhengwen

Details

Knowledge application (知识应用)

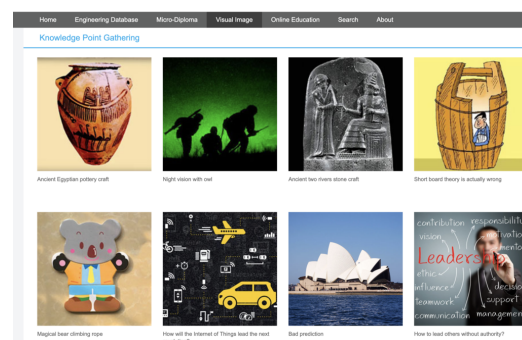### Knowledge Point Gathering

Introduction: The production of the knowledge point gathering video relies on the engineering MOOC course, selects relatively independent knowledge points, designs into a micro-class script, and then the final post is made into a video micro-class. The knowledge point video is presented to the learner in a fragmented form with an average duration of 8-12 minutes. Follow a video to finish a knowledge point, which is convenient for learners to learn during the daily fragmentation time.

Source: Engineering Education Knowledge Service

Release date: Sep, 2019

Provided by: Tian Huijun , Li Zhengwen

Details

Video (视频课件)

AP Environmental Science - Part 2: Populations（环境科学，第二部分：遗传学）

Introduction: Preparing for the AP Environmental Science exam requires a deep understanding of many different topics in environmental science as well as an understanding of the AP exam and the types of questions it asks. This course is Part 2 of our AP Environmental Science series designed to prepare you for the AP exam.

In Part 2, you will learn about the populations that inhabit Earth. You will learn about population dynamics, the human population and sustainability. You will also examine land and water use.

As you work through this course, you will find lecture videos taught by expert AP Environmental Science teachers, practice multiple choice questions and free response questions that are similar to what you will encounter on the AP exam and tutorial videos that show you step-by-step how to solve problems. By the end of the course, you will be prepared to take on the AP exam!

Source: Engineering Education Knowledge Service

Release date: 2019

Provided by: Tian Huijun , Li Zhengwen

Details

AP Environmental Science - Part 2: Populations

来自: 无 ｜ 分类: Environmental Engineering(5)

AP Environmental Science - Part 3: Pollution and Resources（环境科学，第三部分：污染和资源）

Introduction: Preparing for the AP Environmental Science exam requires a deep understanding of many different topics in environmental science as well as an understanding of the AP exam

AP Environmental Science - Part 3: Pollution and Resources

来自: 无 ｜ 分类: Environmental Engineering(5)

课程信息

and the types of questions it asks. This course is Part 3 of our AP Environmental Science series designed to prepare you for the AP exam.

In Part 3, you will learn about pollution and Earth's resources. You will take a look at the types of pollution Earth is facing, the state of the resources and how these things affect the Earth and the human population.
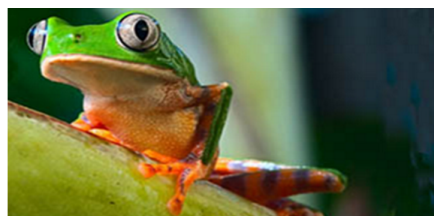
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Source: Engineering Education Knowledge Service

Release date: 2019

Provided by: Tian Huijun , Li Zhengwen

Details

AP Biology - Part 2: Genetics（生物学，第二部分：遗传学）

Introduction: Preparing for the AP Biology exam requires a deep understanding of many different topics in biology as well as an understanding of the format of the AP exam and the types of questions it asks. This course is Part 2 of the AP Biology series designed to prepare you for the AP Biology exam.

In Part 2, you will explore genes and learn how information is passed from one generation to the next. You will look at the molecular level of genetics as well as the bigger picture, learning how DNA holds the instructions to life.

As you work through this course, you will find lecture videos taught by expert AP Biology teachers, practice multiple choice questions and free response questions that are similar to what you will encounter on the AP exam and tutorial videos that show you step-by-step how to solve problems. By the end of the course, you will be prepared to take on the AP exam!

Source: Engineering Education Knowledge Service

Release date: 2019

Provided by: Tian Huijun , Li Zhengwen

AP Biology - Part 2: Genetics
来自：无 | 分类：Bioengineering(5)

Details

AP Biology – Part 3: Evolution and Diversity（生物学，第三部分：演化和多样性）

Introduction: Preparing for the AP Biology exam requires a deep understanding of many different topics in biology as well as an understanding of the format of the AP exam and the types of questions it asks. This course is Part 3 of our AP Biology series designed to prepare you for the AP Biology exam.

In Part 3, you will explore the idea that the process of evolution drives the diversity and unity of life. You will examine how changes in the genetic makeup of a population happen over time and how these changes drive evolution and create diversity.

As you work through this course, you will find lecture videos taught by expert AP Biology teachers, practice multiple choice questions and free response questions that are similar to what you will encounter on the AP exam and tutorial videos that show you step-by-step how to solve problems. By the end of the course, you will be prepared to take on the AP exam!

Source: Engineering Education Knowledge Service

Release date: 2019

Provided by: Tian Huijun , Li Zhengwen

AP Biology – Part 3: Evolution and Diversity
来自：无 | 分类：Bioengineering(5)

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