IEEE

MAIC 2025

2025年机电一体化、自动化与智能控制国际学术会议

2025 International Conference on Mechatronics, Automation and Intelligent Control

December 19-21, 2025 Zhanjiang, China

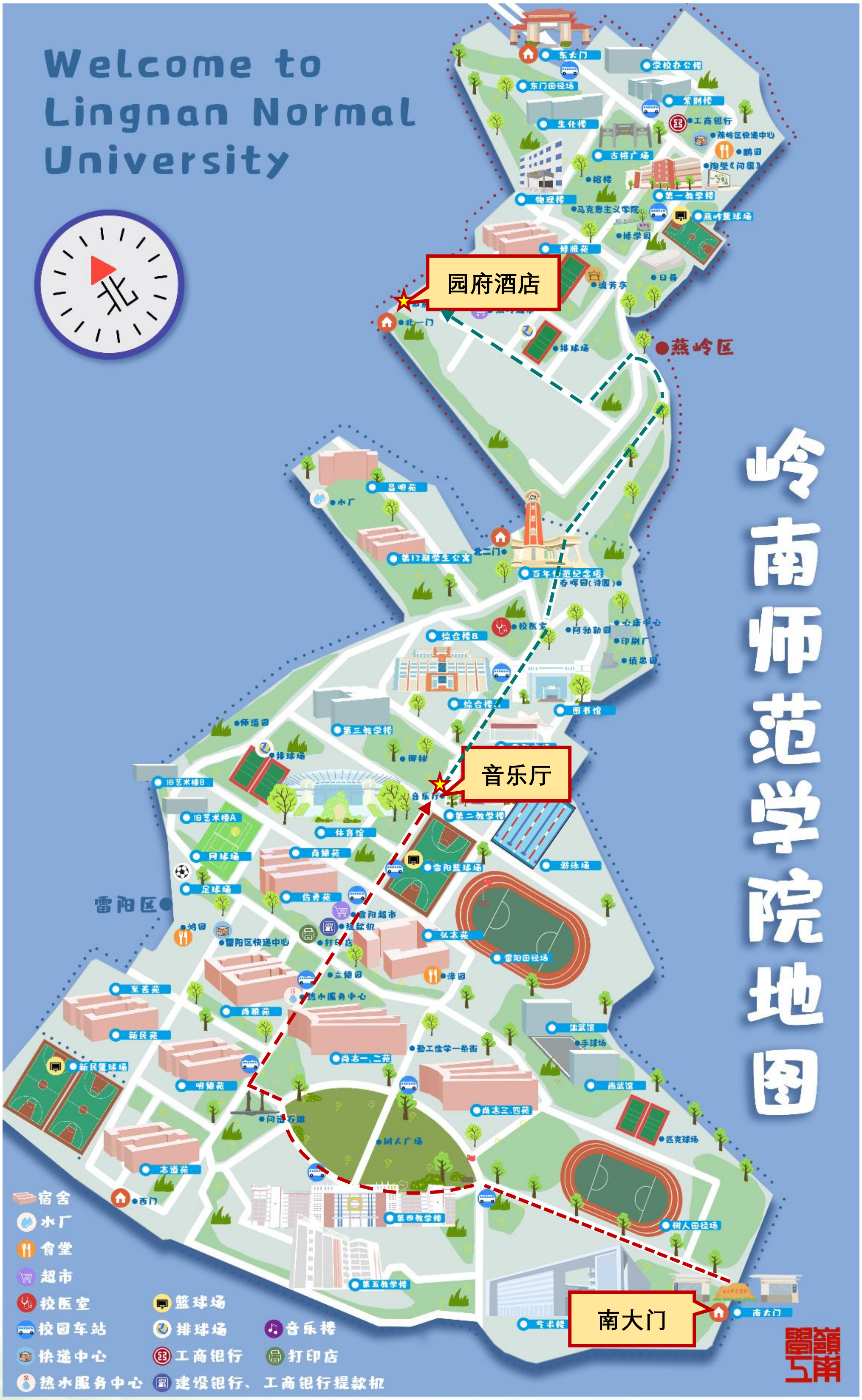
CONFERENCE MANUAL

○ 主办单位：岭南师范学院

○ 协办单位：广东技术师范大学

○ 支持单位：Intelligence & Robotics、哈尔滨工业大学、华南理工大学、西南大学、广东工业大学、大连大学
哈尔滨理工大学、湖北汽车工业学院、东莞理工学院、广东海洋大学、广州大学、大连交通大学
福建农林大学、黑龙江科技大学、广东石油化工学院、湛江科技学院、韶关学院、肇庆学院

CONTENT



➢ Direction | 指引

步行/方式：导航至岭南师范学院（寸金校区）南大门，沿红色路线到达会场

Conference Introduction

5th
MAIC 2025
2025 International Conference on
Mechatronics, Automation
and Intelligent Control
December 19-21, 2025 | Zhanjiang, China

The 2025 International Conference on Mechatronics, Automation and Intelligent Control (MAIC 2025) will be held in Zhanjiang, China, from December 19 to 21, 2025. This conference aims to explore current prominent issues, disseminate research findings, advance related research and applications, and promote disciplinary development and talent cultivation. We cordially invite experts and scholars in relevant fields to participate in this conference. MAIC 2025 is dedicated to uniting distinguished scholars and industry experts in Mechatronics, Automation, and Intelligent Control under a unified platform. The conference's primary objectives are to advance research and development activities within these fields while providing global researchers, developers, engineers, students, and practitioners with opportunities for scientific exchange.

2025年机电一体化、自动化与智能控制国际学术会议（MAIC 2025）将于2025年12月19日至21日在中国湛江举行。本次会议旨在探讨当前突出的问题，传播研究成果，推动相关研究与应用的发展，促进学科建设以及人才培养。我们诚挚邀请相关领域的专家学者参加本次会议。 MAIC 2025致力于将机电一体化、自动化与智能控制领域的杰出学者和行业专家汇聚于一个统一的平台。本次会议的主要目标是促进这些领域的研究与开发活动，同时为全球的研究人员、开发者、工程师、学生以及从业者提供科学信息交流的机会。

Please scan the QR code to view the photos of the Conference

扫码查看会议精彩集锦

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- Prof. Huijun Gao, Harbin Institute of Technology, China
- Prof. Maria Pia Fanti, Polytechnic University of Bari, Italy
- Prof. Wanquan Liu, Sun Yat-sen University, China
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- Assoc. Prof. Xiangli Meng, Lingnan Normal University, China
- Assoc. Prof. Zhixin Zhao, Lingnan Normal University, China
- Dr. Hang Su, Dongguan University of Technology, China
- Dr. Shifeng Chen, Lingnan Normal University, China

