Engineering-Electrical Engineering and Automation Specialty

Staff Handbook

College of Mechanical and Electrical

Made in 2026

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Staff Handbook

Chai Bin

Name	Chai Bin		
Post	Lecturer, Electrical Engineering and Automation		
Courses Taught	Circuit Principles (2)		
Academic career	Ph.D. in Control Science and Engineering	Northwestern Polytechnical University	2025
Employment	Position: Lecturer	Employer Kunming University	Period January 2026 – Present
Research and development projects over the last 5 years	None		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	(1) Chai, B., Qian, K., Shen, S.*, Tan, X., & Hu, Y. (2026). *Enhancing long short-term memory for electric load forecasting with multi-batch Bayesian optimization*. *Electric Power Systems Research*, 252, 112436. https://doi.org/10.1016/j.epsr.2025.112436 (IF = 4.2/2024, JCR Q2/2024, CAS Tier "Emerging" 2026 Engineering Q3). (2) Chai, B., Qian, K., Tan, X*., Shen, S., & Hu, Y. (2025). A fixed-time convergent robust zeroing neural network for time-varying linear matrix equation with application. Applied Mathematical Modelling, 116626. https://doi.org/10.1016/j.apm.2025.116626 (IF = 5.1/2024, JCR Q1/2024, CAS Tier "Emerging" 2026 Interdisciplinary Mathematics Q1 Top).		
Activities in specialist bodies over the last 5 years	None		

Staff Handbook

Hu Zhongyu

Name	*Hu Zhongyu*		
Post	*Electrical Engineering and Automation / Associate Professor*		
Courses Taught	Circuit Principles (1)		
Academic career	*Initial academic appointment*	*Institution*	*Year*
	Master's Degree (Communication and Information System)	*Yunnan University*	*2009*
	Bachelor's Degree (Electronic Information Science and Technology)	*Yantai University*	*2004*
Employment	*Position*	*Employer*	*Period*
	Teacher, Vice Dean, Class Supervisor	*Kunming University*	*07/2004 – Present*
Research and development projects over the last 5 years	*1. Project: Research on Intelligent Monitoring System Based on Ubiquitous Power Internet of Things* *Period: 2020–2023* *Partner: Yunnan Provincial Department of Science and Technology* *Funding: ¥100,000* *2. Project: Reconstruction and Practice of Practical Teaching System in Applied Universities Under the Background of New Engineering* *Period: 2023–2025* *Partner: Kunming University* *Funding: ¥20,000* *3. Project: Curriculum Construction and Teaching Reform of Automatic Control Principle Based on New Energy Grid Connection* *Period: 2023* *Partner: Industry-University Cooperation Project, Ministry of Education* *Funding: ¥50,000*		
Industry collaborations over the last 5 years	*Project: Curriculum Construction and Industry-University Collaborative Education of Automatic Control PrinciplePartners: Industry-university cooperation institutions (Ministry of Education), Yunnan intelligent manufacturing enterprises*		
Patents and proprietary rights	*None*		
Important publications over the last 5 years	*Total publications: 7*		

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	1. Hu Zhongyu. The Simulation and Analysis of the DV-Hop Algorithm. ICNISC2023, EI Compendex, 2023 (First Author) *2. Hu Zhongyu. Research on Attenuated DC Component Filtering Algorithm Based on DFT/FFT. Electronic Technology, 2019 (First Author)* *3. Hu Zhongyu. Exploration and Practice of Online Teaching Reform of Circuit Principle. EELSS 2020, 2020 (First Author)* *4. Hu Zhongyu. Novel Predictive Current Control Strategy for APF with LCL Filter. Journal of Power Supply, 2020 (Second Author)*
Activities in specialist bodies over the last 5 years	*None*

Staff Handbook

Huang Yue

Name	*Huang Yue*		
Post	*Electrical Engineering and Automation / Lecturer*		
Courses Taught	Fundamentals of Engineering Drawing Power System Protective Relaying Introduction to Electrical Engineering		
Academic career	*Undergraduate degree (Industrial Automation)*	*Yunnan University of Technology*	*1996*
Employment	*Full-time Teacher* *Full-time Teacher*	*Kunming University* *Kunming Light Industry School*	*2002.09 - Present* *1996.08 - 2002.08*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*Research on Application of Virtual Simulation Technology in Electrical Engineering Teaching Partner: Hunan Yizhong Ziguang Electric Technology Co., Ltd.*		
Patents and proprietary rights	*None*		
Important publications over the last 5 years	*A total of 6 recent publications:* *1. Wang Lifang, Liu Qingxue, Huang Yue, et al. Research and Practice on Curriculum Reform of Power System Analysis [J]. Electrical Technology, 2025, 26(7): 51-55.* *2. Wang Lifang, Liu Qingxue, Huang Yue, et al. Construction and Practice of Power System Analysis Teaching System Based on Curriculum Ideological and Political Concepts [J]. Education Development and Innovation, 2025, 2(29): 68-70.* *3. Wang Lifang, Qiu Jie, Huang Yue, et al. Simulation Study on Power Frequency Overvoltage and Its Suppression in Power Systems [C]. Ninth International Conference on Energy System, Electricity, and Power (ESEP 2024), 2025, doi: 10.1117/12.136322E .* *4. Wang Lifang, Liu Qingxue, Huang Yue, et al. Research on Graduation Requirements and Curriculum Setting of Power System Analysis Course in*		

