Conference Manual

2017 the 2nd International Conference on Information Technology and Intelligent Transportation Systems

(ITITS 2017)

Xi’an, China
10-11, June 2017

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Dr. Samonov, Q., Lomonosov Moscow State University, Russia
Prof. Santo Banerjee, Politecnico di Torino, Italy
Prof. Sikh Namh C., University of Delhi, India
Prof. Traian Mazilu, Politehnica University, Bucharest, Romania
Prof. Vladimir O. Safonov, St. Petersburg University, Russia
Introduction

2017 the 2nd International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2017) will be held in Xi’an on June 10, 2017, which will provide a platform for all professionals and researchers from industry and academia to present and discuss recent advances in the field of Information Technology and Intelligent Transportation Systems. Intelligent transport systems vary in technologies applied, from basic management systems to more application systems, information technology also plays tightly with intelligent transportation systems including wireless communication, Computational technologies, floating car data/floating cellular data, sensing technologies, and video vehicle detection; and technologies of intelligent transportation systems also includes topics from theoretic and application topics such as, emergency vehicle notification systems, automatic road enforcement, collision avoidance systems and some cooperative systems. The conference will also foster cooperation among organizations and researchers involved in the merging fields, invite worldwide well-known professors to further explore these topics, and discuss in-depth technical presentations with the presenters. All papers will be reviewed by 3-4 referees and program chairs of the conference committee will draw the decision based on the score of each paper.

ITITS 2017 is sponsored by IOS Press, Shaanxi Computer Society, Chang’an University and co-sponsored by Xi’an University of Technology, Northwestern Polytechnical University, CAS, Shaanxi Sirui Advanced Materials CO., LTD, etc. All accepted papers will be published in Frontiers in Artificial Intelligence and Applications (ISSN: 0922-6389) and will be submitted for Ei Compendex, Selected Papers will be recommended to

1. Journal of Innovation in Knowledge-Based and Intelligent Engineering Systems (ISSN:1327-2314) (Ei-Compendex), Special Editor: Prof. Lakhmi C. Jain.
2. International Journal of Information Technology and Management (ISSN: 1461-4111) (Ei Compendex), SI: Intelligent Technologies in Modern Industries: Challenges Facing Globalisation and Informatisation, Guest Editors: Fuqian Shi, Nilanjan Dey, Pamela McCauley, Valentina E. Balas
3. International Journal of Ambient Computing and Intelligence (IJACI) (1941-6237) (Ei-Compendex), Editor in Chief: Dr. Nilanjan Dey.

Some excellent papers will be recommended to SCI journals.
## Conference Program

### 10 June, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 9:30-14:00 | Registration  
the hall of hotel-1st floor, Xi’an Hotel                                                              |
| 14:00-14:10 | By Bus  
the hall of hotel-1st floor, Xi’an Hotel                                                                    |
| 14:30     | Opening ceremony  
International Academic Exchange Center of Chang’an University  
（长安大学国际学术会议中心） |
| 14:30-15:10 | Keynote Speech-1  
Prof. Aemal Khattak  
Title: Public safety at highway-rail at-grade crossings |
| 15:10-15:50 | Keynote Speech-2  
Prof. Ryosuke ANDO  
Title: From ADAS to Autonomous Vehicles - A discussion based on surveys in Japan |
| 15:50-16:30 | Keynote Speech-3  
Prof. Nilanjan Dey  
Title: Nature-inspired Intelligence: An overview and future direction |
| 16:30-17:10 | Keynote Speech-4  
Dr. Haifeng Liu  
Title: An Overview of Business Opportunities of Autonomous Driving |
| 17:10     | By Bus |
| 17:40-18:40 | Banquet  
The Cantonese Cuisine Restaurant Xi’an Hotel  
（西安宾馆粤菜皇） |
| 19:00-21:30 | Oral presentation  
The First Floor Meeting Room of North Building in Xi’an Hotel  
（西安宾馆北一楼会议室） |

### 11 June, 2017

<table>
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<th>Time</th>
<th>Event</th>
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| 9:00-12:00 | Post Presentation  
The First Floor Meeting Room of North Building in Xi’an Hotel  
（西安宾馆北一楼会议室） |
Keynote speaker

Prof. Aemal Khattak
Professor, Department of Civil Engineering, University of Nebraska-Lincoln
Chair of the Transportation Research Board Committee on Highway/Rail Grade Crossings