Conference Agenda-会议议程

Date: December 20, 2025 (Sat.) 09:00-17:30 (GMT+8)
Location: Concert Hall of the Lingnan Normal University (Cunjin Campus)
地点：岭南师范学院（寸金校区）音乐厅

Time | 时间	Activity | 活动
Chair: Prof. Bo Chen, Lingnan Normal University, China **主持人：陈波，教授，岭南师范学院**	
09:00-09:05	**Opening Ceremony | 开幕式**
09:05-09:10	**Welcome Address 1 | 唐宇，教授，岭南师范学院副校长** Prof. Yu Tang, Lingnan Normal University, China
09:10-09:15	**Welcome Address 2 | 湛江市科学技术局局长致辞** Address by the Director of Zhanjiang Science and Technology Bureau
09:15-09:20	**Group Photo | 大会合影**
Chair: Prof. Keyou You, Tsinghua University, China **主持人：游科友，教授，清华大学**	
09:20-10:00	**Keynote Speech 1 | Witold Pedrycz，教授，阿尔伯塔大学** Prof. Witold Pedrycz, University of Alberta, Canada **Speech Title: New Directions in Fuzzy Cognitive Maps: Design and Interpretability**
10:00-10:10	**Coffee Break & Poster Presentation | 茶歇&海报展示**
10:10-10:40	**Keynote Speech 2 | 高会军，教授，哈尔滨工业大学** Prof. Huijun Gao, Harbin Institute of Technology, China **Speech Title: Intelligent Micromanipulation System for Organoid Regeneration**
10:40-11:10	**Keynote Speech 3 | 陈伟能，教授，华南理工大学** Prof. Wei-Neng Chen, South China University of Technology, China **Speech Title: Distributed Swarm Intelligence Consensus Optimization: From Rule-Driven to Learning-Empowered**
Chair: Prof. Wei-Neng Chen, South China University of Technology, China **主持人：陈伟能，教授，华南理工大学**	
11:10-11:40	**Keynote Speech 4 | 游科友，教授，清华大学** Prof. Keyou You, Tsinghua University, China **Speech Title: Accelerating Model Predictive Control：Quantifiable Constraint Removal and Neural Network Approximation**

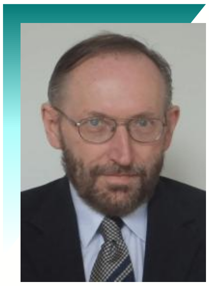
Conference Agenda-会议议程

Time | 时间	Activity | 活动
11:40-12:10	**Keynote Speech 5 | David Bassir，教授，东莞理工学院** Prof. David Bassir, Dongguan University of Technology, China **Speech Title: Contribution of Digital Twin Concept in Smart Manufacturing and Quality Control**
12:10-14:00	**Lunch Break | 午间休息**
Chair: Prof. Zumin Wang, Dalian University, China **主持人：汪祖民，教授，大连大学**	
14:00-14:15	**Invited Speech 1 | 岑健，教授，广东技术师范大学** Prof. Jian Cen, Guangdong Polytechnic Normal University, China **Speech Title: Research on precise regulation of dynamic optimization and energy conservation in building energy flow**
14:15-14:30	**Invited Speech 2 | 付东洋，教授，广东海洋大学** Prof. Dongyang Fu, Guangdong Ocean University, China **Speech Title: Remote Sensing Extraction of Ocean Targets and Monitoring of Environmental Changes**
14:30-14:45	**Invited Speech 3 | 陈宇峰，教授，湖北汽车工业学院** Prof. Yufeng Chen, Hubei University of Automotive Technology, China **Speech Title: A Message Transmission Mechanism in VANETs Considering the Implicit Acknowledgment and Adaptive Beacon Intervals**
14:45-15:00	**Invited Speech 4 | 苏勋文，教授，黑龙江科技大学** Prof. Xunwen Su, Heilongjiang University of Science and Technology, China **Speech Title: Research on Equivalent Modeling and Control of Wind Farms**
15:00-15:20	**Coffee Break | 茶歇**
Chair: Prof. Jian Cen, Guangdong Polytechnic Normal University, China **主持人：岑健，教授，广东技术师范大学**	
15:20-15:35	**Invited Speech 5 | 陈波，教授，岭南师范学院** Prof. Bo Chen, Lingnan Normal University, China **Speech Title: An Adaptive Obstacle Avoidance Method for UAV Formations Based on Affine Transformation**
15:35-15:50	**Invited Speech 6 | 周东鹏，博士，东莞理工学院** Dr. Dongpeng Zhou, Dongguan University of Technology, China **Speech Title: Leader-following Consensus of Linear Multi-agent Systems via Distributed Impulsive Control**

Conference Agenda-会议议程

Time | 时间	Activity | 活动
15:50-16:05	**Invited Speech 7 | 宋海鹰，教授，广东技术师范大学** Prof. Haiying Song, Guangdong Polytechnic Normal University, China Speech Title: **Intelligent Sensing and Control for Farmland Soil Quality Status and Pest Smart Management System**
	Chair: Prof. Shuwen Wang, Lingnan Normal University, China **主持人：王树文，教授，岭南师范学院**
16:05-16:20	**Oral Presentation 1 | 孙展鹏，大连交通大学** Zhanpeng Sun, Dalian Jiaotong University Speech Title: **An Improved DWA Path Planning Algorithm Based on Net Goal Projection Efficiency**
16:20-16:35	**Oral Presentation 2 | 林土翔，达姆施塔特工业大学** Tuxiang Lin, Technical University of Darmstadt Speech Title: **A Lightweight Stacked Ensemble Model for Efficient Ransomware Detection in Resource-Constrained IoT Environments**
16:35-16:50	**Oral Presentation 3 | Zakir Ullah, Shanghai Jiao Tong University** Speech Title: **On-Device Transformer for Stride-Synchronous Ground Reaction Force Estimation from Wearable**
16:50-17:05	**Oral Presentation 4 | 王奕霖，辽宁工程技术大学电气与控制工程学院** Yilin Wang, School of Electrical and Control Engineering Liaoning Technical University Speech Title: **Research on Multi-strategy Improved Goose Optimization Algorithm and Its Application**
	Chair: Bingni Jia, Lingnan Normal University, China **主持人：贾冰妮，岭南师范学院**
17:05-17:30	**Award Ceremony & Closing Ceremony | 颁奖仪式&闭幕式**

Keynote Speech



Prof. Witold Pedrycz

University of Alberta, Canada
Witold Pedrycz，教授，阿尔伯塔大学
IEEE终身会士、波兰科学院外籍院士、加拿大皇家学会会士

Biography: Witold Pedrycz (IEEE Life Fellow) is Professor in the Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada. He is also with the Systems Research Institute of the Polish Academy of Sciences, Warsaw, Poland. Dr. Pedrycz is a foreign member of the Polish Academy of Sciences and a Fellow of the Royal Society of Canada. He is a recipient of several awards including Norbert Wiener award from the IEEE Systems, Man, and Cybernetics Society, IEEE Canada Computer Engineering Medal, a Cajastur Prize for Soft Computing from the European Centre for Soft Computing, a Killam Prize, a Fuzzy Pioneer Award from the IEEE Computational Intelligence Society, and Meritorious Service Award from the IEEE Systems Man and Cybernetics Society.