	Higher Education [J]. Education Development and Innovation, 2025, 2(32): 82-84. *5. Wang Lifang, Zhao Dewan, Huang Yue, et al. Simulation Study on Short Circuit Faults in Power Systems Based on EMTP [C]. EPEE 2021, 2021, doi: 10.1088/1742-6596/2087/1/012079.* *6. Wang Lifang, Liu Ren, Huang Yue. Simulation Study on Transformer Inrush Current and Its Suppression [C]. Second International Conference on Mechatronics Technology and Intelligent Manufacturing, 2021, doi: 10.1088/1742-6596/2029/1/012010*		
Activities in specialist bodies over the last 5 years	*None*	*None*	*None*

Staff Handbook

Wang Wei

Name	*Wang Wei*				
Post	*Electrical Engineering and Automation / Associate Professor*				
Courses Taught	C Language Programming Principle and Application of Microprocessor Course Design of C Language Programming				
Academic career	*Initial academic appointment*		*Institution*		*Year*
	Doctorate (Instrument Science and Technology)		*Chongqing University*		*2007*
	Bachelor's Degree (Measurement and Control Technology and Instruments)		*Chongqing University*		*2002*
Employment	*Position*		*Employer*		*Period*
	Full-time Faculty		*Kunming University*		*2010.04-Present*
	Full-time Faculty		*Chongqing University*		*2007.07-2010.03*
Research and development projects over the last 5 years	*Name of project or research focus*	*Period*	*Approving authority*	*Personal role*	*Amount of financing (CNY)*
	Research on Efficient Deep Learning Methods Combined with Feature Engineering	*2022.12-2025.11*	*Yunnan Provincial Department of Science and Technology*	*Principal Investigator*	*100000*
Industry collaborations over the last 5 years	*Project title*		*Partners*		
	None				
Patents and proprietary rights	*Title*				*Year*
	A Method and Device for Multi-view Image Capture Face Recognition				*2017*
Important publications over the last 5 years	*1 academic paper has been published publicly in the past five years, including 1 as the first author, and 0 academic monograph. Representative works are as follows:* *1. Wei Wang, Weimin Chen, Dongxia Xu, Yu An. Diseased Plant Leaves Identification by Deep Transfer Learning. Frontiers in Artificial Intelligence and Applications, 2024, 382: 1019-1027. (EI: 20241916066677)*				
	Organisation		*Role*		*Period*

Activities in specialist bodies over the last 5 years	*None*

Staff Handbook

Yang Jiankun

Name	*Yang Jiankun*			
Post	*lecturer*			
Courses Taught	Probability Theory and Mathematical Statistics Mathematical Modeling and MATLAB Simulation			
Academic career	*Initial academic appointment* *undergraduate course*	*Institution* *Kunming University of Science and Technology*	*Year* *2014*	
	Master	*Kunming University of Science and Technology*	*2017*	
	Doctor of Technical Science	*Kunming University of Science and Technology*	*2025*	
Employment	*Position* *Secretary of the Youth League Committee*	*Employer* *Kunming University*	*Period* *2021-2023*	
	lecturer	*Kunming University*	*2021-Present*	
Research and development projects over the last 5 years	*Name of project or research focus*	*Period*	*Approving authority*	*Personal role*	*Amount of financing (CNY)*
	A Study on the Interactive Mechanism Between Work Transfer and the Relationship Between Commuting, Work, Life Behaviors, and Well-being	2023.11-2026.12	*Ministry of Education Humanities and Social Sciences Fund – Youth Fund*	*Manage*	*8*
	Research on the Measurement of Characteristics, Formation Mechanisms, and	2025.01-2028.12	*Yunnan Province Basic Research Program*	*Manage*	10