Dr. Aemal Khattak is a Professor of Civil Engineering and Associate Chair of the Department of Civil Engineering at the University of Nebraska-Lincoln. Dr. Khattak teaches graduate and undergraduate courses in transportation engineering and his research interests are in highway safety with a focus on the safety of highway-rail crossings. He has received more than $5 million research funding over the years from various US agencies including the Federal Highway Administration, Federal Railroad Administration, the Nebraska Emergency Management Agency, and different state departments of transportation. Dr. Khattak is the Chair of the Transportation Research Board Standing Committee on Highway-Rail Grade Crossings (AHB60), Area Editor for the Journal of Safety and Security and a member of the editorial board of the Journal of Transportation Research Forum.

EDUCATION
Ph.D. (Civil Engineering - transportation), 1999.
Department of Civil Engineering, North Carolina State University, Raleigh, NC.
Master of Science in Civil Engineering (transportation), 1995.
Department of Civil and Environmental Engineering, Pennsylvania State University, PA.
Bachelor of Science (with honors) in Civil Engineering, 1988.
Department of Civil Engineering, University of Engineering & Technology, Peshawar, Pakistan.

EMPLOYMENT
08/2016–Present, Professor and Associate Chair, Department of Civil Engineering, University of Nebraska-Lincoln.
08/2006–07/2016, Associate professor, Department of Civil Engineering, University of Nebraska-Lincoln.
08/2000–07/2006, Assistant professor, Department of Civil Engineering, University of Nebraska-Lincoln.

PROFESSIONAL ACTIVITIES
1. Member, American Society of Civil Engineers (ASCE)
2. Associate Member, Institute of Transportation Engineers (ITE)
3. Chair, Transportation Research Board (TRB) Standing Committee AHB60–Highway-Rail Grade Crossings (since 2015).
Guest Editor, Special Issue on Rail Safety, Journal of Transportation Safety and Security, Taylor and Francis, Vol. 8 Supplement 1, May 2016.

Presentation Title: Public safety at highway-rail at-grade crossings

Abstract: Public safety at highway-rail at-grade crossings is an important aspect of the overall surface transportation safety. These locations serve as junctions for multiple transport modes and therefore they are conflict points between rail and highway traffic. Crashes at highway-rail crossings are usually more severe and costlier compared to crashes at other locations on the highway system. Because of the multimodal nature of highway-rail crossings, crashes can potentially disrupt both the highway and the rail networks. Dr. Khattak will present the current United States trends in safety at highway-rail crossings and some of the factors that have helped improve public safety at these locations. He will also talk about IT and ITS applications that can further improve safety at highway-rail crossings.
Keynote speaker

Dr. ANDO RYOSUKE
Director of Chief Research Engineer, Toyota Transportation Research Institute (TTRI), Japan

1. Field of expertise
- Traffic & Transportation Planning & Engineering: travel demand forecasting, traffic simulation, intelligent transportation systems et al.
- Urban Planning & Regional Planning: regional planning et al.

2. Credential or professional certificates relevant to expertise
- Professional Engineer of Japan (Civil Engineering: Road): Certified by Japanese Government in Feb. and registered in Mar. 1999
- Professional Engineer of Japan (General Technological Management: Civil Engineering- Road): Certified by Japanese Government and registered in Feb. 2002

3. Professional Society and Activities
- Japan Society of Civil Engineers
- City Planning Institute of Japan
- Society of Automotive Engineers of Japan
- City Planning Association of Japan
- Eastern Asia Society for Transportation Studies
- World Conference on Transport Research Association
- Committee on User Information Systems (AND20) of TRB (Transportation Research Board)

4. Brief Biography
1985.8 Research Associate, Tsinghua Univ., Beijing, P. R. China
1993.4 Assistant Prof. (Urban Eng.) of Gunma Univ., Kiryu, Japan
1995.1 Section Head, Katahira and Engineers Inc., Tokyo, Japan
1999.9 Division Chief, Katahira and Engineers Inc., Nagoya, Japan
2001.10~2004.10 Professor at Harbin Institute of Technology, Harbin, P. R. China
2004.4 Research General Manager and Principle Research Engineer, TTRI (Toyota Transportation Research Institute), Toyota, Japan
2005.4~present Director of Research Department and Chief Research Engineer, TTRI (Toyota Transportation Research Institute), Toyota, Japan
2011.4~present Senior Lecture at Aichi Institute of Technology, Toyota, Japan
2014.4~2017.4 Professor (Haitian Scholar) at Dalian University of Technology, Dalian, P. R. China
2015.4~ 2017.9 Senior Lecture at Daido Univ., Nagoya, Japan
2017.4~ present Professor (Bayu Scholar) at Chongqing Jiaotong University, Chongqing, P. R. China

