

The Sixteenth International Workshop on Information Technology and Control Applications

Yichang, China, 24-27 October, 2025

Conference Program



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Organizing Institutes

China University of Geosciences

Beijing Institution of Technology, China

Tokyo University of Technology, Japan

Hosts

China University of Geosciences
China Three Gorges University

Co-Hosts

Advanced Control and Intelligent Automation for Complex Systems

Overseas Expertise Introduction Center for Discipline Innovation

Hubei Key Laboratory of Advanced Control and Intelligent Automation

for Complex Systems

Engineering Research Center of Intelligent Technology for Geoexploration, Ministry of Education

Hubei Engineering Research Center of Intelligent Geological Equipment

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ITCA 2025 Program at a Glance

Oct. 24 (Friday)	Conference Registration	
Oct. 25 (Saturday)	Conference in Crowne Plaza Yichang R&F	
8:30 ~ 9:00	Opening Ceremony	
9:00 ~ 9:20	Group Photo	
9:20 ~ 9:55	Plenary Lecture: Wearable Biosensors and Volatile Biomarker Imaging System: Toward Real-Time, Non-Invasive Monitoring of Human Health	
9:55 ~ 10:30	Plenary Lecture: Inverse Optimal Control from Expert Demonstrations	
10:30 ~ 10:50	Tea Break	
10:50 ~ 11:25	Plenary Lecture: When Is A Nonlinear System Semiglobally Asymptotically Stabilizable by Sampled-Data Feedback?	
11:25 ~ 12:00	Plenary Lecture: Intelligent Modeling of Carbon Efficiency in the Sintering Process	
12:00 ~ 14:00	Lunch	
14:00 ~ 15:45	Session 1:Robotics	
14:00 ~ 15:45	Session 2:Optimization & Control	
14:00 ~ 15:45	Session 3:Machine Learning	
15:45 ~ 16:05	Tea Break	
16:00 ~ 18:05	Session 4:Sustainable Engineering	
16:00 ~ 18:05	Session 5:Image, Acoustic, Speech & Signal Processing	
16:00 ~ 18:05	Session 6:Intelligent Control and Distributed Systems	
18:30 ~ 19:00	Closing Ceremony	
19:00 ~ 21:00	Banquet	

Oct. 26 (Sunday) to Oct. 27 (Monday) Research and study activity

ITCA 2025 Program (Oct.25, Saturday)

08:30 ~ 09:00 Opening Ceremony Crowne Hall, 3F

Chairperson: Jundong WU

 $09:00\sim09:20 \qquad \qquad Group\ Photo$

09:20 ~ 10:30 Plenary Lecture

Chairperson: Hiroaki KUROKAWA

 $09:20 \sim 09:55$

Wearable Biosensors and Volatile Biomarker Imaging System: Toward Real-Time, Non-Invasive Monitoring of

Crowne Hall, 3F

Human Health

Takahiro ARAKAWA

Chairperson: Luefeng CHEN

 $09:55 \sim 10:30$

Inverse Optimal Control from Expert Demonstrations

Chengpu YU

10:30 ~ 10:50 Tea Break

10:50 ~ 12:00 Plenary Lecture Crowne Hall, 3F

Chairperson: Jinhua SHE

 $10:50 \sim 11:25$

When Is A Nonlinear System Semiglobally Asymptotically Stabilizable by Sampled-Data Feedback?

Wei LIN

Chairperson: Wenkai HU

 $11:25 \sim 12:00$

Intelligent Modeling of Carbon Efficiency in the Sintering Process

Jie HU

12:00 ~ 14:00 Lunch

14:00 ~ **15:45**

Session 1: Robotics Fuli 1 Hall, 3F

Chairperson: Jinseok WOO Co-Chairperson: Zhiyang JIA

 $14:00 \sim 14:15$

Design of Differential Drive Steering Active Caster Using Hypoid Gear

Tetta HIRAOKA, Yuki UENO

 $14:15 \sim 14:30$

Development of a Nonverbal Information Analysis System

Jinseok WOO, Yuka SONE, Chifuyu MATSUMOTO, Yasuhiro OHYAMA

 $14:30 \sim 14:45$

Development of a Smart Home System Based on Nonverbal Information Yutaro YOSHIGUCHI , Yuka SONE, Jinseok WOO

