# EAI ADHIP 2023 - 7th EAI International Conference on Advanced Hybrid Information Processing

# EAI ADHIP 2023 - 7th EAI International Conference on Advanced Hybrid Information Processing

Conference Date: 2023 September 22 – 24 Qihang activity center, Harbin Engineering University, Harbin, China

Organizer: European Alliance for Innovation (EAI) Undertaker: College of Information and Communication Engineering, Harbin Engineering University

### EAI ADHIP 2023 - 7th EAI International Conference on Advanced Hybrid Information Processing

#### **Conference Calendar Date: 2023 September 23**

Location	Time	Event		
Qihang activity center, Harbin Engineering University				
	Main Venue: Teacher Salor Online Conference Num:	1		
Main Venue	8:30-9:00	Opening Ceremony & Group Photo		
Main Venue	9:00-9:50	Keynote Presentation		
Main Venue	9:50-10:00	Question		
10:00-10:20		Tea Break		
Main Venue	10:20-11:10	Keynote Presentation		
Main Venue	11:10-11:20	Question		
Lunch				
11:20-13:00 Lunch				
Session 1				
Changjiang Hall Online Conference Num:				
Changjiang Hall	14:00-15:30	Academic Presentation		
15:30-15:50		Tea Break		
Changjiang Hall	15:50-17:20	Academic Presentation		
	Session 2			
Huanghe Hall		Conference Num:		
Huanghe Hall	14:00-15:30	Academic Presentation		
15:30	Tea Break			
Huanghe Hall	15:50-17:20	Academic Presentation		
	Banquet			
18:00 Banquet				

Location	Time	Event		
Session 3				
Changjiang Hall	Online Conference Num:			
Changjiang Hall	08:30-10:00	Academic Presentation		
10:00-	Tea Break			
Changjiang Hall	10:20-11:50	Academic Presentation		
Session 4 Huanghe Hall Online Conference Num:				
Huanghe Hall	08:30-10:00	Academic Presentation		
10:00-10:20 Tea Break		Tea Break		
Huanghe Hall	10:20-11:50	Academic Presentation		
Lunch				
11:20-13:00 Lunch				
Session 5 Changjiang Hall Online Conference Num:				
Changjiang Hall	14:00-15:30	Academic Presentation		
15:30-15:50		Tea Break		
Changjiang Hall	15:50-17:20	Academic Presentation		
Session 6 Huanghe Hall Online Conference Num:				
Huanghe Hall	14:00-15:30	Academic Presentation		
15:30-15:50		Tea Break		
Huanghe Hall	15:50-17:20	Academic Presentation		
	Banquet			
18:00 Banquet				

## **Conference Calendar Date: 2023 September 23**

### Title: A Connected Sky: 6G communications for UAVs Expert: Cesar Briso Affiliation: Technical University of Madrid Title: Professor



**Abstract:** The integration of UAVs into unify international air space requires the use of advanced communications with high-mobility communication platforms to provide line-of-sight links and further assist the terrestrial communications. 6G aims to provide ubiquitous

wireless connectivity for the whole world. However, the demands for high-quality and ubiquitous wireless services impose enormous challenges to existing cellular networks. Unmanned aerial vehicles (UAVs), due to their agile maneuverability, can be dispatched as high-mobility aerial communication platforms to provide high quality links and further assist the terrestrial communications in 6G.Hence, integrating UAVs into 6G networks is a promising solution to achieve such goals. 6G calls for a paradigm on the design of both cellular and UAV communications systems due to the high altitude and mobility of UAVs, the unique channel characteristics of UAV-ground links; the asymmetric quality of downlink and uplink data transmission; weight and power limitations of UAVs; as well as the intra-system and inter-system interference of the integrated networks. In order to provide users with smooth service experience and improve the resource utilization of integrated UAVs and 6G networks.

**Short bio:** Cesar Briso is full professor and director of the Radiocommunications Group at the Technical University of Madrid, SPAIN. He has a 30 -year research trajectory, initially focused on the study and design of circuits and systems of high frequency and radar, and in the last 20 years he has focused on the design and development of wireless communications for transportation systems, especially focused on high speed trains, metropolitan railways and Unmanned aerial Vehicles. On 2010 he started working on wideband channel critical communications using 5G. On this topic he has done relevant research on the last years, making several scientific publications and collaborations with international experts of Europe, China and USA. He has managed 23 national and international research projects and hold two patents on critical communications for transportation Systems", inside the Chinese program "The Belt and the Road". He is also author of 40 journal papers and has participated on more than 60 international congresses. He has been editor of 6 Special Issue and 2 books on wireless communications for transportation. He has received 4 National prizes for his research.