Presentation Title: From ADAS to Autonomous Vehicles-A discussion based on surveys in Japan

Abstract: Autonomous vehicles (AVs) are expected to be one idealistic transportation mode to increase road safety and ensure the mobility needs of all people in the future. On the other hand, the reality is still at the stage of vehicles with ADAS (advanced driver assistant system). In order to investigate social acceptability for diffusion of AVs, we conducted a web based survey in Japan. In this study, effects and its social perception of ADAS is firstly analyzed. Then, social acceptability for diffusion of AVs is discussed.
Keynote speaker

Prof. Nilanjan Dey
Department of Information Technology, Techno India College of Technology, India
Editor-in-Chief of International Journal of Ambient Computing and Intelligence (IJACI)
Editor-in-Chief of International Journal of Rough Sets and Data Analysis (IJRSDA)
Editor-in-Chief of International Journal of Synthetic Emotions (IJSE)

He is an assistant prof. at the Department of Information Technology, Techno India College of Technology, Kolkata, W.B., India. He holds an honorary position of Visiting Scientist at Global Biomedical Technologies Inc., CA, USA and Research Scientist of Laboratory of Applied Mathematical Modeling in Human Physiology, Territorial Organization of Scientific and Engineering Unions, BULGARIA, "Honorary Research Scientist" of Laboratory of Graph and Bioinformatics Algorithms (LGBA)- National Dong Hwa University, Taiwan. Associate Researcher of Laboratoire RIADI, University of Manouba, TUNISIA. His research topic is Medical Imaging, Soft computing, Data mining, Machine learning, Rough set, Mathematical Modeling and Computer Simulation, Modeling of Biomedical Systems, Nature-inspired Computing, Swarm Intelligence, Genetic and Evolutionary Algorithms, Robotics and Systems, Information Hiding, Security, Computer Aided Diagnosis, Atherosclerosis. He has 16 books and 300 international conferences and journal papers. He is the Editor-in-Chief of International Journal of Ambient Computing and Intelligence (IGI Global), US, International Journal of Rough Sets and Data Analysis (IGI Global), US, and the International Journal of Synthetic Emotions (IJSE), IGI Global, US. Series Editor of Advances in Geospatial Technologies (AGT) Book Series, (IGI Global), US, Executive Editor of International Journal of Image Mining (IJIM), Inderscience, Associate Editor of the IEEE Access and Int. J. of Information Technology, Springer. Regional Editor-Asia of International Journal of Intelligent Engineering Informatics (IJIEI), Inderscience and Associated Editor of International Journal of Service Science, Management, Engineering, and Technology, IGI Global. He is scientific Member of Centro de Estudos Organizacionais e Sociais do Politécnico do Porto (CEOS.PP), Portugal.

Presentation Title: Nature-inspired Intelligence: An overview and future direction

Abstract: Nature has an amazing way that inspired researchers to explain, understand, replicate and adapt the artificial systems. The past decade perceived a progressively large prominence in the bio-inspired computing. The complexity in nature evolution follows a distinctive order along with the nature information processing that is executed in a self-organized, distributed and optimal manner. All these characteristics are emerging as new science/technology/computing fields that study problem solving procedures inspired by nature besides the attempts to understand the underlying concepts and mechanisms of natural and the biological organisms that accomplish complex tasks in a seemly way with limited resources. The integration between sciences and the nature has evolved over the centuries inspiring with novel concepts, approaches, algorithms and tools. This is settled into well-defined scientific endeavor disciplines. The field of nature-inspired is inter-disciplinary in nature combining computing science that provided wide range of algorithms, such as particle swarm optimization, firefly algorithms, ant colony optimization, and Cuckoo search. An extensive spectrum of services and applications has been presently designed and established that relies on several natural biological paradigms, including evolutionary algorithms and swarm intelligence. These paradigms have applications in various areas of pervasive computing, network security, data classification, pattern recognition, and mobile/embedded systems.
Oral Presentation
19:00-21:30, 10 June, 2017
The First Floor Meeting Room of North Building in Xi’an Hotel
(西安宾馆北一楼会议室)

