As one of China’s most prestigious and influential universities, Tsinghua is committed to cultivating global citizens who will thrive in today’s world and become tomorrow’s leaders. Through the pursuit of education and research at the highest level of excellence, Tsinghua is developing innovative solutions that will help solve pressing problems in China and the world.

AMiner, an academic search and mining system which has been developed by professor Jie Tang and his team from Tsinghua fourteen years ago, has now changed the way of academic research.

Comparing with other popular academic systems, such as Google Scholar, Microsoft Academic Search, CiteSeerX, CiteULike, ResearchGate, Semantic Scholar, DBLP and so on, AMiner can quickly scan and understand scientific text such as news articles, research papers and researchers’ profiles. By automatically highlighting the most important features of articles and profiles from different sources, it can generate semantic-based profiles of researchers, find the connections among a cluster of papers, explore emerging technologies, and even predict the future directions of science and technology.

Last year, at the early stage of the COVID-19 outbreak, AMiner timely launched the COVID-19 knowledge graph, which promoted the progress of COVID-19 related research. The knowledge graph included the comprehensive profile information of scholars, such as their published papers, filed patents, research projects, academic services, and related news articles.

Technique-wise, however, the above semantic information is often scattered across isolated and heterogeneous data sources. Tang and his team devoted themselves to developing novel algorithms to collect, extract, and infer different categories of information for scholars, based on which they construct a dynamically increasing scholar-centered academic knowledge graph. To build the knowledge graph, explicit information across isolated data sources, such as papers, patents and projects, need to be integrated, where normalization and disambiguation are key challenges to be addressed. They organized isolated data sources into graphs, and then leveraged the graph structures to reduce the impact of the unnormalized and ambiguous text information. Moreover, implicit information such as the advisor-advisee relationships, scholar’s research interests and the semantic relationships between research concepts are inferred using deep learning-based algorithms. Without the need of annotating massive implicit relationships, the embeddings of entities in knowledge graphs are learned by self-supervised models to facilitate the inference of the implicit relationships.

With the underlying knowledge graphs, many useful tools and applications have been developed by the team. For instance, Topic Trend module can demonstrate the macro evolution of general research topics such as “deep learning” or more specific techniques such as “auto encoder”. On the other hand, Master Reading Tree module is a tool to help scholars learn the micro evolution of a popular paper. Another example is Must Reading Papers module, which targets at sorting out the state-of-the-art papers and the influential scholars about a topic. These tools are helpful for scholars to trace the up-to-date research progresses. Star Talents module is an application to predict the academic potential of a scholar in the future, which can shed light on choosing supervisors for students or seeking collaborator for companies.

Every year, AMiner attracts more than 20 million independent IP accesses from over 220 countries/regions (per Google Analytics). In addition, together with Microsoft, AMiner has released the most massive open academic graph (OAG) with over 300 million publication papers and 100 million authors. It is definitely the largest released academic data. Because of these achievements, Tang and his team were awarded the Microsoft Research Asia Collaborative Research Award. The original paper about the AMiner system published on ACM SIGKDD 2008 received the inaugural Test of Time Award for Applied Science in recognition of the team’s study of mining academic social networks.

Currently, the technology is still facing bottlenecks, despite tremendous developments in the past years. According to Tang and his team, the current status is still far away from real AI. Intelligent functionalities are required to improve the efficiency of academic research. For example, there are still mistakes in the built knowledge graph, such as wrong authors matched to some papers, or advisor-advisee relationship errors. Deploying a monitor robot is a way to dynamically update the knowledge graph, and to correct potential mistakes using reasoning. In addition, an intelligent service is needed to deeply analyze the content and summarize the complex knowledge including research problems, challenges and approaches presented in papers, and even invent new ideas based on existing knowledge. Finally, a chatbot is also necessary to answer any natural language questions from end users. Tang and his team are making their efforts on the direction. In 2019, Zhipu AI was founded by part of the research team. The Tsinghua's spinoff also used large pre-trained models and other technologies to understand and analyze information of cutting-edge sciences and technologies.