 $14:45 \sim 15:00$

Design of Low-Noise Drone propellers with Spanwise Gurney Flap Distribution Hayato KIKUCHI, Ryusuke NODA

 $15:00 \sim 15:15$

Multi-Connection Bidirectional RRT with Connection Suppression for Multi-Path Planning Enliang LIU, Bin XIN

 $15:15 \sim 15:30$

A Large Language Model-Driven Natural Language Instructions Control System for Robotic Arm Zongyang WU, Zhiyang JIA, Zhiyuan ZENG

15:30 ~ 15:45

Joint Scheduling for Multiload AGVs and Parallel Production Lines Considering Bernoulli Machines Zhiyuan ZENG, Zhiyang JIA, Zongyang WU

Fuli 2 Hall, 3F

14:00 ~ **15:45**

Session2:Optimization & Control Chairperson: Xianlin ZENG

Co-Chairperson: Daisuke TSUBAKINO

 $14:00 \sim 14:15$

Offload Instruction Optimization for Reconfigurable RISC-V/CGRA Processors Kentaro NAKAYA, Shoma OHARA, Kurokawa HIROAKI, Hiroaki KUROKAWA

 $14:15 \sim 14:30$

Development of Feedback Control Methods for Dynamic Temperature Distribution Control in Selective Laser Thermoregulation Systems

Yusaku KAWARAZAKI, Tomomasa OHKUBO, Shota UI, Ryota YAMADA, Ei-ichi MATSUNAGA, Yuki UENO

 $14:30 \sim 14:45$

An Improved NSGA-II Algorithm for Multi-UAV Task Assignment in Post-Disaster Scenarios Zijian ZHOU, Jia ZHANG, Mingchang CHEN

 $14:45 \sim 15:00$

Learn to Cooperate: Reinforced Ant Colony Algorithm for Multi-Agent Rescue Missions Zixu LI, Bin XIN, Qier MU, Yuhui HUANG

 $15:00 \sim 15:15$

Distributed Gradient-Free Algorithm for Nonconvex Nonsmooth Optimization with Non-Asymptotic Convergence

Jie HOU, Xianlin ZENG

15:15 ~ 15:30

Learning Approximate Nash Equilibrium in Zero-Sum Extensive-Form Games with Noisy Feedback Kui ZHU, Xianlin ZENG

 $15:30 \sim 15:45$

Construction of a pedaling force estimation model incorporating a bandpass filter and improvement of estimation accuracy

Fuli 5 Hall, 3F

Kyohei IWASAWA, Jinhua SHE, Sumio OHNO, Daisuke CHUGO

14:00 ~ 15:45

Session3: Machine Learning

Chairperson: Chengda LU

Co-Chairperson: Hiroaki KUROKAWA

 $14:00 \sim 14:15$

An Improved Lightweight μ -Forward-Forward Neural Network Based on Hash Mapping Chenglong WANG, Yuga SATO, Shoma OHARA, Hiroaki KUROKAWA

 $14:15 \sim 14:30$

Consideration of Reinforcement Learning AI using Neural Networks to Suggest Scan Paths for Selective Laser Thermoregulation

Shota UI, Tomomasa OHKUBO, Yusaku KAWARAZAKI, Ryota YAMADA, Ei-ichi MATSUNAGA, Yuki UENO

 $14:30 \sim 14:45$

Design of Intelligent Monitoring System for Geological Hazards Based on Multi-source Information Fusion Sijing CHEN, Yunyan SHAO, Zikang WU, Chengda LU, Min WU

 $14:45 \sim 15:00$

Fault Detection of Tunnel Drilling Rig in Underground Coal Mine Based on Sparse Autoencoder Haitao SONG, Shatie ZUO, Naiwen ZHANG, Aoxue YANG, Chengda LU, Min WU