Title: Inverse synthetic aperture radar imaging of target with complex motions Expert: Yong Wang Affiliation: Harbin Institute of Technology Title: Professor



Abstract: Inverse synthetic aperture radar (ISAR) imaging of target with complex motion is very important and difficult in the field of

radar imaging, and it has great value in practice. For the target with complex motion, the rotational velocity and rotational axis are time varying, and this will induce the time varying character for the Doppler frequency of the received signal. Thus, the traditional radar imaging algorithm will be inappropriate in this case, and the corresponding radar images will be blurred severely and can not be recognized correctely. Then, the received signal can be characterized as multi-component polynomial phase signal (PPS) for the target with complex motion, and the time frequency analysis for the PPS should be implemented to improve the radar image quality. This report will introduce three kinds of methods, including the parameters estimation, the time frequency representation and the signal decomposition technique for the treatment of multi-component PPS, and combined with the range instantaneous Doppler (RID) technique, the radar image quality can be improved significantly for the target with complex motion.

**Short bio:** Dr. Yong Wang is currently a professor with the institute of electronic engineering technology in Harbin Institute of Technology (HIT). His main research interests are in the fields of time frequency analysis of nonstationary signal, radar signal processing, and their application in synthetic aperture radar (SAR) imaging. Dr. Yong Wang has published more than 170 papers, and most of them appeared in the journals of IEEE Trans. On GRS, IET Signal Processing, Signal Processing, etc. He received the National Science Fund for Distinguished Young Scholars in 2023, and the National Natural Science Foundation for Outstanding Young Scholars in 2016, and received the Program for New Century Excellent Talents in University of Ministry of Education of China in 2012, and the Excellent Doctor's Degree nomination Award in China in 2010. He has been selected as the editorial boards for some famous journals, such as the 《Acta Electronica Sinica》, and he is also selected as the IET Fellow.

**Changjiang Hall** Date: 9.23 Time Title Host Author Note Personalized Recommendation Method of 14:00-JuanJuan Zou Online Career Guidance Curriculum Resources 14:10 Based on Collaborative Filtering 14:10-Tool Condition Monitoring and Maintenance Yong Ge 14:20 Based on Deep Reinforcement Learning Research on Control of Virtual and Real Drive 14:20-System of Intelligent Factory Robot Based on Yong Ge 14:30 Digital Twin 14:30-Information Check and Control System of Wenwei Li 14:40 Substation Telemotor Based on Computer Vision Intelligent Fusion Method for College Students' 14:40-Yu Zhao Psychological Education Score Data Based on 14:50 Improved Bp Algorithm Optimal Planning Method of Rural Tourism 14:50-Route Based on Multi Constraint and Multi Yi Liu 15:00 Objective 15:00-Vertical Search Method of Tourism Information Honghong Chen 15:10 Based on Mixed Semantic Similarity Retrieval Algorithm of Digital Information 15:10-Zefeng Li Resources for Legal Theory Teaching Based on 15:20 Multi-scale Dense Network A Storage Method of Online Educational 15:20-Resources for College Courses Based on Mingjie Zheng 15:30 Artificial Intelligence Technology Tea Break Allocation Method of Teaching Resources of 15:50-Yan Liu Talent Training Course Based on Bp Neural 16:00 Network 16:00-Anti Noise Speech Recognition Based on Deep Yanning Zhang 16:10 Learning in Wireless Communication Networks Acquisition Method of Direct Sequence Spread 16:10-Jia Pan Spectrum Signal Based on Deep Residual 16:20 Network A Secure Sharing Method for University 16:20-Xinwei Li Personnel Archive Data Based on Federated 16:30 Learning 16:30-Research on Software Test Data Optimization Zheheng Liang 16:40 Using Adaptive Differential Evolution Algorithm Personalized Scheduling of Distributed Online 16:40-Xiaotang Geng Educational Resources Based on Simulated 16:50 Annealing Genetic Algorithm Accurate recommendation of personalized 16:50-Xiaojing Wu mobile teaching resources for piano playing and 17:00 singing based on collaborative filtering algorithm Research on Fault Signal Reconstruction of 17:00-Lingling Cui Treadmill Equipment Based on Deep Neural 17:10 Network Intelligent Library Educational Information 17:10-Digital Resources Retrieval Based on Ant Mingjie Zheng 17:20 Colony Algorithm