1. Studies on Gravimeter Leveling Algorithm Based on Mixed Sensitivity Robust Control Theory
   WANG Hai-miao, Qin Yong-yuan, QIAO Xiang-wei, ZHANG Zhao-fei

2. The tracker with online training based on the TLD algorithm
   Yongfeng Qi and Peng Zhang

3. Mice liver cirrhosis microscopic image analysis using gray level co-occurrence matrix and support vector machines
   Yu Wang

4. Study on passenger flow analysis and prediction method of the public transport operation passenger line of the adjacent city
   Yiming ZHOU and Qingge PANG

5. Channel Estimation in OFDM System based on LS and FEC Iteration
   Wenyan Chen, Ying Huang, Xiang Zou, Wenbo Fan and Jianxin Guo

6. New HRM Practices and Innovation Performance the operating role of Information Technology Ambidexterity
   ABDUL WAHEED, MIAO XIAOMING, NAVEED AHMAD, SALMA WAHEED, ABDUL MAJEED

7. Research on UAV online trajectory planning algorithm based on CFD-GMRES method
   FANG Bin, YANG Jiang Yong, WANG Yan, BU Shuo

8. Toward Intelligent Traffic Light Control with Quality-of-Service Provisioning
   Lei Miao and Lijian Xu

9. Research on Vehicle Navigation System Based on Low-Cost Sensors
   Jiankui Du, Kanghua Tang and Xiaoping Hu

10. PCA Based Improved Face Recognition System
    Fayaz Aliand Munsif Ali Jatoi

11. Application and Structure Design of Polyvinylidene Fluoride Material in Road Energy Collection
    Xiao Jian, Zhang Yufei, Zou Xiang, Li Pengfei, Gen Hongyang and Huang Linlin

12. Online Road Boundary Detection for Sparse 3D Laser
    Pengpeng Sun, Xiangmo Zhao, Ya Sun and Haigen MIN

13. The Systematic Design of Road Traffic Signal Recognition Based on The Integration of ZigBee with Active FRID
    Ziyi LIANG and Ping XU

14. Basis function and Decomposition Level Selection of Wavelet Transform for Plantar Image Fusion
    Luying Cao

15. Metro intelligent riding system based on dynamic hybrid people identification
    Yuanbin Hou, Liu He, Yun Bai and Chen Li

16. Monocular Vision Based Object Recognition and Tracking for Intelligent Robot
    Qian Gao, Lilian Zhang, Xiaoping Hu and Xiaofeng Wang

17. Multi-source Information Fusion Model in Rule-based Gaussian-shaped Fuzzy Control Inference System
    Zairan Li

18. The Overview of Chinese Cooperative Intelligent Transportation System Vehicular Communication Application Layer Specification and Data Exchange Standard
    Yijia Feng, Dazhi He, Lei Niu, Ming Yang, and Yunfeng Guan

    Dan Wang

20. Study on Application of Wavelet Transform Reconstruction Acceleration In vehicle vibration Displacement Measurement
    Xiaofeng Feng, Bin Fang and Jiang-hong Liu

21. An Approach to Identify Travel Hotspots at Night Based on Mobile Phone Data
    Guanchen DAI, Linchao LI, Jian ZHANG, Xiaoli ZHANG, Yi LEI and Zhongyue YANG
Post Presentation

09:00-12:00, 11June, 2017
The First Floor Meeting Room of North Building in Xi'an Hotel
（西安宾馆北一楼会议室）

1. Combined Bayesian Network-based Recognition of Lane Changing Behavior
Yan Shan, Chang Wang, Juan Gao, Dingbo Song, Aisheng He and Ruibin Zhang

2. Research on Wireless Mesh Network’s Application of Position Information Sharing Service
Xu Xiao-Tao, Guo Cai-Wang and Wang Shi

3. Design and Implementation of an APP-based Intelligent Service System
JiaBao, Jun Tao, Chao Wen and Jingwen Zhang

4. Flight delay propagation analysis based on the mechanism of the Susceptible-Infected-Susceptible model
Weiwei WU, Haoyu ZHANG, Jinfu ZHU and Frank Witlox

5. Research on Constant Power Charging and Discharging of Battery Based on LCL Filter
HUANG Mengtao and ZHAO Jiamei

6. Printing Defect Detection Based on Image Processing
Huang Mengtao and Li Qinyao

7. The droplets constant culturing analyzer based on microfluidic chip control
Qiao Xinyong, Cai Qiang, Huang Cancan and Wang Zhenhua