	Spillover Effects of Commuting Time Disruption Among Urban Residents		*General Project*		
	A Study on the Mechanism of How University Relocation Affects Teachers' Occupational Burnout from the Perspective of Behavior Perception Interaction	2024.11-2026.10	*Yunnan Provincial Education Science Planning Project: General Topic*	*Manage*	*2*
	Modeling Commuting Satisfaction and Travel Mode Selection Behavior from the Perspective of Commuting Time Disruption	2021.01-2022.01	*Yunnan Provincial Department of Education Teacher Scientific Research Fund*	*Manage*	*1*
Industry collaborations over the last 5 years	*Project title* *None*		*Partners* *None*		
Patents and proprietary rights	*Title* *None*			*Year* *None*	
Important publications over the last 5 years	*Over the past five years, 10 academic papers have been published, all as first authors, along with 0 academic monographs. The representative works include:* [1] JIANKUN YANG, MIN HE, MINGWEI HE*, et al. Investigating the associations of commuting behavior,perception, satisfaction, and subjective well-being: An analytical framework from the perspective of commuters' preferences and tolerance toward commuting time [J]. Journal of Transport & Health, 2025, 44: 102140. (SSCI) [2] JIANKUN YANG, MIN HE, MINGWEI HE*, et al. Exploring the Nonlinearity of Commute-Time Utility Considering Individual Ideal Preferences and Tolerance Thresholds: Case Study in Kunming[J]. Transportation Research Record, 2023(1): 1-15. (SCI/EI) [3] JIANKUN YANG, MIN HE, MINGWEI HE*. Nonlinear Influence of Commute Time Tolerance Threshold on Commute Mode Choice Based on the Semi-compensatory Model[J]. Scientific programming, 2022(4): 1-8. (SCI/EI) [4] JIANKUN YANG, YUHANG ZHANG, QIUYAN ZHAO, et al. Investigating the Association Between Perceived Risk Levels and Commuting Mode Shifts after the Lifting of the COVID-19 Pandemic Prevention and Control Policies[J]. Transportation Research Interdisciplinary Perspectives, 2024, 101085. (ESCI)				

<table>
<tr><td></td><td>[5] QIUYAN ZHAO, JIANKUN YANG*, XIAOXI WANG. Investigating commuters' working from home attitudes and its explanatory factors after the lifting of COVID-19 prevention and control policies[J]. Case Studies on Transport Policy, 2024, 101157. (ESCI)

[6] Yang Jiankun, He Mingwei*, He Min, et al. A study on the impact pathways of commuting satisfaction based on time segmentation: A case study of Kunming City [J]. Regional Research and Development, 2023,42(06):53–59. (CSCD/Peking University Core)

[7] Yang Jiankun, He Mingwei*. Research on the Mechanism of Commuting Satisfaction from the Perspective of Commuting Time Disruption: A Case Study of Kunming City [J]. Regional Research and Development, 2022,41(02):57–62. (CSCD/Peking University Core)

[8] Yang Jiankun, Xiong Jian, Xu Dongxia. Simulation study on vehicle lane-changing behavior recognition based on support vector machines [J]. Journal of Guizhou University (Natural Sciences Edition), 2020,37(05):120–124.

[9] JIANKUN YANG, MIAO WANG, WANG XIAOJING, et al. Analyzing the impact of the individual ideal and tolerable commute time on commuting satisfaction(C). CICTP 2022: Proceedings of the 22nd COTA International Conference of Transportation Professionals, 2022, 1577-1588. (EI Conference)

[10] Yang Jiankun. Review of Semi-Compensation Models for Travel Choice Decision-Making Behavior [C]. Proceedings of the World Transportation Engineering and Technology Forum (WTC2021).</td></tr>
<tr><td rowspan="2">Activities in specialist bodies over the last 5 years</td><td>Organisation Role Period</td></tr>
<tr><td>None None None</td></tr>
</table>

Staff Handbook

Yang Zuyuan

Name	*Yang Zuyuan*		
Post	*Electrical Engineering and Automation / Associate Professor*		
Courses Taught	Power Electronics Electrical Engineering Professional English AC/DC Variable Speed Control Systems		
Academic career	*Initial academic appointment*	*Institution*	*Year*
	Doctorate (Control Theory and Control Engineering)	*Chongqing University*	*2008*
	Master's Degree (Mechanical Design and Theory)	*Chongqing University*	*2002*
	Bachelor's degree (Mechanical Design and Manufacturing)	*Wuhan University of Hydraulic and Electric Engineering*	*1997*
Employment	*Position*	*Employer*	*Period*
	Full-time Faculty	*Kunming University*	*2012.03- Present*
	Full-time Faculty	*Chongqing University*	*2004.12-2011.12*
	Engineer	*Chongqing Electromechanical Design and Research Institute*	*2002.07-2004.02*
	Technician	*Yunnan Feiyun Shoes Co., Ltd*	*1997.7-1999.7*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*None*		
Patents and proprietary rights	*None*		
Important publications over the last 5 years	*None*		
Activities in specialist bodies over the last 5 years	*Organisation*	*Role*	*Period*
	None		