Huang	ghe Hall		Date:	9.23
Time	Author	Title	Host	Note
14:00- 14:10	Dan Wang	A Prediction Method of Students' Output and Achievement in Higher Vocational English Online Teaching Based on Xueyin Online Platform		
14:10- 14:20	Zhipeng Chen	Classification Algorithm of Sports Teaching Video Based on Wireless Sensor Network		
14:20- 14:30	Dan Wang	Monitoring Method of Students' Achievement of Curriculum Objectives in Higher Vocational English Online Teaching Based on Xueyin Online Platform		
14:30- 14:40	Meiling Ou	Research on the Push of Online Teaching Resources for Innovation and Entrepreneurship Based on User Characteristics		
14:40- 14:50	Xiaotang Geng	Method for Digital Resource Allocation in Mobile Online Education Based on Ant Colony Algorithm		
14:50- 15:00	Chenyang Li	A Machine Learning Based Security Detection Method for Privacy Data in Social Networks		
15:00- 15:10	JuanJuan Zou	An Online Integrated Classification Algorithm for Innovation and Entrepreneurship Teaching Data Based on Decision Tree		
15:10- 15:20	Meiling Ou	High Quality Resources Sharing of College Students' Career Guidance Course Teaching Based on Decision Tree Classification Algorithm		
15:20- 15:30	Hui Li	Evaluation of Word-of-mouth Influence of Cross- border E-commerce Products Based on Social Network Data Analysis		
		Tea Break		
15:50- 16:00	Zimin Bao	A Remote Access Control Method for Electronic Financial Management Data Based on Object Attribute Matching		
16:00- 16:10	Xiaoyan Xu	Research on Adaptive Tracking of University Funding Objects from the Perspective of Big Data		
16:10- 16:20	Xiaoyan Xu	Research on Rapid Selection of University Funding Objects Based on Social Big Data Analysis		
16:20- 16:30	Huibing Cao	Research on Personalized Push of Mobile Education Resources Based on Mobile Social Network Big Data		
16:30- 16:40	Huibing Cao	Evaluation Method of Online Education Effect in Colleges and Universities Based on Data Mining		
16:40- 16:50	Qiao Wu	Method for Integrating Sports Information Resources Based on Fuzzy Clustering Algorithm		
16:50- 17:00	Hao Zhu	Research on Energy Consumption Data Monitoring of Smart Parks Based on IoT Technology		
17:00- 17:10	Yanning Zhang	Design of a Multidimensional Teaching Effectiveness Evaluation System Based on Information Integration		
17:10- 17:20	Xiaoli Wang	Evaluation Method of Higher Vocational Online Education Effect Based on Data Mining Algorithm		