8. An Improved Map-matching Method Based on Hidden Markov Model
Yang Linjian, Zhao Xiangmo, Zhang Wei, Meng Fanlin, Cheng Xiaodong and An Yisheng

9. Fault diagnosis method for high-speed train lateral damper based on variational mode decomposition and multiscale entropy
Changxi Li, Xiantai Gou, Xiu Li and Weidong Jin

10. Big Data Analysis for Output of Chinese Research Papers based on SCI
Li Yang and Fang Xu

11. Heath Care Management using Knowledge Management and Information Technology
JAWAD KARAMAT, TONG SHURONG, ABDUL WAHEED and KASHIF MAHMOOD

12. Research on Path Planning of Automatic Handling Robot
Yuanbin Hou, Liu He, Chunfeng Song, Yanfan Zhang and Dong Li

13. Fault Diagnosis of Mine Main Fan Based on Improved Particle Swarm Wavelet Neural Network
Xucai Guo, Xiaodan Yuan and Yong Yang

14. Implementation and adoption of E-HRM in Small and Medium Enterprises of Pakistan
ABDUL WAHEED, SALMA WAHEED, JAWAD KARAMAT, NAVEED AHMAD and ABDUL MAJEED

15. An Optimized Method for Web Service Discovery Based on Semantics
Xiaoyan Tang, Dahui Luo and Juan Huan

16. A preprocessing algorithm before conflict detection based on hybrid surveillance
Yu-Bo Wang, Bo Zhou, Wei-Dong Jiao and Hai-Jun Wang

17. Powertrain Parameter Matching and Control Strategy of Electric Drive Chassis for Extended-Range Electric Vehicle
ZHAO Jing-bo, LIU Hai-mei and BEI Shao-yi

18. An Approach of Telecommunication System For Vehicles And Infrastructures
Jiawei Wang, Nan Xu, Zhiyuan Liao, Cong Fei, Jiaheng Li and Wenpeng Zeng

Wei Mingxin

Liu Hao

21. Research on frequencies change rules of Single-damaged simply supported beam
HU Zhaoguang

22. Effect of vehicle combinations on the instability of heterogeneous urban traffic flow
Cheng Ye, Zhipeng Li, Yeqing Qian and Shangzhi Xu

23. Traffic Incident Severity Detection Model Based on Catastrophe Theory
Hongwei Li, Sulan Li, Hongwei Zhu, Xing Zhao and Xiaoli Zhang

24. A Method of Constructing Scenario Information Model Based on Power Operation Scene
Zhansheng Hou, Lin Peng, Haiyun Han, Min Xu, Gang Wang and He Wang
25. Research on Location Planning of Urban Rail Transit Emergency Facility Considering Vulnerability Node
   Lei Zhu and Ning Zhang
   Jue Hou
27. An Improved Quantum Evolutionary Algorithm for High Dimension Knapsack Problem
   Li Hao, Ma Lei and Qin Na
28. Objects Detection Based on Multi-BING Feature Model
   Yue Su
29. Print Defect Detection Based on Image Processing
   Mengtiao Huang and Qinyao Li
30. Time-Varying Formation Control and Collision Avoidance for Unmanned Aerial Vehicles based on Position Estimation
   Feng Yujie and Wang Qing
31. dSPACE Based HIL Simulation Platform for Missile Control System
   Yun Chen, Qinghua Ma, Gen Wang and Haochun Miao
32. HW Anti-interference Control of EPS System for Distributed Driving Electric Vehicle
   Zhao Jingbo
33. The Influence of Using XBRL on Quoted Company’s information Quality
   Yang Yuchen, Chen Yanli, Wang Lei and Tang Chen
34. ZLCC: Vehicle Detection and Fine-grained Classification Based on Deep Network Responses and Hierarchical Learning Policy
   Chen Joya and Shuxi Li
35. Implementation and adoption of E-HRM in Small and Medium Enterprises of Pakistan
   ABDUL WAHEED, SALMA WAHEED, JAWAD KARAMAT, NAVEED AHMAD and ABDUL MAJEED
36. The Applied Research of Image Dehazing Algorithms in License Plate Location
   Wang Rui and Wang Guoyu
37. Application of Grey Correlation Matching Model on Informatizational Assessment of Ports
   Min Zhang
38. Energy Management Strategy for a Hybrid Vehicular Power System Based on Haar Wavelet Transform
   Bo Li, Shaoyi Bei, Jingbo Zhao, Ting Zhou, Zhang Ni and Qing Liu
39. Design and development of Chongqing traffic weather service system based on WebGIS
   Han Shigang, Xia Baicheng and Min Fanhua
40. Fractional Dimension Parameters Modelling and Optimization Based on Pulverized Coal Image
   Zheng Wang and Mei Wang
41. Algorithm Design of GNSS/INS Integrated Navigation for Vehicle Location in Cities
   Han Wang, Maosong Wang and Kun Wen
42. Research on Setting and Benefit Evaluation of Integrated Waiting Area based on VISSIM Platform
   Xinchao Chen and Si Qin
陕西省计算机学会简介