Speech Title: **New Directions in Fuzzy Cognitive Maps: Design and Interpretability**

Abstract: Fuzzy cognitive maps are interpretable graph models of dynamic systems that have enjoyed a great deal of interest in the Machine Learning community. In this talk, we discuss new development in the design, analysis, and interpretation of cognitive maps and fuzzy cognitive maps. A crucial way of interfacing symbolic and numeric processing carried out for these constructs is emphasized. We identify a role of encoding and decoding and elaborate on new learning trends realized through a collection of information granules.

Recent architectural developments including maps of higher order, distributed maps, hierarchical and tensorized maps are discussed. Two modes of learning (direct and indirect) are investigated. In the framework of cognitive maps, we present analysis of time series, both one- and multidimensional data. A multi-objective development of maps addressing their interpretability is addressed.

Keynote Speech

Prof. Huijun Gao

Harbin Institute of Technology, China
高会军，教授，哈尔滨工业大学
国家级高层次人才

Biography: Huijun Gao is a Professor and a doctoral supervisor at Harbin Institute of Technology. He is a National High-Level Talent, a Recipient of the National Science Found for Distinguished Young Scholars, a Foreign Member of the Academia Europaea, and an IEEE Fellow. He served as a Member of Standing Committee of All-China Youth Federation and Vice-Chairman of Heilongjiang Provincial Youth Federation. His research focuses on intelligent control and instrumentation. He has been awarded two National Natural Science Awards (Second Prizes, ranking first and fifth), one Special Prize and five First Prizes at the provincial/ministerial level or national society level (all ranking first). He was also awarded China Patent Gold Award, Tan Kah Kee Young Scientist Award, China Youth Science and Technology Award, Xplorer Prize, National Advanced Worker, and the China Youth May Fourth Medal. He serves/served as Vice President of the Chinese Association of Automation, President of the IEEE Industrial Electronics Society and Editor-in-Chief of the IEEE/ASME Transactions on Mechatronics. He has received the IEEE Norbert Wiener Award and the IEEE Dr.-Ing. Eugene Mittelmann Achievement Award.

Speech Title: **Intelligent Micromanipulation System for Organoid Regeneration**

Abstract: Organoids are cell clusters cultured ex vivo that maintain the structure and function of tissue organs. They have found significant applications in the field of biomedicine and are a hot topic in international frontiers. This report introduces intelligent micromanipulation system and methods for organoid regeneration. To address challenges like low-dimensional state sensing, complex regeneration mechanisms, and insufficient cell manipulation precision, our research is conducted on the multi-dimensional sensing of organoid regeneration, micromanipulation of organoid cells, and modeling and control of organoid growth processes based on micromanipulation and intelligent control technologies. An intelligent micromanipulation system for organoid regeneration has been established to promote the important applications of organoids in pathological research, drug development, individualized diagnosis and treatment, and other biomedical fields. The report concludes by introducing the emerging frontier of organoid intelligence, exploring the future development and prospects of carbon-based intelligence represented by organoid intelligence.

Keynote Speech

Prof. Wei-Neng Chen

South China University of Technology, China
陈伟能，教授，华南理工大学
计算机科学与工程学院副院长

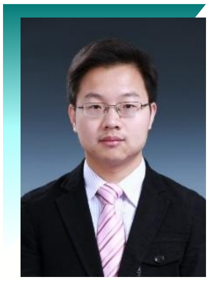
Biography: Wei-Neng Chen (Senior Member, IEEE) received the bachelor’ s and Ph.D. degrees in computer science from Sun Yat-sen University, Guangzhou, China, in 2006 and 2012, respectively. He is currently a Full Professor with the School of Computer Science and Engineering, South China University of Technology, Guangzhou. He has co-authored over 200 international journal and conference papers, including more than 100 articles published in IEEE TRANSACTIONS journals. His current research interests include computational intelligence, swarm intelligence, multi-agent systems and their applications. Prof. Chen is a Committee Member of the IEEE CIS Emerging Topics Task Force. He is the Vice Chair of the IEEE Guangzhou Section and the Chair of the IEEE SMC Society Guangzhou Chapter. He serves as an Associate Editor for IEEE TPAMI, IEEE TEVC, IEEE TNNLS and Complex & Intelligent Systems.

Speech Title: **Distributed Swarm Intelligence Consensus Optimization: From Rule-Driven to Learning-Empowered**

Abstract: Swarm intelligence is a crucial direction in the development of the new generation of artificial intelligence. The consensus optimization of distributed swarm systems is a fundamental and core issue faced by multi-agent and swarm intelligence systems, with broad applications in cutting-edge fields such as smart cities, smart grids, and unmanned systems. However, when confronted with complex optimization scenarios commonly found in practical applications, such as non-convex, black-box, and high-dimensional problems, traditional gradient descent-based distributed consensus optimization methods exhibit significant limitations in both theoretical assumptions and performance.

To address this, this report aims to explore a new solution path: integrating the inherent parallel and distributed search characteristics of swarm intelligence optimization methods with the consensus theory of distributed multi-agent systems. The goal is to construct a "guidable, scalable, and trustworthy" methodological framework for distributed swarm intelligence consensus optimization. This report will introduce a three-layer mechanism for swarm intelligence distributed consensus evolution—rule and dynamics-based consensus evolutionary optimization, learning-driven consensus evolutionary optimization, and large model-empowered consensus evolutionary optimization.

Keynote Speech



Prof. Keyou You

Tsinghua University, China
游科友，教授，清华大学
国家级高层次人才

Biography: Keyou You received the B.S. degree in Statistical Science from Sun Yat-sen University, Guangzhou, China, in 2007 and the Ph.D. degree in Electrical and Electronic Engineering from Nanyang Technological University (NTU), Singapore, in 2012. After briefly working as a Research Fellow at NTU, he joined Tsinghua University in Beijing, China where he is now a Full Professor in the Department of Automation. He held visiting positions at Politecnico di Torino, Hong Kong University of Science and Technology, University of Melbourne and etc. Prof. You' s research interests focus on the intersections between control, optimization and learning as well as their applications in autonomous systems. He currently serves as an Associate Editor for international journals such as Automatica and IEEE Transactions on Control of Network Systems, and leads major research projects including the National Natural Science Foundation of China (Distinguished Young Scholars and Key Program) and the National Key R&D Program "Next-Generation Artificial Intelligence" . He has received the First Prize of CAA Natural Science Award, the ACA Temasek Young Educator Award, and Guan Zhao-Zhi Best Paper Award, among others. He has also contributed to three first prizes awarded by Beijing Municipality, the Ministry of Education, and the Ministry of Natural Resources. His supervised doctoral students have received honors including the IFAC Young Author Award, the CAA Outstanding Doctoral Dissertation Award, and the National Postdoctoral Innovative Talent Support Program.