TimeAuthorTitleHostN08:30- 08:40Jia PanProcessing Method of Civil Radar Echo Signal Based on Kalman Filter Algorithm08:40JianmingFrequency Offset Estimation of X-band Marine Based on Phase Difference08:40-JianmingFrequency Offset Estimation of X-band Marine Radar Sampling Signal Based on Phase Difference08:50WangRadar Sampling Signal Based on Phase Difference08:50-JianmingTerrain Echo Signal Enhancement Technology of Marine Radar Based on Generalized Filtering09:00-Liang PangDesign and Improvement of Airborne Ocean Radar Fault Detection Algorithm09:10-Lingling CuiAn Automatic Control Algorithm for Sampling and Timing of Civil Radar Signal Based on DSP09:20- 09:20- 09:30-Xin ZhangDesign of Control System for Constant Speed Variable Pitch Loaded Multi Axis Unmanned Aerial Vehicle Based on Lidar Technology09:30- 09:40- 09:40- 09:50Rong ZhangResearch on Railway Frequency Shift Signal Detection Based on Transient Electromagnetic Radar09:40- 09:50Kong ZhangMulti Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	Note
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09:20   Non State   Timing of Civil Radar Signal Based on DSP     09:20- 09:30   Xin Zhang   Design of Control System for Constant Speed Variable Pitch Loaded Multi Axis Unmanned Aerial Vehicle Based on Lidar Technology     09:30- 09:30- 09:40   Rong Zhang   Research on Railway Frequency Shift Signal Detection Based on Transient Electromagnetic Radar     09:40- 09:50   Rong Zhang   Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	
09:20- 09:30   Xin Zhang   Variable Pitch Loaded Multi Axis Unmanned Aerial Vehicle Based on Lidar Technology     09:30- 09:40   Rong Zhang   Research on Railway Frequency Shift Signal Detection Based on Transient Electromagnetic Radar     09:40- 09:50   Rong Zhang   Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	
09:30   Xin Zhang   Variable Pitch Loaded Multi Axis Unmanned     09:30-   Aerial Vehicle Based on Lidar Technology     09:30-   Rong Zhang   Research on Railway Frequency Shift Signal     09:40   Detection Based on Transient Electromagnetic     09:40-   Rong Zhang   Multi Target Tracking Method for Rail Transit     09:50   Rong Zhang   Crossing Based on Transient Electromagnetic     Radar   Radar	
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09:30- 09:40 Rong Zhang Detection Based on Transient Electromagnetic Radar   09:40- 09:50 Rong Zhang Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	
09:40 Radar   09:40- 09:50 Rong Zhang Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	
09:40- 09:50 Rong Zhang Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar	
09:40- 09:50 Rong Zhang Crossing Based on Transient Electromagnetic Radar	
09:30 Radar	
09:50- Xian Zhou Commerce Potential Customers Based on Apriori	
10:00 Association Rules Algorithm	
Tea Break	
10:20- Bo Jiang Design of English Mobile Online Education	
10:30 Platform Based on GPRS/CDMA and Internet	
10:30- Qiao Wu Application of Artificial Intelligence Technology	
10:40 on Online Cultural Education Mobile Terminal	
10:40- 10:50Liang ZhangCollege Psychological Mobile Education System Based on GPRS/CDMA and Internet	
10:50 Ending Based on GPRS/CDMA and Internet   10:50- V: Path Planning Method of Garbage Cleaning Robot	
11:00 Xiaoying Lv Based on Mobile Communication Network	
11.00     Based on Moone Communication Network       11.00     Research on Electrical Equipment Status	
11:00- Wenwei Li Monitoring Method Based on Wireless	
11:10 Communication Technology	
The Application and Research of Intelligent Mobile	
11:10- Bo Jiang Terminal in Mixed Listening and Speaking	
11:20 Teaching of College English	
Research on Anti-interference Dynamic Allocation	
11:20- Hongbo Xiang Algorithm of Channel Resources in Heterogeneous	
11:30 Thompso Mang Migorunn of Chamier Resources in Theorogeneous Cellular Networks for Social Communication	
11:30- Numerical Simulation of Dual Laterolog Response	
11:40 Hongbo Xiang Based on Wireless Communication Technology	
Sharing Method of Online Physical Education	
11:40- Zhipeng Chen Teaching Resources in Higher Vocational Colleges	
11:50 Empeng chen reaching Resources in Figher Vocational Coneges Based on Soa Architecture and Wireless Network	