We seek top-level applicants with an outstanding research record in the broad area of data mining for intelligent systems (theory, computation, and practice). Research areas of interest include, but are not limited to: (i) data mining, (ii) distributed computing, (iii) theory and algorithm, (iv) artificial intelligence, (v) machine learning. Please send the application package to the following address by email to: jietang@tsinghua.edu.cn.
Department of Electrical Engineering (DEE) of Tsinghua University, founded in 1932, is one of the three earliest engineering departments since the foundation of the university. Bearing the historical mission of cultivating top talents for the nation and advancing the electric power industry in China, DEE has continuously made breakthroughs and developments in a broad range of areas for nearly 90 years. DEE not only ranked the first or A+ class in the past national evaluations of disciplines, but also established an outstanding global reputation.

In recent years, the QS ranking of Tsinghua University in Electrical Engineering has been around top 10 in the world. In the 21st century, the world is facing a major historical opportunity for energy evolution. China has announced the goal of “peak carbon dioxide emissions before 2030 and achieve carbon neutrality before 2060”. To achieve this goal, DEE commits to lead the research and education in power engineering in China, aiming at cutting edge contributions in discipline development and scientific research, serving major national needs and promoting the in-depth development of basic disciplines including power systems, power electronics and electric machine systems, high-voltage technology, flexible transmission and distribution, and new electrical technologies. At the same time, DEE continues to expand the extension of disciplines, vigorously promote the interdisciplinary integration, and foster the technology-to-market progress and industrial applications, for which, DEE has gradually formed a strategic discipline structure of “one-axis-two-wings” (Fig.1). Energy Internet Research Institute of Tsinghua University and Sichuan Energy Internet Research Institute of Tsinghua University have been established to promote the concept and technology development of energy internet and therefore support “one-axis-two-wings”.

DEE has been focusing on “organized scientific research” and has formed 11 research teams across multidisciplinary academic fields. A series of achievements have been made in the field of stability control and protection of ac/dc complex power grid, including autonomous-synergic voltage control, traveling waves-based protective relaying of power lines, on-line analysis of damping characteristics and its adaptive control, active defense against cascading failures, IGCT device and high voltage DC breaker, smart and advanced dielectric materials, UHVAC and UHVD technology, power electronics transient analysis methodology. These technologies have been successfully applied in major power engineering infrastructures operated by State Grid Corporation of China and China Southern Power Grid.

In terms of teaching and education, DEE has developed a new International Energy Internet Program, dedicated to cultivating future top-profile innovation leaders with international vision in the energy field. Besides offering the first MOOC (massive open online course) for the course of Principles of Electric Circuits in China, DEE actively explores “student-centered” teaching mode, using modern teaching tools such as Rain Classroom to carry out flipped classroom and blended learning reforms, and improves students’ learning qualities. Furthermore, DEE encourages students to undertake social services and launches the Dream Grid Program to build photovoltaic microgrid for primary schools in remote areas in western China (Fig.2).

Department of Electrical Engineering has been actively bridging China and the world. During the past 5 years, about 30 students won best paper awards in international conferences. DEE founded or co-founded influential internal conferences such as IEEE EI² and iSpec, and established the Energy Internet Coordination Committee at the IEEE Power and Energy Society. Hitherto, Department of Electrical Engineering has 9 IEEE Fellows and 26 IET Fellows, and 85 faculty members are editor-in-chief or associate-editor in internationally renowned journals.

Facing future challenges, Department of Electrical Engineering of Tsinghua University will continue to carry forward the tradition of “Dedication to the Country and Pursuit of Excellence”, uphold the department motto of “Rigorous in Learning and Righteous in Conduct”, actively promote the development of disciplines, improve the quality of talent training, and make significant contributions in serving the national energy revolution strategy. In April 2022, DEE will celebrate its 90th anniversary and would like to welcome global alumni, collaboration partners and friends to join the celebration events.
Zhejiang University (ZJU) is one of China’s top higher education institutions, as well as one of its oldest; its roots can be traced back to 1897 and the founding of the Qiushi Academy.

Located in Hangzhou – one of China’s most picturesque cities – the University is organized across 7 faculties and 37 schools. It is home to 3,741 full-time faculty members, including 46 members of the Chinese Academy of Sciences and the Chinese Academy of Engineering. ZJU has 54,641 students, over 53% of whom are postgraduate students.