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Staff Handbook

Li Yangqing

Name	Li Yangqing				
Position	Electrical Engineering / Associate Professor				
Courses Taught	Electrical Machines Electrical Control and PLC Course Design of Electrical Control and PLC				
Educational Background	Degree or Qualification Awarded Master's Degree (Electronic Information) Bachelor's Degree (Physics)		Awarding Institution Yunnan Normal University Southwest Normal University		Year Obtained 2006 1992
Work Experience	Position Full-time Teacher		Institution Kunming University		Period of Employment Since September 2006
R&D Projects in the Past Five Years	Project Title	Start–End Time	Project Source	Role	Funding (10,000 RMB)
	Exploration and Practice of Research-Oriented Teaching Modes for the Course Electrical Machines and Electric Drives	2010.01-2012.12	Department of Education of Yunnan Province	Principal Investigator	2
	Teaching Reform of Digital Circuits and PLC Programming	2016.01-2019.12	Department of Education of Yunnan Province	Participant	2
	Video Courseware and Teaching	2016.04-2019.04	Kunming University	Participant	1

<table>
<tr><td rowspan="2"></td><td>Method Reform for Electrical Control and PLC</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Research and Practice of First-Class Course Construction for Power System Analysis</td><td>2022.11-2025.01</td><td>Department of Education of Yunnan Province</td><td>Participant</td><td>3</td></tr>
<tr><td>Industry–University–Research Cooperation in the Past Five Years</td><td colspan="5">None</td></tr>
<tr><td>Patents and Intellectual Property</td><td colspan="3">Name
A Current Transformer for 500 kV SF6 Gas-Insulated Switchgear.
A Mechanical–Electrical Interlocking Device</td><td colspan="2">Year Obtained
2019
2021</td></tr>
<tr><td>Representative Publications in the Past Five Years</td><td colspan="5">Representative academic publications publicly published in the past five years are as follows:
1. Research on Electrical Automation Technology and Its Applications [M]. Editor-in-Chief. Harbin Cartographic Publishing House, 2022.
2. Fundamentals of High Voltage Engineering [M]. First Associate Editor-in-Chief. Beihang University Press, 2024.</td></tr>
<tr><td rowspan="2">Part-Time Positions in Academic Organizations in the Past Five Years</td><td>Name of Academic Organization</td><td>Position</td><td colspan="3">Term of Service</td></tr>
<tr><td>None.</td><td></td><td colspan="3"></td></tr>
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Staff Handbook

Bie Yu

Name	*Bie Yu*			
Post	*Electrical Engineering and Automation /Professor*			
Courses Taught	Control Systems Modeling and Simulation Comprehensive Design			
Academic career	*Initial academic appointment*		*Institution*	*Year*
	Bachelor		*Kunming University of Science and Technology*	*2004*
	Master		*Kunming University of Science and Technology*	*2007*
	Ph.D.		*Yunnan Normal University*	*2018*
Employment	*Position*		*Employer*	*Period*
	Teaching assistant		*Kunming University of Science and Technology*	*2007-2009*
	Lecturer		*Kunming University of Science and Technology*	*2009-2019*
	Associate Professor		*Kunming University of Science and Technology*	*2019-2020*
	Faculty postdoctoral fellow		*Guangzhou University*	*2021-2023*
	Associate Professor		*Kunming University*	*2023-2025*
	Professor		*Kunming University*	*2025-now*
Research and development projects over the last 5 years	*Name of project or research focus*	*Period*	*Approving authority*	*Personal role*	*Amount of financing (CNY)*
	Rayleigh-Bénard Thermal Convection Evolution and Multiphysics Synergistic Regulation in Phase-Change Composite Thermal Management Systems for Traction Batteries	*2026.01-2029.12*	*National Natural Science Foundation of China Regional Project*	*Project Manager*	*31*

	RB Thermal Convection Evolution Modeling and Control Optimization for Traction Batteries Coupled Cooling Systems	*2025.03-2028.02*	*Yunnan Provincial Department of Science and Technology Basic Research Project*	*Project Manager*	*10*
	Multi-factor Synergistic Heat Transfer Enhancement Mechanisms and Optimization Models for Solar Phase Change Thermal Energy Storage Systems	*2024.09-2027.08*	*Yunnan Provincial Department of Science and Technology Basic Research Project*	*Project Manager*	*10*
	"One Map, Dual Cases, Tripartite Synergy": Curriculum Reform and Practice in Smart Manufacturing System Integration Technology	*2025.08-2027.08*	*Education Reform Project of Yunnan Provincial Department for Education*	*Project Manage*	*10*
	Heat Dissipation Characteristics of Power Batteries Regulated by Synergistic Heat Transfer of Phase Change Materials and Microchannels	*2024.06-2027.06*	*Talent introduction scientific research projects*	*Project Manage*	*15*
	Research on the Mechanism of Lubricant Viscosity Variation in Wind Turbine Gearboxes Considering Thermal Effects	*2020.06-2023.05*	*Yunnan Provincial Department of Science and Technology surface project*	*Project Manage*	*10*
	Investigation on the Photothermal Transport Characteristics of Solar Thermal Collection and Storage Systems Coupled with Non-	*2022.09-2024.06*	*Yunnan Provincial Key Laboratory of Rural Energy Engineerin*	*Project Manage*	*3*