Huang	he Hall		Date:	9.24
Time	Author	Title	Host	Note
08:30-	Shida Chen	Application of Intelligent Mobile Terminal in		
08:40	Silida Cileli	Virtual Building Construction Training Teaching	l	
08:40-		Numerical Simulation Model Construction of	1	
08:50	Liang Pang	Swept Frequency Dielectric Logging Response	1	
08.50		Based on Wireless Communication	1	
08:50-	Yanlan Huang	Sports Athlete Error Action Recognition System	1	
09:00	Tainan Huang	Based on Wireless Communication Network	1	
09:00-		Design of Adaptive Detection Algorithm for Mobile	1	
09:10	Fang Qian	Social Network Security Vulnerability Based on	I	
07.10		Static Analysis	1	
09:10-		Dynamic Mining of Wireless Network Information	1	
09:20	Fang Qian	Transmission Security Vulnerabilities Based on	1	
07.20		Spatiotemporal Dimension	1	
09:20-		The Intelligent Monitoring System of University	1	
09:30	Hui Li	Personnel File Falsification Data Based on Wireless	I	
		Network	I	
09:30-	Liwen Liu	Research on Image Super Resolution	I	
09:40	Liwell Liu	Reconstruction Based on Depth Learning	I	
09:40-		Classification of Hyperspectral Remote Sensing	I	
09:50	Shida Chen	Images Based on Three-Dimensional Convolutional	l	
09.50		Neural Network Model		
09:50-	Yuan Wang	Texture Image Feature Enhancement Processing	1	
10:00	Tuali Walig	Method Based on Visual Saliency Model		
		Tea Break		
10:20-		Interactive Sharing Method of Digital Media Image		
	Wei Li	Information Based on Differential Privacy	I	
10:30		Protection	I	
10:30-	W-: I :	A Hierarchical Smoothing Method for Animation	I	
10:40	Wei Li	Image Based on Scale Decomposition	I	
10.40		Video Image Based Monitoring Method for	l	
10:40-	Liang Yuan	Operation Status of Internet of Things Network	l	
10:50	C C	Equipment	I	
10:50-	I' V	Design of Power System Remote Video Monitoring	I	
11:00	Liang Yuan	System Based on RTP Technology	I	
11:00-	Yongchang	RLE Algorithm Based Image Data Coding Method	l	
11:10	Yao	of Tujia Brocade Double Knitting Pattern	l	
11.10		A Blockchain Based Real-Time Sharing Method for	l	
11:10-	Zefeng Li	Ideological and Political Mobile Education	l	
11:20		Resources	I	
11.20		Architecture Design of Employment Education	l	
11:20-	Weiwei Zhang	Network Platform Based on Blockchain	l	
11:30	8	Technology	l	
44.05	T	Research on Blockchain Based Data Sharing of	l	
11:30-	Xiaoli Wang	Teaching Resources in Higher Vocational Mobile	l	
11:40	3	Education	l	
11:40-	7' ' 5	Blockchain Based Logistics Tracking and	l	-
11:50	Zimin Bao	Traceability Method for E-Commerce Products		

Chang	jiang Hall		Date:	9.24
Time	Author	Title	Host	Note
14:00- 14:10	Yi Liu	Personalized Recommendation Method of Rural Tourism Routes Based on Mobile Social Network		
14:10- 14:20	Yan Liu	A Personalized Recommendation Method for English Online Teaching Video Resources Based on Machine Learning		
14:20- 14:30	Honghong Chen	Personalized Recommendation Method for Tourist Attractions Based on User Information Mixed Filtering		
14:30- 14:40	Jin-tian YIN	Monitoring Method of Permanent Magnet Synchronous Motor Temperature Variation Signal Based on Model Prediction		
14:40- 14:50	Xinwei Li	Research on Personalized Recommendation of Mobile Social Network Products Based on User Characteristics		
14:50- 15:00	Rong Yu	A Personalized Recommendation Method for Online Painting Education Courseware Based on Hyperheuristic Algorithm		
15:00- 15:10	Xin Zhang	Reliability Analysis of Aeroengine Teaching System Based on Virtual Reality Technology		
15:10- 15:20	Zheheng Liang	Research on Detection Method of Differential Code Coverage in Power Grid Information System		
15:20- 15:30	Chao Ma	Intelligent Monitoring Method of Aircraft Swashplate Plunger Pump Fluidity Based on Different Working Conditions		
		Tea Break		
15:50- 16:00	Chunhui Liu	Design of Mobile Terminal Music Education Platform Based on Django Framework		
16:00- 16:10	Xiaojing Wu	Construction of Mobile Education Platform for Piano Tuning Course Based on LogicPro Software		
16:10- 16:20	Jin-tian YIN	Temperature Control Technology in Heating Room Based on Multi-channel Temperature Signal Denoising		
16:20- 16:30	Bo Li	Research on Pedestrian Tracking in Urban Rail Transit Stations Based on Adaptive Kalman Filtering		
16:30- 16:40	Yuansheng Chen	Badminton Flight Trajectory Location and Tracking Algorithm Based on Particle Filter		
16:40- 16:50	Chen Zhao	Design of Substation Battery Condition Monitoring System Based on SDH Network		
16:50- 17:00	Liwen Liu	Dynamic Tracking Method for Train Number of Rail Transit Signal System		
17:00- 17:10	Bo Li	Centralized Monitoring System of Rail Transit Multiple Signals Based on Bus Technology		
17:10- 17:20	Hao Zhu	Equilibrium Scheduling of Dynamic Supply Chain Network Resources under Carbon Tax Policy		