陕西省计算机学会于80年代初由省科委、省教委、省电子厅、省航天局、西安交大、西工大、西安电子科技大学、西北大学、航空631所等单位共同发起成立，1987年正式成为具有独立法人资格的陕西省科协直属省一级学会。

学会第一、二、三任理事长由省科委主任梁琦教授担任，第四任理事长由省电子厅副厅长朱保马教授担任，第五、六任理事长由省科技信息研究所副所长王守智研究员担任。现任理事长为陕西省科技资源统筹中心陈锐总工程师。

原陕西省科协主席梁琦、原陕西省政协副主席刘石民、中国科学院院士沈绪榜、原陕西省电子厅副厅长朱保马、原陕西省航天局副局长何绍宗、西安交通大学教授郑守淇、西北工业大学教授康继昌、西北大学教授郝克刚、原西安电子科技大学校长、中国工程院院士段宝岩、原西北工业大学副校长高德远教授、西安交大教授鲍家元、原航空631所所长罗秋生研究员、航空631研究所研究员周耀荣、西北大学教授周明全、原省科技信息研究所副所长王守智研究员、原西安电子科技大学副校长陈平教授、第二炮兵工程学院教授赵宗涛、原航天771所所长段茂贤等担任学会名誉理事长。中国航空第一设计院研究员宁振波、西安交通大学教授齐勇、西北大学教授耿国华为学会首席专家。

第七届理事会拥有理事89名，其中常务理事32人，覆盖了全省各大专院校、研究院所及相关的企事业单位的计算机专家。学会每年组织与承担国际、全国、全省学术会议及相关活动十数项，连续多年被评为四星级（最高级）先进学会、中国科协优秀省级学会等称号。陕西省计算机学会下属5个工作委员会、9个专业委员会。
Introduction of Chang’an University

Directly affiliated to the Ministry of Education of the People’s Republic of China, Chang’an University is one of the State "211 Project" key development universities jointly run by the Ministry of Education, Ministry of Transport, Ministry of Land Resources, Ministry of Housing and Urban Rural Construction and Shaanxi Provincial Government. It is concurrently one of the key development universities on the State “985” Project advantage discipline innovation platform. The university was officially established in the year 2000 by merging the former Xi'an Highway University, Xi'an Engineering Institute and Northwest Institute of Construction Engineering, which were founded in the early 1950s. Chang’an University is located in the historical and cultural city of Xi'an and covers an area of more than 3,755 mu (approximately 250 hectares). The university comprises two teaching campuses and two practice bases. Through its 60 years of development, it has evolved into an influential comprehensive higher institution in China, with engineering as its main discipline focus, combining engineering with sciences, and with multidisciplinary development in economy, management and humanities. It has graduated more than 200,000 talents of different levels, mainly in the fields of highway transportation, land resources and environment and construction engineering.

Chang’an University has 22 schools or departments, 5 national-level key disciplines, 26 provincial-level key disciplines, 8 post-doctoral research stations, 8 first-level and 50 second-level doctoral programs, 26 first-level and 118 second-level master programs, 78 undergraduate specialties as well as 9 fields of degree conferment of Mater of Public Management and Master of Industrial and Commercial Management, and 16 enrollment fields of masters in engineering. Furthermore, it is one of the national bases of culture and quality education for college students, and the selection and training base for reserved officers of the Chinese People's Armed Police. At present, the enrollment of full-time students in Chang’an University exceeds 31,000, of whom nearly 9,000 are doctoral and mater postgraduates and international students.