	Imaging Concentrators		*g Open Fund*		
	Study on the Synergistic Enhancement Mechanisms and System Matching Characteristics of Integrated Solar Thermal Collection, Storage, and Release	*2019.06-2021.06*	*Yunnan Provincial Departmen t of Education Teacher Project*	*Project Manage*	*4*
	Hydration Salt Phase Change Concrete for Performance Fluctuation Mitigation in Solar-Assisted Heat Pump Radiant Floor Heating Systems	*2023/01-2026/12*	*National Natural Science Foundatio n of China*	*Key players (ranked second)*	*54*
Industry collaborations over the last 5 years	*Project title*		*Partners*		
	Design and Optimization of Internal Thermal Management Systems for Power Supply Equipment Series		*Xi'an Ruinuo Aviation Equipment Co., Ltd.*		
	Study on Physical Properties and Drying Characteristics of Natural Rubber		*Yunnan Liangong Technology Co., Ltd.*		
Patents and proprietary rights	*Title*			*Year*	
	A drying process and device for natural rubber with pretreatment			*2025*	
	A vacuum drying device with waste heat recovery			*2024*	
Important publications over the last 5 years	*In the past five years, more than 11 academic papers have been published, including 6 by the first author, and no academic monographs have been published yet. Representative works are as follows:* *1. Bie Y, Xu Z, Lei J, et al. Optical dual-optimization strategy for a solar collector integrated compound parabolic concentrator with large-gapped reflector and absorber. Renewable Energy, 2026, 256: 124175.* *2. Bie Y, Kuang S, Zhibo Xu, Fei Chen. Optical optimization of a novel congruent multi-sectioned compound parabolic concentrator[J]. Applied Thermal Engineering, 2025,277:127086* *3. Xu Z, Lei J, Bie Y*, et al. Effect of vibration on the thermal performance of a hybrid thermal management system with liquid cooling and phase change material[J]. International Journal of Thermal Sciences, 2025, 215:109995*				

<table>
<tr><td></td><td>

4. Bie Y, Tang Y, Liu W, et al. Optimization of a Finned Multi-Tube Latent Heat Storage System using New Structure Evaluation Indexes[J]. Energy. 2024, 312: 133240.
5. Yang J, Zhang Z, Yang L, Hong M, Bie Y*, Coupling effect between waste heat recovery and government subsidy with supply chain as a pivot[J]. Sustainable Cities and Society. 2023, 99: 104897
6. Bie Y, Shi K, Chen F. Optical and Thermal Performance-Cost Evaluation for Different Segmentation of a Novel Equal-length Multi-section Compound Parabolic Concentrator[J]. Energy, 283 (2023): 128483
7. Bie Y, Xu Z B, Li Z X, et al. Effects of molten salt multi-thermophysical properties on performance of the latent heat thermal energy storage system and synergetic optimization investigation [J]. Solar Energy Materials and Solar Cells, 255 (2023): 112277
8. Xu Z B, Bie Y*, Chen F, et al. Photo-thermal design and analysis of a Novel CPC Coupled Solar Air Evacuated Tube Collector[J]. Applied Thermal Engineering, 2023, 228: 120541.
9. Liu W Y, Bie Y*, Xu T. Heat transfer enhancement of latent heat thermal energy storage in solar heating system: A state-of-the-art review [J]. Journal of Energy storage, 46(2022):103727

</td></tr>
<tr><td>Activities in specialist bodies over the last 5 years</td><td>
<table>
<tr><td>Organisation</td><td>Role</td><td>Period</td></tr>
<tr><td>Kunming Internal Combustion Engine Society</td><td>director</td><td>From Nov. 1st 2025</td></tr>
<tr><td>Special Committee of Yunnan Green Energy Industry Association</td><td>member</td><td>From Oct. 1st 2023</td></tr>
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Liang Shibin