Huanghe Hall Date: 9.24 Time Title Host Note Author Incremental Update Algorithm of Athlete Physical 14:00-Yuansheng Training Information Under Dynamic Iterative 14:10 Chen Sampling Design of Mobile Education Platform for 14:10-Yu Zhao University Network Law Popularization Based on 14:20 Streaming Media Technology 14:20-Online Teaching Platform of Career Guidance Weiwei Zhang 14:30 Course Based on Virtual Reality Intelligent Control Method of Indoor Physical 14:30-Hai Huang Environment in Atrium under Social Information 14:40Network Intelligent Monitoring Method for Static Comfort 14:40-Chao Ma of Ejection Seat Based on Human Factors 14:50 Engineering Design of Mobile Education Evaluation System for 14:50-College Students Based on Digital Badge Liang Zhang 15:00 Technology -- Taking Legal Education as an Example A Method of Resolving the Conflict of Shared 15:00-Resources in Online Teaching of Design Rong Yu 15:10 Professional Artworks Based on Feedback Integration 15:10-Design of Substation Battery Remote Monitoring Chen Zhao 15:20 System Based on LoRa Technology Optimization Scheduling Algorithm of Logistics 15:20-Yongchang Distribution Vehicles Based on Internet of Vehicles 15:30 Yao Platform Tea Break Design of Logistics Information Tracking System 15:50-Yarong Zhou for Petrochemical Enterprises under the 16:00 Background of Intelligent Logistics Real Time Tracking of The Position of Intelligent 16:00-Donge Zhou Logistics Cold Chain Transportation Vehicles 16:10 Based on Wireless Sensor Networks A Real Time Tracking Method for Intelligent 16:10-Donge Zhou Logistics Delivery Based on Recurrent Neural 16:20 Network 16:20-A Real Time Tracking Method for Unmanned Yarong Zhou 16:30 Traffic Vehicle Paths Based on Electronic Tags 16:30-Error Motion Tracking Method for Athletes Based Yanlan Huang 16:40 on Multi Eye Machine Vision 16:40-Research on Real Time Tracking Method of Yuan Wang 16:50 Multiple Moving Objects Based on Machine Vision A Method for Identity Feature Recognition in 16:50-Wireless Visual Sensing Networks Based on Chenyang Li 17:00 Convolutional Neural Networks 17:00-Feature Recognition of Rural Household Domestic Xiaoying Lv 17:10 Waste Based on ZigBee Wireless Sensor Network A Method of Recognizing Specific Movements in 17:10-Children's Dance Teaching Video Based on Edge Chunhui Liu 17:20 Features

#### **College of Information and Communication Engineering**

There are 140 staff members in the college, including 22 professors and 56 associate professors. 90 teachers have doctor degrees, accounting for 86% of the total number of full-time teachers. Among the teachers, there is one national famous teacher and three National level talents, one experts enjoying special government subsidies, and four provincial famous teachers.

Teachers of the college have made outstanding achievements in teaching and scientific research. They have successively won 2 National Excellent Teaching Teams, 1 National Excellent Course and 9 Provincial Excellent Courses, 1 National Teaching Achievement Award, 6 provincial first prize and 11 second prize, and published more than 100 academic monographs and textbooks. In recent years, the colleges has undertaken 48 National Natural Science Foundation projects, 7 Doctoral Program projects, more than 60 provincial and ministerial level scientific research projects, and nearly 300 other types of scientific research projects. The college has also achieved a number of achievements with international advanced level. There were 3 second prizes and 2 third prizes of National Science and Technology Progress, and 2 first prizes, 25 second prizes and 41 third prizes of provincial and ministerial science and technology progress. More than 2000 academic papers have been published, of which more than 1000 have been indexed in SCI, EI and ISTP.

While strengthening the basic education, the college pays attention to the cultivation of students' comprehensive quality, and strives to cultivate students' innovative consciousness and practical ability. Over the past few years, nearly 1000 students have participated in the academic competition, among them, more than 10 have won awards in the international competition, more than 100 have won the national first or second prizes, and more than 200 have won provincial awards. In previous academic competitions, the award-winning rate has reached more than 50%.

