第 42 届中国自动化学会青年学术年会

(YAC 2027)

2027 年 5 月 7-9 日，中国·北京

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征文启事

中国自动化学会青年学术年会 (YAC) 是由中国自动化学会主办、中国自动化学会青年工作委员会组织召开的全国性年度学术会议，至今已成功举办 41 届。中国科协于 2018 年首次发布《重要学术会议指南》以来，YAC 已经连续 9 年入选指南。第 42 届青年学术年会 (YAC 2027) 由中国自动化学会和中国自动化学会青年工作委员会主办，北京信息科技大学承办，北京自动化学会、安徽大学、北京科技大学、北方工业大学、西安理工大学协办，将于 2027 年 5 月 7-9 日在北京召开，旨在为自动化领域的国内外学者与技术人员提供一个学术交流平台，展示最新的理论与技术成果。会议采用大会报告、专题研讨会、分组报告和张贴论文等形式进行交流。

借此机会，热烈欢迎海内外各高等院校、科研院所和企事业单位的青年教师、青年科技工作者及博士生、硕士生等青年才俊踊跃参加。往届会议英文稿件均已被 IEEE Xplore Library 收录，并被 EI 检索。会议优秀中文稿件可推荐至《自动化学报》、《控制与信息技术》等期刊。YAC 2027 将组织《自动化学报》热点论坛，并联合《智能科学与技术学报》、《工程科学学报》等期刊设立特别专题收录部分优秀稿件。

征文范围

主要征文领域（包括但不限于）：

1.系统理论与控制理论
2.复杂系统理论与方法
3.模式识别与人工智能
4.导航、制导与控制
5.具身智能
6.仿生机器人及应用
7.自主无人系统
8.工业和服务机器人及应用
9.新概念无人系统与平台
10.多智能体系统及分布式控制
11.脑科学与类脑智能
12.故障诊断与系统安全
13.数据驱动建模与控制
14.工业过程建模、优化与控制
15.信息物理系统和网络安全
16.新能源控制系统
17.智能制造
18.其他

YAC 2027 特设立特邀专题论坛（Invited Sessions），欢迎专家学者针对自动化领域前沿热点方向组织特邀专题。特邀专题申请模板链接：https://www.caayac.org.cn/invited-sessions2027/

投稿要求

论文应具有一定的学术或实用价值，接收中、英文稿件，论文格式请参考 IEEE 论文格式要求，双栏排版。会议接收长摘要投稿，具体要求见会议网站。

所有参会作者都需通过投稿系统，会议网站下载论文模板完成论文并以 PDF 文件格式上传。

投稿链接：https://review.cacpaper.com/957/login

会议更多信息请参见：http://www.caayac.org.cn

重要日期

特邀专题申请截止日期：	2026 年 12 月 31 日	录用通知日期：	2027 年 3 月 20 日
投稿截止日期：	2027 年 1 月 31 日	最终稿提交日期：	2027 年 3 月 31 日

The 42nd Youth Academic Annual Conference of Chinese Association of Automation (YAC 2027)

7-9 May 2027, Beijing,China

Advisory committee

- *Mengfei Yang, China Academy of Space Technology*
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- *Maobin Lv, Beijing Institute of Technology*
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- *Zhonghua Pang, North China University of Technology*

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- *Jinzhu Peng, Zhengzhou University*
- *Weichao Sun, Harbin Institute of Technology*
- *Zhengxing Wu, Institute of Automation, Chinese Academy of Sciences*
- *Yao Zou, University of Science and Technology Beijing*

Publicity Chairs

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- *Haifeng Song, Beihang University*
- *Jundong Wu, China University of Geosciences*
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- *Kai Fang, Zhejiang A&F University*
- *Gan Sun, South China University of Technology*
- *Linghuan Kong, University of Macau*

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- *Ning Liu, Beijing Information Science and Technology University*
- *Haifeng Huang, University of Science and Technology Beijing*

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- *Zhichuang Wang, University of Science and Technology Beijing*
- *Donghao Zhang, Beijing Information Science and Technology University*

CALL FOR PAPERS

The Youth Academic Annual Conference of the Chinese Association of Automation (YAC) is an annual national academic conference sponsored by the Chinese Association of Automation (CAA) and organized by its Youth Working Committee. To date, 41 editions of the conference have been successfully held. Since the China Association for Science and Technology (CAST) first released the《Guide to Important Academic Conferences》in 2018, YAC has been included in the Guide for nine consecutive years. The 42nd Youth Academic Annual Conference (YAC 2027) is sponsored by the Chinese Association of Automation and its Youth Working Committee, hosted by Beijing Information Science and Technology University, and co-organized by the Beijing Association of Automation, Anhui University, University of Science and Technology Beijing, North China University of Technology, and Xi'an University of Technology. The conference will be held in Beijing from May 7 to 9, 2027, providing a platform for researchers and professionals in automation from China and abroad to present the latest theoretical and technological advances. YAC 2027 will feature plenary talks, thematic seminars, parallel oral sessions, and poster sessions.

On this occasion, we warmly welcome young faculty members, young scientists and engineers, doctoral students, master's students, and other outstanding young talents from universities, research institutes, enterprises, and public institutions in China and abroad to participate in YAC 2027. All English papers from previous YAC conferences have been included in the IEEE Xplore Digital Library and indexed by EI. Outstanding Chinese papers may be recommended for publication in journals such as 《Acta Automatica Sinica》and《Control and Information Technology》. YAC 2027 will also organize the《Acta Automatica Sinica》Hot Topic Forum, and special issues of journals including《Chinese Journal of Intelligent Science and Technology》and《Chinese Journal of Engineering》will publish selected outstanding papers.

Topics of YAC 2027

Topics include, but are not limited to:

1. System and Control Theory
2. Complex Systems Theory and Methods
3. Pattern Recognition and Artificial Intelligence
4. Guidance, Navigation and Control
5. Embodied Intelligence
6. Bioinspired Robots and Applications
7. Autonomous Unmanned Systems
8. Industrial and Service Robots and Applications
9. Novel Unmanned Systems and Platforms
10. Multi-agent System and Distributed Control
11. Brain Science and Brain-like Intelligence
12. Fault Diagnosis and System Safety
13. Data-driven Modeling and Control
14. Industrial Process Modeling, Optimization and
15. Cyber-Physical Systems and Network Security
16. New Energy Control Systems
17. Intelligent Manufacturing
18. Others

YAC 2027 will feature Invited Sessions, and experts and scholars are welcome to organize invited sessions on frontier and emerging topics in automation. The template for Invited Session proposals is available at: https://www.caayac.org.cn/invited-sessions2027/

Paper Submission Requirements

Papers should have academic or practical value. Submissions in both Chinese and English are welcome and should follow the IEEE two-column format. Extended abstracts are also accepted. Please refer to the conference website for detailed requirements.

All submissions must be prepared using the official paper template available on the conference website and submitted in PDF format via the online submission system.

Submission Link: https://review.cacpaper.com/957/login
More information about the conference is available at: http://www.caayac.org.cn

IMPORTANT DATES

Deadline for Invited Session Proposals:	December 31, 2026	Notification of acceptance:	March 20, 2027
Deadline for all submissions:	January 31, 2027	Final submission:	March 31, 2027