Laying claim to several areas of research strength, ZJU currently ranks among the top three on Chinese mainland and within the top 100 in the Times Higher Education World Reputation Rankings and QS World University Rankings. Eighteen disciplines of ZJU have been selected for China’s “Double First-class” Initiative (3rd in China) and 39 disciplines graded A in the recent national assessment (1st in China).

The University prides itself on a culture of innovation and entrepreneurship. ZJU researchers are making an impact across many priority areas that address global challenges, including artificial intelligence, assembly technology for large aircraft, clean energy, ocean technology, industrial control technology, and global public health initiatives related to the prevention and treatment of infectious diseases. ZJU is also renowned for the number of business start-ups it spins off. Over 100 of its alumni sit at the helm of domestic or overseas listed companies, making the University synonymous with excellence and leadership.

ZJU is committed to transforming China and the world through active engagement. Major innovative developments include the creation of a high-level platform for intellectual property exchange, as well as the formation of a number of think-tanks, including the China Academy of Western Region Development, the National Research Center for Agricultural and Rural Development, and the Institute for Public Policy, which exist to extend the scope of ZJU’s research in social sciences.

ZJU has partnerships in place with more than 190 institutions from more than 30 countries worldwide. Included among them are such leading institutions as Imperial College London, the University of Sydney and the University of Illinois at Urbana-Champaign.

With a cohort of 7,074 international students, and around 8,000 faculty and students who participate annually in various overseas mobility programs, ZJU fully harnesses its extensive network to nurture talent with a global outlook. In collaboration with the Universities of Edinburgh and Illinois it has also established the ZJU-UoE and ZJU-UIUC Institutes on Haining International Campus.

Chief among ZJU’s aims is the aspiration to become a world-class university with a distinctively Chinese character, where tradition and modernity are successfully combined.

Welcome to join us in ZJU.
Shanghai University of Medicine & Health Sciences is an applied technique-oriented undergraduate medical university affiliated to Shanghai, the university is oriented towards application, characteristics and internationalism, adheres to the development direction of “medical and industrial integration, medical and nursing integration, and medical insurance integration”, and aims to cultivate human health promoters with sound personality and psychology, who can solve practical problems and have the potential to lead the industry. There are more than 11,000 students in 17 majors such as Clinical Medicine, Nursing, Rehabilitation, Medical Devices, Medical Examination, Medical Imaging, Health Management and Service, Pharmacy, Health Inspection and Quarantine, Clinical Engineering, Medical Product Supervision, Big Data Technology, Emergency Management, Dental Technology, and Intelligent Imaging Engineering, and more than 800 colleagues here are welcome you. The university has built affiliated hospitals such as Jiading District Central Hospital, Zhoupu Hospital, Pudong New Area People’s Hospital, Jinshan District Central Hospital, Chongming District Central Hospital, Landsed Hospital, Shanghai, affiliated teaching hospital system composed of tertiary, secondary and first-class hospitals and medical institutions, and the teaching base composed of hundreds of high-level medical and health service institutions, medical device enterprises and testing units. The university has Shanghai molecular imaging key laboratory, Shanghai universities key laboratory and engineering center. The university has carried out extensive and in-depth international cooperation and exchanges with dozens of well-known universities in the United States, Japan, France, Britain, Australia, Germany and other countries and regions.

II. Job Recruitment
[Discipline Leading Talents] The candidates should be professionals and scholars with noble ethics and rigorous academic style, who are active in the frontline of academic research, well known at home and abroad, able to quickly raise their discipline to the advanced level at home and abroad, and have achieved recognized academic achievements in their field of study.

[Excellent Talents] In general, excellent talents with a high-level doctorate degree and more than 2 years of frontline teaching and research practice experience. Qualifications for cultural, artistic and physical education talents may be appropriately relaxed. Their academic level should generally be above average in their own filed.

III. Discipline Direction
Outstanding talents in Clinical Medicine, Nursing, Medical Technology, Biomedical Engineering, Medical Imaging Technology, Basic Medicine, Stomatology, Public Health and Preventive Medicine, Artificial Intelligence, Biomedicine and other disciplines.

IV. Relevant Benefits
We will provide a series of policy support based on school talent introduction package and other related measures, including “One person, One policy” consultation in certain circumstances.