The University presently boasts 2 national engineering laboratories, 7 key laboratories of the Ministry of Education, 13 key laboratories of the Ministry of Transport, Ministry of Land Recourse, Ministry of Housing and Urban-Rural Construction, the key laboratories of Shaanxi Province and engineering research centers, 2 key research center of humanities and social sciences of Shaanxi Province. Its comprehensive automobile testing ground is the only university-based testing field in China.

Chang’an University now has over 1,900 full-time teachers, including 3 academicians of Chinese Academy of Engineering, 1 national “Thousand Talents Program” expert, 3 "Yangtze River Scholar" chair professors, more than 1,060 full and associate professors, of whom more than 150 are doctoral supervisors, and more than 780 are master supervisors, 7 national and provincial level experts with outstanding contributions, and 80 teachers who have been enrolled on the advanced talent list of the “National Talent Project of the New Millennium” or have been entered in the advanced talent bank of Ministry of Education, Ministry of Transportation and Shaanxi Province.
Striving along the route of combining teaching, scientific research and school-run industries, in recent years, the university has accomplished more than 6,000 scientific research projects, including the national “973” and “863” key projects, the National Natural Science Foundation research projects. 18 projects were awarded national technology prizes including the first prize of the National Science and Technology Progress Award. Over 500 projects were awarded ministerial and provincial level prizes. The university has accomplished more than 360 education teaching research projects including national planning project. More than 50 projects were awarded the national and provincial Teaching Achievement Award. Its annual scientific research funds sum up to more than 700 million yuan.

The national level academic journals published by Chang’an University include China Journal of Highway and Transport, Journal of Traffic and Transportation Engineering, Journal of Architecture and Civil Engineering, Journal of Earth Sciences and Environment, Journal of Chang’an University (Natural Science Edition), Journal of Chang’an University (Social Science Edition), Road Machinery & Construction Mechanization and Automobile Drivers. Among them, 2 are national key development journals, 3 are Ei database entry journals, and 4 are Chinese core journals. China Journal of Highway and Transport and Journal of Traffic and Transportation Engineering are in the rank of “100 Remarkable Academic Journals of China”.

The enrollment of international students commenced in 1956. Till now, the university has turned out nearly 2000 graduates of different kinds for nearly 40 countries such as the United States, Germany, Japan, Australia, Vietnam, Tanzania and Yemen. The number of international students in university now is over 300.

The university is also one of the first universities which have provided foreign aid education and recruited students from regions like Hong Kong, Macao and Taiwan. Following the trend of the internationalization of higher education of the country, in recent year, the university has strengthened its exchange and cooperation with more than 120 institutions of higher education and scientific research institutions from countries such as the United States, the United Kingdom, Russia, Ukraine, Japan and the South Korea. It has also joined the Sino-US “1+2+1” Talent Nurturing Program and established an international universities league with Rostov State Architectural University from Russia. The Chang’an Foreign Language Training Centre of the State Administration of Foreign Experts Affairs is located here. In recent year, the university has hosted and sponsored a series of high-level international and national academic conferences.

After years of long exploration and practice, Chang’an University has gradually formed its spirit of “self-improving constantly, seeking truth and being pragmatic, striving in unity and pursuing excellence” and earned its high social reputation. On this new historical stage, the university continues to adhere to the socialist theory with Chinese characteristics and strive along the path of connotation, characteristic and harmonious development so as to maximally improve its talent cultivation quality and build the university into a first-class tertiary institution with distinctive characteristics and remarkable strength in China.
Introduction of Shaanxi Sirui Advanced Materials CO., LTD

Shaanxi Sirui Advanced Materials CO., LTD was established in 1995. Sirui has been honored as “High-Tech Enterprise”, “Provincial Enterprise Technology Center”, “Provincial Postdoctoral Innovation Base”, “Provincial Enterprise Growth Star”, “Little Giant of Technology in Xi’an”, “Top 20 of Small and Medium-sized Enterprises in Xi’an”, “High Growth Business in Xi’an”, “Municipal Outstanding Technology Center”, “Star Enterprise of Strategic emerging industry in High-Tech Zone” in 2013.

Sirui is professional in the production of Cu-Cr (VI), Cu-W (SF6) and Cu-Cr-Zr alloys, and the targets for vacuum sputtering, as well as the electrode products for automobile welding. These products are widely used in the circuit breaker, motor, high-speed railway, vacuum sputtering and automobile welding.