 $15:00 \sim 15:15$

Degradation Trend Analysis For Electro-Hydraulic Drive System of Tunnel Drilling Rig in Underground Coal Mine Based on PCA and Z-Score Unsupervised Evaluation Naiwen ZHANG, Haitao SONG, Aoxue YANG, Chengda LU, Haipeng FAN, Min WU

15:15 ~ 15:30

An Intelligent Classification Method for Bipolar Disorder Based on Graph Convolutional Neural Networks Qifan SHEN, Yue ZHANG, Yujun GAO, Yawu WANG

 $15:30 \sim 15:45$

Relational Graph Neural Network with Self-Distillation for Multi-Modal Emotion Recognition in Conversation Dan CHEN, Zhentao LIU, Ruoyan WU

Fuli 1 Hall, 3F

15:45 ~ 16:05 Tea Break

 $16:05 \sim 17:50$

Session 4: Sustainable Engineering

Chairperson: Takahiro ARAKAWA

Co-Chairperson: NING LI

 $16:05 \sim 16:20$

Comparison of Muscle Coordination Patterns Between Passive Pedaling and Gait Using Muscle Synergy Analysis

Yuta TAKAHASHI, Akinori SEKIGUCHI

 $16:20 \sim 16:35$

Vibration Damping of AZ31 Magnesium Alloy Through Acoustic Pressure Measurement Keishi IIZUKA, Yoshiki MIURA, Ryusei NAGANUMA, Saneyuki ABE, Bando KOKI, Tomoki HAYAKAWA, Taro KATO, Mitsuaki FURUI

 $16:35 \sim 16:50$

Development of Paper-Based Wearable Pressure Sensors for Evaluation of Swallowing Function Jiahui HUANG, Baokang ZHANG, Ryuichi YASHIMA, Suzuki KAZUYA, Takahiro ARAKAWA

 $16:50 \sim 17:05$

Glucose Biosensing Using Electrospun Conductive Carbon Nanofibers with a Biocompatible Polymer Ryuichi YASHIMA, Kazuya SUZUKI, Keiichiro AMI, Takahiro ARAKAWA

 $17:05 \sim 17:20$

Frequency Characteristics of a High-Voltage Power Semiconductor Gate-Drive Circuit Using Resonant Inductive Wireless Power Transfer

Ning LI, Takeshi SHINKAI

 $17:20 \sim 17:35$

A Study on the Application of Bayesian Optimization to the Secondary Focusing System Shape in Solar-pumped Lasers

Ryota YAMADA, Tomomasa OHKUBO, Shota Ui, Yusaku KAWARAZAKI, Yuji SATO, Ei-ichi MATSUNAGA

 $17:35 \sim 17:50$

Numerical Study on Melt Pool Volume Variation of SUS304 under Different Laser Beam Shapes Houmin ZHENG, Tomomasa OHKUBO, Ryota YAMADA, Yusaku KAWARAZAKI, Shota UI

16:05 ~ 17:50

Session 5: Image, Acoustic, Speech & Signal Processing

Chairperson: AKINORI SEKIGUCHI

Co-Chairperson: Yawu WANG

 $16:05 \sim 16:20$

Design of Train Static Weighing Positioning System Based on Computer Image Processing Zhenmin CHEN, Lingfeng ZUO, Yiheng CHEN, Jun CHEN, Jundong WU, Yawu WANG

 $16:20 \sim 16:35$

Camera Control Using Rider Gaze and Head Pose Estimation for Bicycle Collision Prevention System Reiya YAMAGISHI, Akinori SEKIGUCHI

 $16:35 \sim 16:50$

Fusing Point and Line Features for 3D Point Cloud Tracking and Registration Ruyi HUANG, Xinpeng LIU, Yingshun LI, Xinyu YI, Zhannan GUO, Yang LIU

 $16:50 \sim 17:05$

A Comparative Study of Sensor-level Data Fusion Methods for Inertial Measurement Unit Signals Qin PENG, Juan ZHAO, Jinhua SHE, Feng WANG, Seiichi KAWATA