Name	***Liang Shibin***			
Post	Electrical Engineering and Automation / Professor-level Engineer			
Courses Taught	Power System Automation Graduation Internship			
Academic career	*Initial academic appointment*		*Institution*	*Year*
	Master's Degree (lectrical Engineering)		Kunming University of Science and Technology	2008
	Bachelor 's degree (Electromagnetic Measurement and Instrumentation)		*Chongqing University*	1997
Employment	*Position*	*Employer*		*Period*
	Teacher	Kunming University		2025.01-Present
	Technologist	Yunnan Electric Power Test&Research Institute(Group)Co.,Ltd.		2012.3-2025.01
	Electrical Engineer	Yunnan Electric Power Test&Research Institute(Group)Co.,Ltd.		1997.07-2012.03
Research and development projects over the last 5 years	*Object name*	*Period*	*Source*	*Role* / *Funding (million)*
	Digital and Intelligent Research on Grid-connected Performance Test and Analysis of High-power Converter Equipment	2025.07-2028.06	Yunnan Provincial Department of Science and Technology	key players / 325
	Technical Innovation Talent Training Program	2020.01-2024.12	Yunnan Provincial Department of Science and Technology	Project host / 12
	Object name			Cooperative unit

Industry collaborations over the last 5 years	Research and Application of Suspended Field-mill DC Electric Field Sensing System	Yunnan Electric Power Test&Research Institute(Group)Co.,Ltd.
	Research on Inverse Perception Method for Mechanical Condition of Electric Isolating Switch	Yunnan Electric Power Test&Research Institute(Group)Co.,Ltd.
	Research on Non-contact Weak Current Detection Technology Based on Magnetoelectric Composite Devices	Yunnan Electric Power Test&Research Institute(Group)Co.,Ltd.

Patents and proprietary rights	*Name*	*Year*
	A Non-contact Magnetoelectric Composite Current Sensor with Magnetic Flux Concentration and Magnetic Shielding	2025
	A Spacer Suitable for UGV Installation and Removal and Its Installation/Removal Mechanism	2025
	A Temperature Visualization Structure and Leakage Circuit Breaker	2023

Important publications over the last 5 years	*None*

Activities in specialist bodies over the last 5 years	*Academic organizations*	*Position*	*Period*
	National Standardization Technical Committee on Environmental Technology for Electrotechnical Products in Plateau of China	Committeeman	2024.12-2029.12
	Member of Yunnan Provincial Standardization Technical Committee for Electric Power Equipment	Committeeman	2025.03-2030.03

Staff Handbook

Wang Lifang

Name	*Wang Lifang*				
Post	*Electrical Engineering and Automation / Professor*				
Courses Taught	Power System Analysis High Voltage Technology Comprehensive Design of Electrical Engineering Drawing				
Academic career	*Initial academic appointment*		*Institution*		*Year*
	Master's Degree, Biomedical Engineering (Electronic Direction)		*Yunnan University*		2008
	Bachelor's Degree, Electrical Engineering and Automation		*Kunming University of Science and Technology*		2001
Employment	*Position*		*Employer*		*Period*
	Professional Leader of Electrical Engineering		*Kunming University*		*2009.11-Present*
	Full-time Faculty		*Yunnan Vocational College of Mechanical and Electrical Technology*		2005.08–2009.11
	Full-time Faculty		*Guangxi University of Technology*		2001.07–2005.07
Research and development projects over the last 5 years	*Name of project or research focus*	*Period*	*Approving authority*	*Personal role*	*Amount of financing (CNY)*
	Research and Practice on the Construction of First-class Course of Power System Analysis	*2023.9-2025.8*	*Yunnan Provincial Department of Education Research Project on Undergraduate Education and Teaching Reform*	*Principal Investigator*	*20000*
	University-level Cultivation Project for First-class Course of High	*2023.9-2024.8*	*Kunming University*	*Principal Investigator*	*20000*

	Voltage Technology				
	Kunming University-level Cultivation Project for the First-class Course of Power System Analysis	*2022.9-2023.8*	Kunming University	*Principal Investigator*	*20000*
	University-level Cultivation Project for Ideological and Political Education in the Course of Power System Analysis	*2023.9-2024.8*	*Kunming University*	*Principal Investigator*	*2000*
	Kunming University-level Cultivation Project for Ideological and Political Education in the Course of High Voltage Technology	*2024.9-2025.8*	*Kunming University*	*Principal Investigator*	*10000*
	Research and Practice on the Construction of First-class Course of Power System Analysis	*2023.9-2024.8*	*Kunming University*	*Principal Investigator*	*10000*
	Cultivation of Innovative Talents by Applying Virtual Experiment Teaching Method in the Course of Electrical Parts of Power Plants	*2023.9-2025.8*	*Industry-University Cooperation and Collaborative Education Project of the Ministry of Education*	*Participant*	*50000*
Industry collaborations over the last 5 years	*Project title*			*Partners*	
	None				
Patents and proprietary rights	*Title*			*Year*	
	Invention Patent: Automatic Closed-loop Test System for Power Remote Terminal Unit			2023	
	Design Patent: Substation Inspection Robot			*2024*	