Speech Title: **Accelerating Model Predictive Control：Quantifiable Constraint Removal and Neural Network Approximation**

Abstract: In real-time applications such as embedded systems and robotics, the online computation of Model Predictive Control (MPC) is often limited by solving multiparametric quadratic programming (mpQP) problems. Existing methods handle all constraints, incurring high computational cost, while many constraints are actually redundant and their removal does not change the optimal solution. Using historically solved mpQP data, we propose a safe and performance-quantifiable strategy for redundant constraint removal, thereby substantially reducing the scale of the quadratic programming problems to be solved. In particular, we prove that the number of constraints reduces to zero for the constrained linear stabilization problem via MPC. Furthermore, a ReLU neural network approximation is adopted, providing guaranteed performance with bounded complexity. Both theoretical analysis and experiments confirm that the method maintains control performance while achieving orders-of-magnitude speedup, offering an advanced solution for resource-constrained platforms.

Keynote Speech

Prof. David Bassir

Dongguan University of Technology, China
David Bassir，教授，东莞理工学院
国家级高层次人才

Biography: Professor David Bassir is Distinguish professor (Changjiang scholar Program) at Dongguan University of Technology at the Sino French Institute. He is also Head of Smart Structural Health Monitoring and Control Lab (SSHMC). and Expert at European Commission For Research Funds. He is also President of the Sino- French Association for Science and technology. Before joining DGUT, He was Professor in France at University or Technology UTBM and Also Senior researcher at ENS- Paris Saclay University. And before that he was, dean at the University of Lorraine (France), Attaché for Science and Technology at the French Embassy (China), General Director of Research at the ESTP (Paris) and Space Craft engineer at different space agencies such as Arianespace and Astrium Group. He has published more than 167 papers in Sci journals, books, indexed conference proceedings and patent. He supervised over 17 Phd and 34 Masters Students. He contributed to several research projects in France, in Europe and in China. His main research activities are based on Structural optimization, Composites, Multiscale modelling, Smart buildings and Advanced prediction using artificial intelligence. He is also Editor-in-Chief of the Int. journal IJSMDO (EI) and also Scientific editors is few international journals.

Speech Title: **Contribution of Digital Twin Concept in Smart Manufacturing and Quality Control**

Abstract: The rapid evolution of smart manufacturing is transforming traditional production systems through the integration of advanced digital technologies. Among these innovations, the Digital Twin (DT) has emerged as a key enabler for intelligent decision-making, real-time monitoring, and advanced quality control. This presentation explores the contribution of Digital Twin models to modern manufacturing environments, emphasizing their role in enhancing operational efficiency, product reliability, and process transparency. A Digital Twin provides a dynamic virtual representation of physical assets, allowing manufacturers to simulate, predict, and optimize performance across the entire product lifecycle. By leveraging data from sensors, IoT devices, and machine-learning algorithms, DT models enable continuous monitoring and early detection of deviations, thereby reducing downtime and improving quality assurance.

The talk highlights how Digital Twins support predictive maintenance, adaptive process control, and scenario-based simulations that guide informed decision-making. Their ability to integrate heterogeneous data sources facilitates better traceability, real-time defect identification, and optimization of production parameters. Case studies are presented to demonstrate measurable improvements in productivity, cost efficiency, and product consistency. Overall, this presentation underscores the transformative potential of Digital Twin technology as a cornerstone of smart manufacturing, offering a robust framework for achieving higher levels of automation, precision, and quality in Industry 4.0 environments.

Invited Speech

Prof. Jian Cen

Guangdong Polytechnic Normal University, China
岑健，教授，广东技术师范大学
自动化学院院长

Biography: Jian Cen, She is a Professor of Guangdong Normal University of Technology, doctoral supervisor, master's degree and doctor's degree from South China University of Technology, visiting scholar in InWent, Germany, director of Guangdong Intelligent Building Energy Conservation and Control Engineering Technology Research Center, director of Guangzhou Intelligent Building Equipment Information Integration and Control Key Laboratory, head of Guangdong Intelligent Building Equipment Information Integration and Control Research and Innovation Team, and winner of high-level talent project in Guangdong universities. She has presided over more than 20 key scientific and technological application R&D projects in Guangdong Province, major scientific and technological special projects in Guangdong Province and natural science foundation projects in Guangdong Province, published more than 50 high-level papers and owned more than 20 authorized invention patents. The first finisher won 2 second prizes of Guangdong Science and Technology Progress Award and 1 first prize of Guangdong Education and Teaching Achievement Award; She is also the executive director of Guangdong Automation Society, the vice chairman of Guangzhou Automation Society, the vice chairman of Guangzhou Chemical and Chemical Society, and the vice chairman of the Internet of Things Professional Committee of Guangdong Computer Society. Main research interests: intelligent perception and control of multi-modal information, fault-tolerant control and fault diagnosis of complex systems.

Speech Title: **Research on precise regulation of dynamic optimization and energy conservation in building energy flow**

Abstract: Addressing practical challenges in energy conservation and consumption reduction for large-scale buildings, this research tackles the optimization of cooling load allocation and scheduling. Central air conditioning systems present significant challenges for energy-saving optimization control due to their nonlinear, highly delayed, and strongly coupled characteristics. This paper focuses on establishing precise deep learning-based prediction models for cooling demand and collaborative optimization control through multi-agent reinforcement learning. By seamlessly integrating prediction and control, the approach enhances the energy efficiency of central air conditioning systems, achieves energy savings in large buildings, and ultimately improves overall energy utilization efficiency.