 $17:05 \sim 17:20$

Enhanced OC-SORT for UAV Swarm Tracking via Direction Consistency and Trajectory Memory Tianyang LI, Zhihong PENG, Yukun LI, Guanghong LIU, Wenzhong ZHA

 $17:20 \sim 17:35$

An Improved Multi-Scale Parallel Framework Incorporating UNet Branches for EEG Artifact Suppression Kaiyi TANG, Jinhua SHE, Juan ZHAO, Seiichi KAWATA

 $17:35 \sim 17:50$

Joint Networks for Speech Depression Detection Xinheng LI, Yujie ZOU, Dan CHEN, Zhentao LIU

16:05 ~ 18:05

Session 6: Intelligent Control and Distributed Systems

Chairperson: Xiang WU Co-Chairperson: Fan YIN

 $16:05 \sim 16:20$

A Distributed Coverage Control Framework via Spatio-Temporal Graph Attention Network and Control Barrier Functions

Fuli 5 Hall, 3F

Fuli 2 Hall, 3F

Mingcong ZHANG, Haoran CHANG, Xin CHEN

 $16:20 \sim 16:35$

Adaptive Finite-Time Fault-Tolerant Control for Quadrotor UAV Junzhe CHENG, Qing WANG, Bin XIN

 $16:35 \sim 16:50$

An Automated Weekly Report Analysis Framework for Project-Based Learning: An Exploration from a Natural Language Processing Perspective

Zhenxuan LU, Seiichi KAWATA, Juan ZHAO, Feng WANG, Jinhua SHE

 $16:50 \sim 17:05$

Development of a Gamified Online Language Learning System Based on Adventure Games Longhai QIN, Jinhua SHE, Shumei CHEN, Sumio OHNO, Hiroyuki KAMEDA

 $17:05 \sim 17:20$

Event-Triggered and Proportional-Integral Equivalent Input Disturbance Based Control for Networked Systems Meiliu LI, Jintao YANG, Lan ZHOU, Wenbin XIAO

 $17:20 \sim 17:35$

A Deep-Reinforcement-Learning-Based Position Synchronization Control for Multi-Axis Systems Ke XU, Wensheng CHEN, Yuanyuan SHAN, Yumeng ZHANG, Xiang WU, Hui DONG

 $17:35 \sim 17:50$

Intelligent Control Strategy for Power Generation Load in Boiler Combustion Process Based on Control of Three Process Variables

Xinjian ZHANG, Fan YIN, Fusheng PENG, Jie HU, Jundong WU

 $17:50 \sim 18:05$

Integrated Spatiotemporal Feature Modeling for Temperature Forecasting in Blast Furnace Hearth Linings Qifu CHEN, Jiaxin CHENG, Jianqi AN, Jinhua SHE

18:30 ~ 19:00	Closing Ceremony	Crowne Hall, 3F
Chairperson: Jie 1	1U	
19:00 ~ 21:00	Banquet	Crowne Hall, 3F



Wearable Biosensors and Volatile Biomarker Imaging System: Toward Real-Time, Non-Invasive Monitoring of Human Health

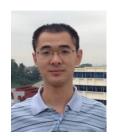
Takahiro Arakawa*

* Tokyo University of Technology, Japan

Abstract: The measurement of biophysical quantities of the human body has garnered significant attention in the medical and healthcare fields. Wearable sensors have emerged as promising tools for monitoring relevant parameters in healthcare, sports, and medical applications. Leveraging biophysical information with these systems is expected to enable proactive health management, thereby improving public health and reducing medical expenditure. This paper discusses two types of wearable biosensors: tear and saliva glucose biosensors. Our group has developed soft contact lens biosensors for tear chemicals and oral cavity biosensors, such as mouthguard biosensors for analysis. Challenges related to integrating biosensors into monitoring biological information and daily medicine are also addressed. Moreover, recent advancements in analytical devices have facilitated measurement of minute amounts of odorous materials and volatile chemical compounds. Human breath and skin volatiles, including gases from halitosis and body odor, contain compounds indicative of metabolic processes and specific ailments. Measurement of these volatile biological compounds holds promise for simplifying metabolic capacity evaluation, medical diagnostics, and disease screening. We have developed a novel two-dimensional fluorometric imaging system for detecting ethanol vapor released from human breath and palm skin. This imaging system measures ethanol vapor concentrations by analyzing the fluorescence intensity of nicotinamide adenine dinucleotide (NADH) through an enzymatic reaction induced by alcohol dehydrogenase. The NADH fluorometric imaging system enables