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	Utility Model Patent: Solar Photovoltaic Panel with Lifting Cleaning Device *2022*
Important publications over the last 5 years	*More than 30 academic papers have been published publicly in the past five years, including 17 as the first author, and 1 academic monograph. Representative works are as follows:* *1. Lifang Wang，Qingxue Liu，Yue Huang. Simulation Research on Overvoltage Generated by No-Load Transformer Switching-off,ICEEPS 2025.* *2. Lifang Wang，Qingxue Liu，Yue Huang. Simulation study of power frequency overvoltage and its suppression in power system, ESEP2024.* *3. Lifang Wang，Qingxue Liu，Yue Huang.Simulation study of transient stability of power system under fault conditions,ESEP 2023.* *4. Lifang Wang，Qingxue Liu，Yue Huang. Joint Simulation of High Voltage Line Fault Based on ATPdraw and MATLAB,ICEIPS 2023.* *5. Lifang Wang，Qingxue Liu. Simulation study on power system short circuit fault based on EMTP ,EPEE2021.* *6. Lifang Wang，Qingxue Liu，Yue Huang. Simulation study on transformer inrush current and its suppression,ICMTIM 2021.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period*
	None

Staff Handbook

Chen Weimin

Name	Chen Weimin		
Post	Electrical Engineering and Automation / Associate Professor		
Courses Taught	Analog Electronic Technology Digital Electronic Technology Detection and Conversion Technology		
Academic / career	Degree or Qualification Awarded	Institution	Year
	Doctorate (Instrument Science and Technology)	Chongqing University	2007
	Master's Degree (Information Acquisition and Processing)	Chongqing University	2001
	Bachelor's Degree (Optoelectronic Precision Machinery)	Chongqing University	1993
Employment	Position	Institution	Period
	Full-time Teacher	Kunming University	2020.11–Present
	Vice Dean	College of Mechanical and Electrical Engineering	2010.08–2020.11
Research and development projects over the last 5 years	None		
Industry–University–Research	Project Title		Partners
	None		

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Cooperation in the Past Five Years	
Patents and proprietary rights	None
Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	Name of Academic Organization Position Term of Service None

Staff Handbook

Liu Qingxue

Name	Liu Qingxue				
Post	Electrical Engineering and Automation / Professor				
Courses Taught	Electrical Parts of Power Plants Principles of Automatic Control Comprehensive Electrical Engineering Training				
Academic / career	Degree or Qualification Awarded		Institution	Year	
	Doctorate (Electrical Engineering)		Tshwane University of Technology	2019	
	Master's Degree (Control Theory and Control Engineering)			2005	
	Bachelor's Degree (Automation Engineering)		Xi'an University of Technology	2002	
			Naval Aviation University		
Employment	Position		Institution	Period	
	Full-time Teacher		Kunming University	2020.12–Present	
	Full-time Teacher		Shandong University of Science and Technology	2005.07–2020.11	
Research and development projects over the last 5 years	Project Title	Start–End Time	Project Source	Personal Role	Funding (10,000 RMB)
	Research on Personalized Rehabilitation Device Collaborative Customization Based on Transfer Learning and Process Optimization in a Cloud Manufacturing Environment	2026.6–2029.5	Basic Research Special Project (General Project), Yunnan Provincial Department of Science and Technology	Principal Investigator	10
	Research on Substation Inspection Robot Target Detection Based on Machine Vision and Intelligent Convolution	2024.1–2025.12	Science and Technology Project of Yunnan Provincial Department of Human Resources and Social Security	Principal Investigator	10

	Research on Human Behavior Recognition and Modeling in Haptic Feedback Intelligent Control Systems	2023.1–2023.12 2023.9–2026.8	Yunnan Provincial Department of Science and Technology Project Yunnan Provincial Department of Science and Technology Project	Principal Investigator Principal Investigator	10 10
	Research on Haptic Feedback Intelligent Control Theory	2021.1–2022.12	Yunnan Provincial Department of Science and Technology Project	Principal Investigator	20
	Planning Research of Hybrid Renewable Energy Systems	2022.3–2023.2	Yunnan Provincial Department of Education	Principal Investigator	2
	Cultivation of Innovative Talents by Applying Virtual Experiment Teaching Method in the Course of Electrical Parts of Power Plants	2023.9–2025.8	Industry–University Cooperation and Collaborative Education Project of the Ministry of Education	Principal Investigator	5

Industry–University–Research Cooperation in the Past Five Years	Project Title	Partners
	Research on Microgrid Harmonic Mitigation Strategy and Control System Development Based on Coordinated Control	Qingdao Dongfang Zhuoyue Electric Technology Co., Ltd.
	Compressor Piston Running-in Control System Development	Kunming Kunke Measurement and Control Technology Co., Ltd.
	Multi-energy Complementary Microgrid Reactive Power Compensation Control System Development	Qingdao Dongfang Zhuoyue Electric Technology Co., Ltd.