Invited Speech

Prof. Dongyang Fu

Guangdong Ocean University, China
付东洋，教授，广东海洋大学
电子与信息工程学院院长

Biography: Dongyang Fu , PhD in Physical Oceanography from the Chinese Academy of Sciences, Postdoctoral Fellow at the State Key Laboratory of Satellite Ocean Environment Dynamics, Second Institute of Oceanography, Ministry of Natural Resources, Professor and PhD Supervisor at Guangdong Ocean University, Dean of the College of Electronic and Information Engineering, Director of the Ocean Physics Branch of the Chinese Society of Oceanography, and Director of the Guangdong Society of Remote Sensing and Geographic Information System. He is mainly engaged in research on marine remote sensing and remote sensing image processing. In recent years, he has presided over and participated in more than 20 projects including the National Natural Science Foundation of China, National Marine Public Welfare Special Projects, Key Special Projects of the 14th Five-Year Plan, Guangdong Provincial Science and Technology Plan Projects, and Key Special Projects of the Department of Education of Guangdong Province. He has published more than 100 papers in journals such as 《IEEE Transactions on Systems, Man, and Cybernetics: Systems》、《Applied Soft Computing》《Journal of Geophysical Research》、《Acta Oceanologica Sinica》、《Journal of Oceanology and Limnology》 and Acta Oceanologica Sinica (Chinese Edition).

Speech Title: **Remote Sensing Extraction of Ocean Targets and Monitoring of Environmental Changes**

Abstract: Based on deep learning and spectral feature optimization algorithms, remote sensing extraction of maritime targets has been carried out, such as remote sensing extraction of marine ranching areas, ocean eddy and islands, which has improved the accuracy of target extraction. Research on monitoring of rip current disasters in coastal zones, typhoon disasters and high-pond aquaculture areas has been conducted, and the first-grade assessment of rip current disaster levels along the coastline of South China has been completed; research on water color remote sensing inversion and change monitoring in offshore ranching areas has been carried out; research on remote sensing monitoring of sensitive reefs in the South China Sea and shallow water depth inversion has been conducted, providing important technical support for the security of reefs in the South China Sea and monitoring of marine environmental changes.

Invited Speech

Prof. Yufeng Chen

Hubei University of Automotive Technology, China
陈宇峰，教授，湖北汽车工业学院
智能网联汽车学院院长、CCF杰出会员

Biography: Yufeng Chen is a Professor in the Hubei University of Automotive Technology, as well as the Dean of School of Intelligent Connected Vehicle. She is a distinguished member of CCF, a member of Professional Committee of Pervasive Computing and a member of Professional Committee of Data Communication and Network of CCF, and a member of the Executive Committee of CCF Wuhan Chapter. Her research interests are mobile computing, network security, intelligent transportation. She was in charge of about 20 national and provincial level research projects. She published about 120 papers, among which more than 50 papers are indexed by SCI/EI/CPCI-S. In addition, she owns 13 authorized invention patents. She obtained about 10 awards, include the second prize of Hubei Provincial Science and Technology Progress Award as the first completer.

Speech Title: **A Message Transmission Mechanism in VANETs Considering the Implicit Acknowledgment and Adaptive Beacon Intervals**

Abstract: To enhance the reliability and efficiency of data transmission in urban Vehicular Ad-hoc Networks (VANETs), a data message transmission mechanism considering the implicit acknowledgment and adaptive beacon intervals is proposed. This approach addresses network congestion caused by traditional acknowledgment mechanisms and the inaccurate link assessment of existing implicit schemes in dynamic environments. By monitoring neighbor beacons and utilizing an Active Communication Node List (ACNL), the mechanism assesses underlying link quality without the overhead of explicit Acknowledgement (ACK) packets. To cope with dynamic network density, the mechanism employs an adaptive beacon interval, shortening it in sparse networks to ensure sufficient samples. In dense networks, a Link Fluctuation Coefficient (LFC) is introduced to quantify link stability. The mechanism further integrates metrics like Link Maintenance Time (LMT) into a validated weighted function for precise, forward-looking selection of the next-hop node. Simulation results demonstrate that, compared to improved Expected Transmission Count (ETX) and Bi-directional Stable Communication (BDSC) protocols, the proposed scheme increases the average packet delivery rate by 10.16 and 12.22 percentage points, respectively, and boosts average throughput by 4.05 and 3.93 times, respectively. The scheme also shows improved performance in forwarding hops, delay, and message collisions.

Invited Speech

Prof. Xunwen Su

Heilongjiang University of Science and Technology, China
苏勋文，教授，黑龙江科技大学
电气与控制工程学院院长

Biography: Su Xunwen, Professor, Postdoctoral Fellow, National Visiting Scholar, Master Supervisor, and Dean of the School of Electrical and Control Engineering at Heilongjiang University of Science and Technology. He serves as the leader of the national-level teaching team "Practical Electrical Engineering" and the head of the first-level discipline of electrical engineering. He has led 10 longitudinal research projects, including the National Natural Science Foundation of China (Young and General Programs) and the China Postdoctoral Science Foundation. His research focuses on renewable energy grid integration and multi-terminal flexible HVDC transmission. With 6 authorized invention patents, 4 technology transfer achievements, and over 40 SCI/EI-indexed papers, one of which was selected for the F5000 Academic Paper List, he has received the Heilongjiang Provincial Science and Technology Award (Third Prize) and the Heilongjiang Provincial University Science and Technology Award (Third Prize). Additionally, he contributed to winning the State Grid Corporation of China Science and Technology Progress Award (Third Prize). He serves as Deputy Editor-in-Chief of *Coal Mine Machinery*, Editorial Board Member of *Coal Mine Electromechanics*, and reviewer for journals such as *IEEE Access*, *IET Power Electronics*, *International Transactions on Electrical Energy Systems*, and *Automation of Electric Power Systems*. He is also the Secretary of the China Engineering Education Professional Accreditation Committee, a member of the Power System Modeling and Simulation Academic Group under the Power System Committee of the China Electrotechnical Society, a council member of the Fifth Informationization Council of the China Coal Industry Association, a skilled expert and standing committee member of the "Thousand Talents Think Tank" in the Shanxi Coal Industry Association, and an expert in the Heilongjiang Provincial Coal Production Safety Administration's expert database.

Speech Title: **Research on Equivalent Modeling and Control of Wind Farms**

Abstract: This report introduces a modeling method for wind turbines based on measured data and a maximum power point tracking control mechanism for doubly fed wind turbines considering environmental factors. Equivalent modeling methods for wind farms under wind speed fluctuations, fault conditions, and sub synchronous oscillations were provided. Finally, the equivalent modeling method for wind farms under sub synchronous oscillations was applied to the equivalent modeling of photovoltaic power plants, and the applicability and limitations of various methods were analyzed.