real-time, two-dimensional imaging of ethanol vapor distribution at ppb concentration levels. We applied this imaging system to measure breath ethanol vapor and skin ethanol vapor from a human palm, demonstrating rapid and accurate responses with visible measurements. This technology holds promise for real-time analysis of metabolism function in the near future.

Dr. Takahiro Arakawa is currently a Professor at the Department of Electric and Electronic Engineering, Tokyo University of Technology, since 2025. He had served as an Associate Professor at the same department since 2021. He received his BS and MS degrees from Waseda University in 2002 and 2004, respectively. He completed the Ph.D. program in Nanoscience and Nanoengineering and received his Ph.D. degree for research on "Microfluidic system for single cell analysis" from Waseda University in 2007. In 2008, he joined the Laboratory of Bioanalytical Chemistry at the University of Tokyo as a Postdoctoral Research Fellow of the Japan Society for the Promotion of Science (JSPS, PD). Since 2009, he served as an Assistant Professor at Tokyo Medical and Dental University in the Department of Biomedical Devices and Instrumentation, and was promoted to Junior Associate Professor in 2014. From 2017 to 2018, he was a visiting researcher at the Departments of Electrical Engineering and Bioengineering at the University of California, Los Angeles (UCLA). His research interests include microfluidics, bio micro-electro-mechan ical systems (Bio-MEMS), biosensors, optical systems, and bio-microsystems for medical applications.



Inverse Optimal Control from Expert Demonstrations

Chengpu Yu*

* Beijing Institute of Technology, China

Abstract: Inverse optimal control aims to recover the cost functions associated with control problems from expert demonstrations, which can be specially applied for the intention identification in a non-cooperative game setting. In this talk, according to different types of dynamical system models and optimal control settings, three inverse optimal control problems are discussed, including inverse linear quadratic optimal control using partial and noisy trajectory data, inverse model predictive control with time-varying or nonlinear systems, and inverse non-cooperative game with heterogeneous multiagent interactions. These results represent a step toward efficient, reliable, and interpretable behavioral modeling for dynamic systems, providing an alternative to the inverse reinforcement learning.

Chengpu Yu received the B. E. and M. E. degrees from the University of Electronic

Science and Technology of China, in 2006 and 2009, respectively, and the Ph.D. degree from Nanyang Technological University, Singapore, in 2014. From June 2014 to August 2017, he has been a PostDoc at Delft Center for Systems and Control, The Netherlands. He is currently a professor with School of Automation, Beijing Institute of Technology, China. His research interests include system identification and reinforcement learning.He has authored/co-auth ored more than 60 journal articles, and two research monographs on system identification. He has received the First Prize in Natural Science from the Chinese Association of Automation and the First Prize in Natural Science from the Ministry of Education in 2022. He is currently serving as associate editors of Control Theory and Technology, Journal of Systems Science and Complexity, and IEEE CSS Conference Editorial Board.



When Is A Nonlinear System Semiglobally Asympt otically Stabilizable by Sampled-Data Feedback?