Sirui is located in high-tech zone in Xi’an, and has a registered capital of 60 million RMB and cover an area of more than 50,000 ㎡, including more than 40,000 ㎡ of building area. Sirui possess more than 700 facilities for various manufacturing and testing. Our company has set up production lines ranging from vacuum infiltration CuCr40~50, vacuum casting CuCr10~40 and vacuum infiltration Cu-W, to VAR (Vacuum Arc Remelting) CuCr25~50, vacuum casting CuCr1Zr, Magnetic Levitation Cold Crucible Melting, PM (Powder Metallurgic) sputtering targets.

Awards and honors as follows: High-performance Cu-Cr contact materials won the second prize of Industry University Research joint project of Shaanxi province in 1996; Manufacture technology of low-cost, high-quality Cu-Cr contact materials got the funding of national 863 project in 2003; Cu-Cr contact materials were ranked as the national key new products in 2006; Project of Cu-Cr contact materials won the first prize of science and technology of Shaanxi province in 2007; Project of Cu-Cr contact materials got the second prize of national science and technology progress in 2007; Technology innovation enterprise of China federation of industry and commerce in 2013.


Sirui has been the largest professional manufacturer of Cu-Cr alloy materials, the products have been provided to all over the world. Market share in domestic up to 74.5%, and mainly sold to USA, Canada, UK, France, German, Italy, Turkey, Russia, Japan, Korea, India, Malaysia, and so on. Sirui has set the strategic cooperation relationships with Schneider, Siemens, Toshiba, Hitachi, ABB, Bombardier, Alstom.
特种飞行器研究院简介

特种飞行器工程研究院（以下简称“研究院”）是由陕西中科博亿电子科技有限公司、航天科工集团三院35所、航天科工集团六院210所联合成立，专门从事特种飞行器研制及航空、航天领域高新技术研究、应用的独立企业法人。

依靠中科博亿在特种飞行器领域多年积累的丰富成果和在市场运作方面的独到经验，以及航天科工院所成熟高效的研发管理模式和在专业分系统领域领先的技术专长，研究院通过整合各方优势，成为我国首个担当国家武器装备科研生产总体任务的民营单位。其将以某型单兵便携察打一体无人机为基础，在多个军用和民用领域拓展无人机研制和应用业务，为我国特种飞行器产业发展提供有力支撑，有助于打破原有行业发展的诸多壁垒，加速“军民融合”步伐，推动上下游产业协调发展。

在做好产品研制任务的同时，研究院充分发挥人才集聚优势和产业加速器功能。在团队建设方面，通过项目吸引人才，通过管理留住人才，组建了一支专业水平高、综合素质强的研发生产队伍，团队内硕士以上学历人员占比超过70%。与此同时，研究院坚持“开放、共享”的办院特色，与国内知名高校、科研院所和优秀企业广泛合作，做“民参军”和“军转民”的桥梁，促进地方军民融合产业向更深层次发展。

面向未来，研究院将继续以“科技创新、产业报国”精神为指导，在强化技术实力、管理水平和资本运作，努力做大作强的基础上，借助国家政策推动，建立“大众创业、万众创新”的产业集群平台，承担更多社会责任，创造更大的经济效益和社会效益！
Conference Venue and Hotel information

Xi'an Hotel (西安宾馆)

Website: http://www.xahotel.com/

Address: 58#, North Chang'an Road, Xi'an, China (中国西安市长安路北段 58 号)

Tel: (86-029)87666666
Fax: (86-029)87666333

Xi'an Hotel is a 4-star international hotel managed by Shaanxi Tourism Group Company Limited, which is located on the north-south axis of ancient Xian (No. 58, North Chang'an Road, Xian, China). It is adjacent to the famous small Wild Goose Pagoda Garden, the Shaanxi History Museum, Shaanxi Library, Shaanxi Art Museum, Shaanxi International Exhibition Centre, and Shaanxi International Exhibition Centre, which is only 1 kilometre from the city centre, 4 kilometres from the railway station, 49 kilometres from the international airport, and nearby are the city's two ring roads. This location gives it a strategic advantage in terms of transportation.

After years of development and growth, the hotel not only retains the fusion of historical and cultural features of ancient Xian, but also exudes the style of modern international hotels. The hotel currently has 538 bedrooms of different types and standards, equipped with broadband internet access. The hotel has various dining and entertainment facilities, such as Chinese and Western restaurants, bars, karaoke rooms, fitness centres, billiards rooms, swimming pools, conference centres, and various conference rooms, which can accommodate a variety of needs for business, tourism, and conferences.