Patents and proprietary rights	Title	Year
	1. Invention Patent: Method and System for Substation Foreign Object Intrusion Detection Based on Improved YOLOv11 Model	2025 2026
	2. Invention Patent: Intelligent Multi-fault Detection System for Charging Piles Based on Improved YOLOv11	2026 2023

	3. Invention Patent: Infrared Thermal Imaging Power Line Circuit Breaker Fault Diagnosis Method and System Based on YOLOv13	2026
	4. Invention Patent: Automatic Closed-loop Test System for Power Remote Terminal Unit	2024
	5. Utility Model Patent: Magnetic Feedback Circuit Suitable for Converters	2022
	6. Utility Model Patent: Outdoor Electricity Meter Box	2024
	7. Utility Model Patent: Solar Photovoltaic Panel with Lifting Cleaning Device	2024
	8. Design Patent: Robot (Substation Inspection)	2024
	9. Software Copyright: Big-Data-Based Image Processing System	2023
	10. Software Copyright: AI Artificial Intelligence Computer Vision and Image Processing System	2024
	11. Software Copyright: Optimization Management Algorithm System for Anti-theft Mobile Payment Fast Charging Pile	2024
	12. Software Copyright: Transformer Inspection Robot System Based on Machine Vision and Intelligent Convolution	2021
	13. Software Copyright: Algorithm Optimization System for Electrical Engineering Equipment	
Important publications over the last 5 years	Lifang Wang，Qingxue Liu，Yue Huang. Simulation Research on Overvoltage Generated by No-Load Transformer Switching-off,ICEEPS 2025. Lifang Wang，Qingxue Liu，Yue Huang. Simulation study of power frequency overvoltage and its suppression in power system, ESEP2024. Lifang Wang，Qingxue Liu，Yue Huang.Simulation study of transient stability of power system under fault conditions,ESEP 2023. Lifang Wang，Qingxue Liu，Yue Huang. Joint Simulation of High Voltage Line Fault Based on ATPdraw and MATLAB,ICEIPS 2023. Lifang Wang，Qingxue Liu. Simulation study on power system short circuit fault based on EMTP ,EPEE2021. Lifang Wang，Qingxue Liu，Yue Huang. Simulation study on transformer inrush current and its suppression,ICMTIM 2021.	
Activities in specialist bodies over the last 5 years	Name of Academic Organization　　Position　　Term of Service None	

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Staff Handbook

Li Yunjuan

Name	Li Yunjuan			
Post	Electrical Engineering / Associate Professor			
Courses Taught	Principles of Automatic Control Functions of a Complex Variable and Integral Transforms Professional Orientation Internship			
Academic / career	Degree or Qualification Awarded	Institution	Year	
	Doctorate (Mechanical Design and Theory)	Wuhan University	2018	
	Master's Degree (Control Theory and Control Engineering)	Wuhan University	2012	
	Bachelor's Degree (Industrial Electrical Automation)	Kunming University of Science and Technology	1993	
Employment	Position	Institution	Period	
	Full-time Teacher	Kunming University	1993.07–Present	
Research and development projects over the last 5 years	Project Title	Start–End Time	Project Source	Personal Role	Funding (10,000 RMB)
	None				
Industry–University–Research Cooperation in the Past Five Years	Project Title		Partners		
	None				
Patents and proprietary rights	Title			Year	

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Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	Name of Academic Organization Position Term of Service None

Staff Handbook

An Yu

Name	An Yu		
Post	Senior Lab Technician		
Courses Taught	Engineering Training		
Academic / career	Degree or Qualification Awarded Bachelor of Engineering	Institution Zhengzhou University of Light Industry	Year 2000
Employment	Position Full-time Teacher	Institution Kunming University	Period 2000–Present
Research and development projects over the last 5 years	Project Title None	Start–End Time	Project Source / Personal Role / Funding
Industry–University–Research Cooperation in the Past Five Years	Project Title None	Partners	
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	None		
Activities in specialist bodies over the last 5 years	Name of Academic Organization None	Position	Term of Service

Staff Handbook

Dou Wei

Name	Dou Wei		
Post	Lecturer		
Courses Taught	Discrete Mathematics		
Academic / career	Degree or Qualification Awarded Doctor	Institution Kunming University of Science and Technology	Year 2019
Employment	Position Full-time Teacher	Institution Kunming University	Period 2019–Present
Research and development projects over the last 5 years	Project Title None	Start–End Time	Project Source / Personal Role / Funding
Industry–University–Research Cooperation in the Past Five Years	Project Title None	Partners	
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	None		
Activities in specialist bodies over the last 5 years	Name of Academic Organization None	Position	Term of Service