Wei Lin*

* Case Western Reserve University, USA

Abstract: Most of the existing results in the literature were devoted to practical stabilization of nonlinear systems by sampled-data feedback and very few results are available on asymptotic stabilization, due to the nature of "sample and hold" and the hybrid closed-loop system. In this talk, we present recent breakthrough in semiglobal asymptotic control of general nonlinear systems by sampled-data feedback. For MIMO nonlinear systems, we prove that while global asymptotic stabilizability (GAS) may not ensure global or semiglobal asymptotic stabilizability (SGAS) by sampled-data state feedback, either global or semiglobal asymptotic stabilizability does imply the existence of a SGAS main contribution of this talk: GALES and uniform observability imply semiglobal asymptotic stabilizability by sampled-data output feedback, which is indeed a hybrid version of the "separation principle" for nonlinear systems. The development of the "digital separation principle" is made possible by employing a subtle Lyapunov argument that makes the estimation of domains of attraction and semiglobal asymptotic analysis intuitive and simple, without involving intricate Lyapunov functions and the corresponding level sets. Examples and results on SGAS by sampled-data feedback for representative classes of nonlinear systems are also given as illustrations.

Wei Lin received the D.Sc. and M.S. degrees in Systems Science and Mathematics from Washington University, St. Louis, in 1993 and 1991. He also received the B.S. and M.S. degrees in Electrical Engineering from Dalian University of Technology (1983) and Huazhong University of Science and Technology (1986),

respectively. During 1986 to 1989, he was a Lecturer in the Dept. of Mathematics at Fudan University, Shanghai, China. From 1994 to 1995, he was a post-doctor and Visiting Assistant Professor in Washington University. Since spring of 1996, he has been a Professor in the Dept. of Electrical, Computer, and Systems Engineering at Case Western Reserve University, Cleveland, Ohio. Dr. Lin's research interests include nonlinear control, dynamic systems with time-delay, homogeneous systems theory with applications, estimation and adaptive control, stochastic control and stochastic stability, control of under-actuated mechanical systems and nonholonomic systems, power systems, renewable energy and smart grids. In these areas, he has published a number of papers in peer-refereed journals and conferences. Dr. Lin was a recipient of the U.S. NSF CAREER Award, the Warren E. Rupp Endowed Professor, the Robert Herbold Faculty Fellow Award, the JSPS Fellow and IEEE Fellow. He served as an Associate Editor of the IEEE Trans. on Automatic Control (1999-2002), an Associate Editor of Automatica (2003-2005), a Guest Editor of IJC Special Issue on "New Directions in Nonlinear Control" (2003), a Subject Editor of J. of Robust and Nonlinear Control (2005-2010), an Associate Editor of Journal of Control Theory and Applications (2005-2008), Board Governors of IEEE Control Systems Society (2003-2005), and Vice Program Chair of 2001 IEEE CDC (Short Papers) and 2002 IEEE CDC (Invited Papers). He has also been a Plenary Speaker in several IFAC and IEEE conferences including the IFAC NOLCOS'04 at Stuttgart, Germany, and the 7th IFAC Symposium on Nonlinear Control, Perugia, 2007.



Intelligent Modeling of Carbon Efficiency in the Sintering Process

Jie Hu*

* China University of Geosciences, China

Abstract: The sintering process represents a typical industrial process. This process involves numerous complex characteristics, such as multiple parameters, nonlinearity, and multiple operating conditions, etc. In order to effectively enhance the energy utilization rate of this process, it is necessary to conduct an effective prediction of carbon efficiency. Therefore, a series of carbon efficiency intelligent prediction models based on artificial intelligence algor ithms have been proposed. It laid the foundation for achieving energy conservation and emission reduction in the sintering process.

Jie Hu received the B.S. degree in automation and the Ph.D. degree in control science and engineering from China University of Geosc iences, Wuhan, China, in 2015 and 2020, respectively. He was a joint Ph.D. student with the Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB, Canada, from 2018 to 2020. He was a Post-Doctoral Fellow of control science and engineering, China University of Geosciences, from 2020 to 2022, where he is currently a Professor with the School of Automation. His current research interests include process control, intelligent control, and computational intellige nce. He was recipient of the Best Paper Award of the IEEE International Conference on Industrial Technology in 2025 and the Young Researcher Award of the 13th China-Japan International Workshop on Information Techn ology and Control Applications in 2020.





The 16th International Workshop on Information Technology and Control Applications (ITCA2025)



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