Invited Speech

Prof. Bo Chen

Lingnan Normal University, China
陈波，教授，岭南师范学院
电子与电气工程学院院长、CCF高级会员、CICC高级会员

Biography: Bo Chen is a professor, is the dean of the School of Electronics and Electrical Engineering at Lingnan Normal University. He is a senior member of CCF and CICC. His main research directions are cluster control and complex networks. He has presided over more than 30 national-level projects, including 8 projects under the National 863 Program and 16 projects under the General Armament Pre-research Program. He has published nearly 100 academic papers, with over 50 indexed by the three major databases. He has been granted over 50 intellectual property rights, including 31 invention patents and 3 patent transfers. He has won one National Science and Technology Progress Award, one First Prize of National Defense Science and Technology Progress Award, two First Prizes of Liaoning Province Technology Invention Award, and many other scientific research awards. He has been selected as an outstanding expert of Liaoning Province, a specially-appointed professor of Liaoning Province, and a talent of the first hundred level of Liaoning Province.

Speech Title: **An Adaptive Obstacle Avoidance Method for UAV Formations Based on Affine Transformation**

Abstract: To address the issue that existing formation obstacle avoidance methods are difficult to meet the requirements of adaptive adjustment of formation structure, an adaptive obstacle avoidance method for unmanned aerial vehicle (UAV) formation based on affine transformation is proposed. Firstly, a UAV formation obstacle avoidance strategy is designed, considering the entire formation as a deformable geometric body. Affine transformation parameters are calculated based on different types of obstacles in the environment to achieve adaptive adjustment of the formation. Secondly, a hierarchical leader-follower cooperative control architecture is proposed, where a small number of leaders guide the formation transformation. Thirdly, by combining the stress matrix and artificial potential field method, a follower control law is designed, enabling followers to automatically complete the corresponding affine transformation according to the leader formation and avoid internal collisions during the formation transformation process. Finally, a UAV formation obstacle avoidance simulation experiment is designed. The experiment shows that the proposed method maintains the stability of the formation structure while demonstrating more prominent obstacle avoidance capabilities and environmental adaptability.

Invited Speech

Dr. Dongpeng Zhou

Dongguan University of Technology, China
周东鹏，博士，东莞理工学院

Biography: Zhou Dongpeng, born in Jiujiang, Jiangxi Province. He received his Ph.D. from Guangxi University in June 2025. His current research directions and interests are: cooperative control of multi-agent systems and its applications. During his master's and doctoral studies, he has published more than 10 papers in high-level domestic and international journals, such as IEEE Transactions on Automatic Control and IEEE Transactions on Cybernetics. He serves as an active reviewer for some journals including IEEE Transactions on Automatic Control and IEEE Transactions on Cybernetics.

Speech Title: **Leader-following Consensus of Linear Multi-agent Systems via Distributed Impulsive Control**

Abstract: This work introduces a novel design approach to address the leader-following consensus problem in linear multi-agent systems (MASs) through distributed impulsive control. First, robust stability criteria are established for a class of linear impulsive systems with parametric input matrix. These criteria are then applied to the design of the distributed impulsive controller. The proposed design approach decouples the design of the impulsive control gains from the detailed graph properties, making it applicable to a class of communication networks. Furthermore, the state feedback results are extended to the output feedback case by constructing a distributed impulsive observer-based controller. In both scenarios, it is demonstrated that the novel impulsive controller/observer developed at the individual agent level can also be utilized to achieve leader-following consensus for a class of linear MASs, provided that the relationship between the dynamics of the individual agents and the graph properties satisfies a certain condition.

Invited Speech

Prof. Haiying Song

Guangdong Polytechnic Normal University, China
宋海鹰，教授，广东技术师范大学
自动化学院副院长

Biography: Visiting Scholar at The University of Hong Kong, Guangzhou Agricultural Science and Technology Commissioner, Expert at the Guangdong-Hong Kong-Macao Greater Bay Area (Foshan) National Outstanding Engineers Innovation Institute for Advanced Manufacturing, and Key Member of the Guangzhou Key Laboratory of Intelligent Building Equipment Information Integration and Control. He has long been engaged in research on modeling and optimization of complex systems as well as robotic system control. In recent years, he has presided over and completed one Guangdong Provincial Natural Science Foundation project and two Guangzhou Science and Technology Planning projects. He has published over 20 papers in authoritative domestic and international journals and holds three authorized international invention patents.

Speech Title: **Intelligent Sensing and Control for Farmland Soil Quality Status and Pest Smart Management System**

Abstract: To enhance the intelligence level of agricultural production in China, a soil quality status intelligent sensing & control and pest smart management system based on lightweight deep learning models and knowledge reasoning models has been designed and implemented. The system adopts a cloud edge architecture, in which the end devices deployed in the field include integrated intelligent sensors and smart monitoring cameras deployed with YOLO lightweight model. The integrated intelligent sensors collect key soil quality data such as soil temperature, humidity, pH value, and nitrogen, phosphorus, and potassium content in real time, while the smart cameras autonomously monitor crop pests through YOLO lightweight model. The above data information is uploaded to the IoT cloud platform through the edge side intelligent gateway, and the soil quality control strategy and pest control plan are determined by the knowledge graph based knowledge inference model in the cloud, and visualized on the UI interface. Through on-site testing in agriculture, the system can stably and accurately monitor and control soil quality status and pest infestations in real-time, and provide strong technical support for the implementation of precision agriculture through the linkage of water and fertilizer integrated machines and the collaboration of plant protection drones.

Organizational Structure

Sponsor-主办单位

嶺南師範學院
LINGNAN NORMAL UNIVERSITY

Co-organizer-协办单位

廣東技術師範大學
Guangdong Polytechnic Normal University

Supporters-支持单位

Intelligence & Robotics、哈尔滨工业大学
华南理工大学、西南大学、广东工业大学
大连大学、哈尔滨理工大学、湖北汽车工业学院
东莞理工学院、广东海洋大学、广州大学
大连交通大学、福建农林大学、黑龙江科技大学
广东石油化工学院、湛江科技学院
韶关学院、肇庆学院

Organizational Structure

Sponsor-主办单位

岭南师范学院
LINGNAN NORMAL UNIVERSITY

岭南师范学院是一所具有百年师范教育积淀的广东省属公办高校，坐落在中国大陆最南端的美丽港城湛江市。学校历史源远流长，前身可追溯到1636年（明朝崇祯九年）在雷州府城创办的雷阳书院，1903年，书院改制为雷阳中学堂；1904年，开设简易师范科，标志着师范教育正式起步。此后，学校历经雷州中学校、广东省立第十中学等发展阶段，1935 年成立广东省立雷州师范学校，1954年迁至现址，1978年升格为雷州师范专科学校，1991年改为湛江师范学院，2014 年更名为岭南师范学院，并于 2024 年成功获批硕士学位授予权，开启了办学发展的全新篇章。