Contact person: Mr. / Ms. Liu
Tel: 86-21-65882192
E-mail: jkyxyhr@163.com
Web: www.sumhs.edu.cn
Address: Human Resources Office, Shanghai University of Medicine & Health Sciences, 279 Zhouzhu Road, Pudong New Area, Shanghai (Postal code: 201318)
Rise in the Marine Field with the Mind of a Big Power, and Build a Maritime Power through Talents First

This is Harbin Engineering University, originated from Harbin Institute of Military Engineering. Subordinated to the Ministry of Industry and Information Technology as one of the "seven major universities of national defense", I am a national key university covering multiple fields of disciplines including science, engineering, liberal arts, law, economics, management, etc. As one of the first batch of key construction universities of the Project 211 and a university for the construction of innovation platforms of universities of national defense, I have now been selected for the national "Double First-class" construction.

"Three-marine and one nuclear field" are my distinctive school-running features. The ocean and the shipbuilding industry are where my voyage leads to, and the nuclear industry is my arena. I am the largest talent training base for shipbuilding and nuclear industries in China, as well as one of the most important scientific research bases for shipbuilding and nuclear industries in China.

In addition to the main campus, I am focusing on building Qingdao Innovation Development Base/Qingdao Research (Postgraduate) Institute, Yantai Research (Postgraduate) Institute, and Nanhai Innovation and Development Base, based on China's major development strategies and taking into account my school-running features of "three-marine and one nuclear field".

Leading talents
A leading talent should have strong academic influence and have made domestically leading or globally advanced academic achievements, with academic influence ranking forefront among that of domestic and foreign young and middle-aged scholars in the filed. A young leading talent should aim to be selected as a national-level talent in the future.

Excellent teachers
An excellent teacher should have strong academic potential, and hold a doctorate degree from a high-level domestic or foreign university. He/she should own good academic foundation and present the potential to grow into a young leading talent.

Postdoctoral innovative talents
A postdoctoral innovative talent should have strong academic innovation abilities, with a doctorate degree which was obtained less than 3 years ago. The talent should be able to meet the requirements of a full-time scientific research position, and present the potential to quickly grow into an excellent teacher.

Contact person: Li Guangdong, Sun Mengnan (For postdoctoral fellows)
E-mail: 66710432@qq.com, sumengnan@hrbeu.edu.cn (For postdoctoral fellows)
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National University of Defense Technology (NUDT) is a comprehensive research university and a key university supported by the national “985 Project”, “211 Project” and “Double First Class” project. The University consists of 13 colleges and research institutes, including College of Liberal Arts and Sciences, College of Computer Science and Technology, College of Electronic Science and Technology, and College of Advanced Interdisciplinary Studies, etc., which are located in Changsha (Hunan Province), Nanjing (Jiangsu Province), Hefei (Anhui Province), Wuhan (Hubei Province), Xi’an (Shaanxi Province).

In the latest national assessment of first-class disciplines, eight disciplines of the University were rated ‘A level’, including 4 A+ disciplines, 3 A disciplines, and 1 A- discipline. NUDT ranks 11th nationally in terms of the number of A+ discipline. Five disciplines of the University, namely information and communication engineering, computer science and technology, aerospace science and technology, software engineering, management science and engineering, have been selected into the list for the national initiative to construct first-class disciplines.

NUDT boasts a high-level faculty composed of “leading talents and innovative teams”. Among its faculty, there are 16 academicians of the Chinese Academy of Sciences and the Chinese Academy of Engineering, and over 500 recipients of major national talent programs support or awards. There are also 10 national-level innovation teams, 8 national-level teaching teams, 2 NSFC Innovation Research Team, and 1 team winning the National Award for Excellence in Innovation.

NUDT is home to an array of advanced teaching and research facilities, including 10 national key laboratories, 6 national-level experimental teaching demonstration centers, 3 national and local joint engineering research centers.

Learn more and join us >>>
Email: rcfw@nudt.edu.cn

If you are seeking job opportunities in Chinese universities or research institutes, please contact the talent service agency of AcaBridge (consultant@acabridge.edu.cn), which provides one-on-one consultations. For more information, visit us at www.acabridge.edu.cn.

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