办学治校屡获殊荣。在百余年的师范教育历程中，学校肩负兴学育人的办学使命，培养了大批优秀教师、教育工作者和社会应用人才，为粤西地区乃至广东省的教育文化事业和经济社会发展做出了应有贡献。2000年，学校是全国第一所通过教育部本科教学工作合格评估的师范院校，2007年在教育部本科教学工作水平评估中获得优秀等级，2016年列入广东省首批普通本科转型试点高校、省市共建高校和广东省大学生创新创业教育示范校，2017年被推选为广东省特殊教育教师发展联盟理事长单位，2018年纳入广东省高等教育 “冲一流、补短板、强特色”提升计划建设高校名单，2023年发起成立全国海岛教育发展与乡村振兴联盟，成为南方海洋科学与工程广东省实验室（湛江）（简称“湛江湾实验室”）共建单位。学校先后获得“全国精神文明建设工作先进单位” “全国群众体育工作先进单位” “全国绿化先进集体” “全国内部审计先进集体” “教育部依法治校示范校” “教育部大学英语教学改革示范校” “广东省师德建设先进单位”和“广东省文明校园”等荣誉称号。

师资队伍结构良好。现有教职员工2300余人，其中高级职称教师580多名，博士600多名，博士生导师、硕士生导师100多名，双师双能型教师800多名。1人入选教育部“新世纪优秀人才支持计划”；1人获“珠江学者”青年学者，3人获“广东特支计划”青年拔尖人才；4人入选全球前2%顶尖科学家榜单；150人入选广东省“千百十工程”培养对象，近100人获授国务院政府特殊津贴、全国“五一劳动奖章”、全国优秀教师、省级教学名师和南粤优秀教师等称号；48人被遴选为广东省“扬帆计划”人才；9人被遴选为广东省高等学校优秀青年教师培养对象；聘有一批国内外知名专家学者为客座教授和兼职教授。

Organizational Structure

学科专业体系完备。设有32个二级学院（含挂靠）。拥有硕士学位点3个（教育、生物医药、社会工作）。建有省级重点学科6个（教育学、化学、课程与教学论、高分子化学与物理、汉语言文字学、材料物理与化学）、省“冲补强”重点建设学科3个（教育学、化学、材料科学与工程），2个省重点学科经考核获“优秀”等次。现有本科专业79个，涵盖经济学、法学、教育学、文学、史学、理学、工学、农学、管理学和艺术学等十大学科门类，师范专业涵盖基础教育、职业教育、学前教育和特殊教育，形成了门类齐全、培养培训一体化的完备的教师教育体系。8个专业通过教育部师范类专业二级认证。1个专业（计算机科学与技术）通过IEET工程与科技教育认证。拥有国家级特色专业2个（汉语言文学和化学）、国家级一流本科专业建设点2个，省级特色（重点）专业14个、省级一流本科专业建设点14个。学校面向31个省区招生，全日制在校本科生、研究生近3.5万人。

科学研究成效显著。建有广东省特殊儿童发展与教育重点实验室等省级科研平台39个以及湛江市科研平台12个。设有基础教育高质量发展研究院、红树林研究院、教育数字化转型研究中心、岭南文化研究院、中白哲学文化研究中心、湛江市社会工作研究院、低空经济研究中心等校内研究院（中心）15个，其他校级研究所等平台84个。近五年来，获批各级各类纵向科研项目1100余项，其中国家级项目56项，省部级项目350项；签订横向项目360余项，经费5300多万元；获授权专利近500件，其中发明专利授权300多件，成果转移转化51件；获省部级及以上科研奖励及全国行业学位协会奖励22项，其中广东省哲学社会科学优秀成果奖一等奖2项，二等奖5项。

办学条件日臻完善。校园占地面积2580亩（包括寸金校区、湖光校区和椹川校区等3个校区），建筑面积近84万平方米，教学科研仪器设备总值超过3亿元。图书馆拥有纸质藏书355万册，中外文纸质现期刊400多种，各类电子文献数据库60多个，电子图书320万册，电子期刊4万余种、140万册。获批“广东省创建国家教师教育创新实验区”。获批工信部专精特新产业学院1个（智能电气专精特新产业学院）、省级产业学院5个（智能电气现代产业学院、预制菜产业学院、教育数字化产业学院、丰学数字经管与智慧供应链现代产业学院、智能制造产业学院）。建有国家级基地2个（全国重点建设职业教育师资培养培训基地、全国社会工作专业人才培养基地）、省级师培基地4个和省级中小学教师发展中心1个。建有省级教学平台14个。

人才培养质量优良。落实立德树人根本任务，适应国家新时代教育高质量发展和广东省教育现代化的要求，培养具有高尚的职业道德，丰厚的人文、科学与艺术素养，厚实的学科专业基础，较强的实践能力，德智体美劳全面发展的高素质应用型人才。近年来，学生在中国国际大学生创新大赛、“挑战杯”以及学术科技、师范生技能、体育竞技、外语口语、艺术表演和社会实践等竞赛活动中屡获殊荣。2019年，4名校友分别获“全国模范教师”“全国优秀教师”称号。毕业生考研录取率突破12%，位居省内同类高校前列；毕业生扎根粤西，挺进珠三角，深入京、津、沪、宁、疆、藏等地就业，被《人民日报》等国内主流媒体誉为“援藏良驹”“粤西过江龙”。

Organizational Structure

对外合作交流广泛。1998年开始招收外国留学生，已培养培训长短期留学生1000余人。同美国、英国、白俄罗斯、日本、韩国等国家以及港澳台地区近130所境外高校、教育机构建立了紧密的合作关系，共同开展学术交流、专业合作、教育培训、教师互聘和学生跨文化学习交流活动，48名学生通过校际项目被世界名校录取。与爱尔兰大西洋理工大学合作举办烹饪与营养教育本科专业；与亚洲潜水联合会合作举办“亚洲潜水学院”；与白俄罗斯国立体育大学合作举办以中国武术和体育康复保健为特色的孔子课堂，被评为全球“先进孔子课堂”并升格为“孔子学院”；与白俄罗斯国家科学院哲学研究院联合成立“中白哲学-文化研究中心”；加入中泰高等教育合作联盟、中国—白俄罗斯大学联盟、中爱中外合作办学联盟、中阿高校10+10合作计划、粤港澳大湾区孔子学院合作大学联盟和粤港澳高校联盟等。与全国工商联水产业商会等合作举办“水产国际商务学院”；与广东东岛新能源股份有限公司联合成立“东岛清洁能源材料产业学院”；与紫光集团新华三技术有限公司、广东伟泽智能科技有限公司联合成立“智慧教育产业学院”。充分发挥在人才培养、科技研究、智力支持等方面的优势，与地方政府部门、企业、科研机构、驻地部队等紧密协同，在教育、科技、经济、文化、法律与政策研究等方面开展全方位合作，积极拓展办学资源，不断提升学校对地方经济社会发展的贡献率。

在全面建成社会主义现代化强国、实现第二个百年奋斗目标，以中国式现代化全面推进中华民族伟大复兴的伟大进程中，学校坚持以习近平新时代中国特色社会主义思想为指导，深刻领悟“两个确立”的决定性意义，增强“四个意识”、坚定“四个自信”、做到“两个维护”，全面贯彻党的教育方针，坚持社会主义办学方向，落实立德树人根本任务，落实建设教育强国、教育强省战略部署，落实省委“1310”具体部署，大力实施“12355”发展战略，着力做强“新师范”、做优“新工科”、做特“新文科”，持续提升办学水平和教育质量，构建高质量教育体系，努力早日建成特色鲜明的高水平师范大学，为广东在推进中国式现代化建设中走在前列贡献更大力量。

（2025年9月更新）

Organizational Structure

Co-organizer-协办单位

广东技术师范大学
Guangdong Polytechnic Normal University

广东技术师范大学是一所具有硕士学位授予权的省属普通高等学校，创办于1957年，前身为广东民族学院，首任校长是老一辈革命家罗明同志。2002年更名为广东技术师范学院，2002年、2005年，原广东省机械学校、原广东省经济管理干部学院和广东省财贸管理干部学院先后并入，2018年更名为广东技术师范大学。学校现有东校区、西校区、北校区、白云校区、河源校区等5个校区。

学校是博士学位授予单位立项建设高校、广东省“冲一流、补短板、强特色”特色高校提升计划建设学校。学校现有经济学、法学、教育学、文学、理学、工学、管理学、艺术学等8大主要学科门类，民族学、职业技术教育学、中国现当代文学、控制科学与工程、机械工程等5个省级重点学科，中国现当代文学、通信与信息系统、模式识别与智能系统等3个珠江学者设岗学科，教育学、民族学、新闻传播学、控制科学与工程等4个一级学科硕士学位授权点，教育、电子信息、会计、机械、能源动力、新闻与传播等6个硕士专业学位授权点。学校是“职业学校教师在职攻读硕士专业学位”“少数民族高层次骨干人才计划”“退役大学生士兵计划”研究生招生培养单位和教育硕士职业技术教育领域专业学位研究生(简称“职教专硕”)教育试点单位，有21个广东省研究生联合培养基地。

学校坚持立德树人，致力于培养高素质职业教育师资和应用型高级专门人才。学校现设有24个二级教学单位，全日制普通在校生37000多人；开设有72个本科专业，其中理工类专业36个，文科类专业36个；师范类专业32个；建有50多个国家级和省级一流本科专业、综合改革试点专业、卓越人才培养计划专业和应用型示范专业;建设70余门国家级和省级一流本科课程、在线开放课程、课程思政示范课程、教师教育课程。学校构建了高素质职教师资与应用型人才的学科专业培养体系，不断创新人才培养模式，持续深化产教融合，深入开展创新创业教育，与地方政府、行业企业等开展协同创新战略合作项目，与知名企业共建国家级和省级大学生实践教学基地264个。近三年来，学生在“互联网+”“挑战杯”系列竞赛、数学建模竞赛等国内外高水平学科竞赛中屡获大奖，共获国家级奖励400多项、省级奖励900多项。就业率连年保持在同类高校前列，获评教育部“全国毕业生就业典型经验高校”，被广东省人民政府授予“广东省就业先进工作单位”“广东省创新创业示范校”“广东省依法治校示范校”等荣誉称号。

Organizational Structure

学校拥有一支学术水平高、爱岗敬业、结构合理的师资队伍。教师队伍中，现有正副高职称教师494人，具有博士学位631人，有双聘院士、党的十八大和十九大代表、全国政协委员、国家科技进步奖获得者、中国专利优秀奖获得者、国家自然科学基金评审专家，有全国优秀教师、巾帼发明家优秀奖获得者、教育部新世纪优秀人才、全国“高校思想政治理论课教学能手”、全国“2019年宣传思想文化青年英才”、全国“高校思想政治理论课教师年度影响力提名人物”、全国高校辅导员年度人物、全国“最美高校辅导员”、广东省杰出青年基金获得者、广东省青年珠江学者、广东省特支计划青年文化英才、科技创新青年拔尖人才、广东省“扬帆计划”人才、广东省教学名师、广东省劳动模范、广东省高校思想政治理论课名教师、广东省南粤优秀教师(南粤教坛新秀)、南粤优秀教育工作者、广东省高校"千百十工程”省级培养对象、广东省高校优秀青年教师培养对象等高层次人才。

学校拥有一批实力较强的科研平台。学校教学科研仪器设备总值逾3.5亿元，建设有广东工业实训中心，建有1个广东省重点实验室（广东省知识产权大数据重点实验室）、3个省级智库（职业教育发展研究中心、民族发展研究中心、中华民族共同体研究院），5个广州市重点实验室、2个广州市人文社科重点研究基地、13个广东省工程技术研究中心、1个国际合作基地，13个广东省教育厅科研平台、10个广东省教育厅科研团队。此外，学校还与佛山市顺德区人民政府共建了顺德现代职业教育研究院，与河源市人民政府共建了河源研究院。近三年来，学校获得国家自然科学和国家社科基金共45项（自然科学30项，人文社科15项），获得省部级以上科研成果奖励11项（自然科学8项，人文社科3项）。

学校突出特色发展。学校是职业教育研究和职教师资培养培训的重镇，先后被国家教育部、人力资源社会保障部.财政部、省教育厅选定为“全国重点建设职教师资培养培训基地”“国家技能型紧缺人才培养培训院校”“国家级专业技术人员继续教育基地”“国家民委职业教育师资培训中心”“广东省职业技术教育协同创新发展中心””广东省高技能人才实训基地”“广东省职业院校教师教学发展中心”等。学校是粤港澳大湾区职业教育教师发展联盟、广东省高等职业技术教育研究会、广东职教师资培养培训联盟、中德合作职教师资培养培训联盟理事长单位、广东省产教融合促进会会长单位。学校充分发挥培养培训职教师资母机作用，深化“面向职教、服务职教、引领职教、特色发展”办学定位，成为广东职业教育的龙头，办学影响力不断提升。学校充分挖掘民族教育和学科资源，促进民族艺术、民族体育与管理学、经济学、法学交叉融合，曾两度获评“全国民族团结进步模范集体”，获评广东省民宗委第二批广东省民族团结进步教育基地，彰显了学校民族教育的优势和特色。

办学六十多年来，学校虽数易其名，却不改初心，秉承“厚德博学、唯实求新”校训精神，坚持“面向职教、服务职教、引领职教、特色发展”办学定位，以培养高素质“工匠之师”为使命担当，努力创建中国特色世界水平技术师范大学

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