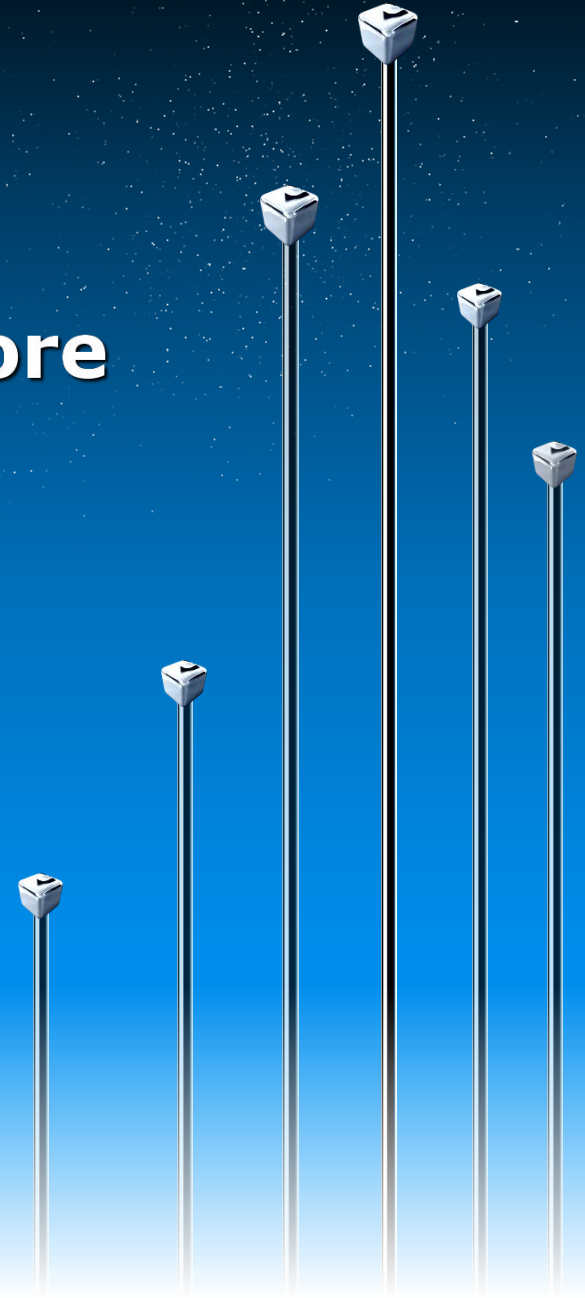


Robotics Society of Singapore

新加坡机器人学专业协会

www.rss.org.sg



Outline 提纲

- ❏ 协会的历史 **History**
- ❏ 协会的愿景 **Vision**
- ❏ 协会的使命 **Mission**
- ❏ 协会的任务 **Focus**
- ❏ 协会的框架 **Structure**
- ❏ 协会的活动 **Activities**



协会的历史 HISTORY

协会的历史 History



- ❏ 新加坡机器人学专业协会成立于2010年11月29号。
- ❏ 它是一个在新加坡内政部正式注册 (注册号: T10SS0158F) 的民间非赢利专业团体。
- ❏ 自成立之日起, 新加坡机器人学专业协会就代表新加坡成为<亚太机器人协会联盟> (www.asian-robotics.org) 的正式成员之一。
- ❏ 新加坡机器人学专业协会也是<世界机器人合作组织>的发起单位之一, 并且是其理事会成员之一。
- ❏ 它的宗旨是联络对机器人学感兴趣的各阶层专业人士、学者和学生。它的功能是促进机器人在新加坡的教学、科研、娱乐、保健、护理、工业自动化、服务自动化、交通自动化、医疗智能化、国防现代化、以及其它领域的推广和运用。

协会的历史 History



- ❏ The discussion on the setup of the Robotics Society of Singapore was triggered by the invitation from Professor Tomomasa Kato, the 2010 President of Robotics Society of Japan, to Prof. Xie Ming.
- ❏ In the invitation, Prof. Xie Ming has been invited to represent Singapore to participate to the annual meeting under the name of Asian Robotics Society Summit.
- ❏ With the help from James Lee and Xu Jin, the scope and vision for Robotics Society of Singapore have been drafted.

To continue ...

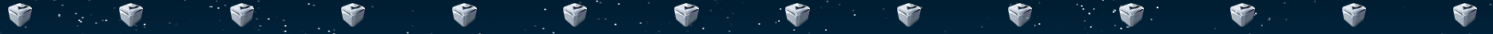
协会的历史 History (continued)

- ❏ The registration of RSS was approved by the Singapore government on 29 November, 2010 and was given the UEN number, which is T10SS0158F.
- ❏ RSS is a professional, and not-for-profit, organization in Singapore.
- ❏ RSS aims at nurturing friendship and promoting robotics among those corporations and individuals who believe that robots will be a big thing to come, to play, and to contribute to the mankind and the modern society.
- ❏ RSS is one of the founding members of Pacific-Asia Robotics Society Union (PARSU) (www.asian-robotics.org).
- ❏ RSS is also one of the founding members of World Robot Cooperation Organization (WRCO) with the headquarter located in Beijing, China.



协会的愿景 VISION

协会的愿景 Vision



 To be the premium platform of promoting friendship and robots in Singapore and beyond.

 成为新加坡及周边地区推广机器人及其关联人脉的最佳平台。



协会的使命 MISSION

协会的使命 Mission

❏ To nurture practice, education, training, innovation and techno-entrepreneurship (PETIT) among individuals with passions for robotics science and robotics products in Singapore and beyond.

❏ 我们的使命是：

- 积极促进机器人科学与技术的传授
- 努力提升机器人成果与产权的保护
- 持续推动机器人研发与产业的合作
- 全面深化机器人理论与技术的创新
- 广泛普及机器人成果与产品的应用



协会的任务 FOCUS

协会的任务 Focus

Build RSS Society

机器人
科技平台

- 会员之家
- 成果之库
- 产品之园
- 服务之地
- 金融之源

Grow Membership

机器人
科技人才

- 理想聚会员
- 使命聚会员
- 利益聚会员
- 友谊聚会员
- 关爱聚会员

Promote R&D Findings

机器人
科技成果

- 专有技术
- 专利技术
- 基础理论
- 核心原理
- 核心创意

Nurture Entrepreneurship

机器人
科技产品

- 智能化产品
- 网络化产品
- 微型化产品
- 节能化产品
- 环保化产品

Serve Communities

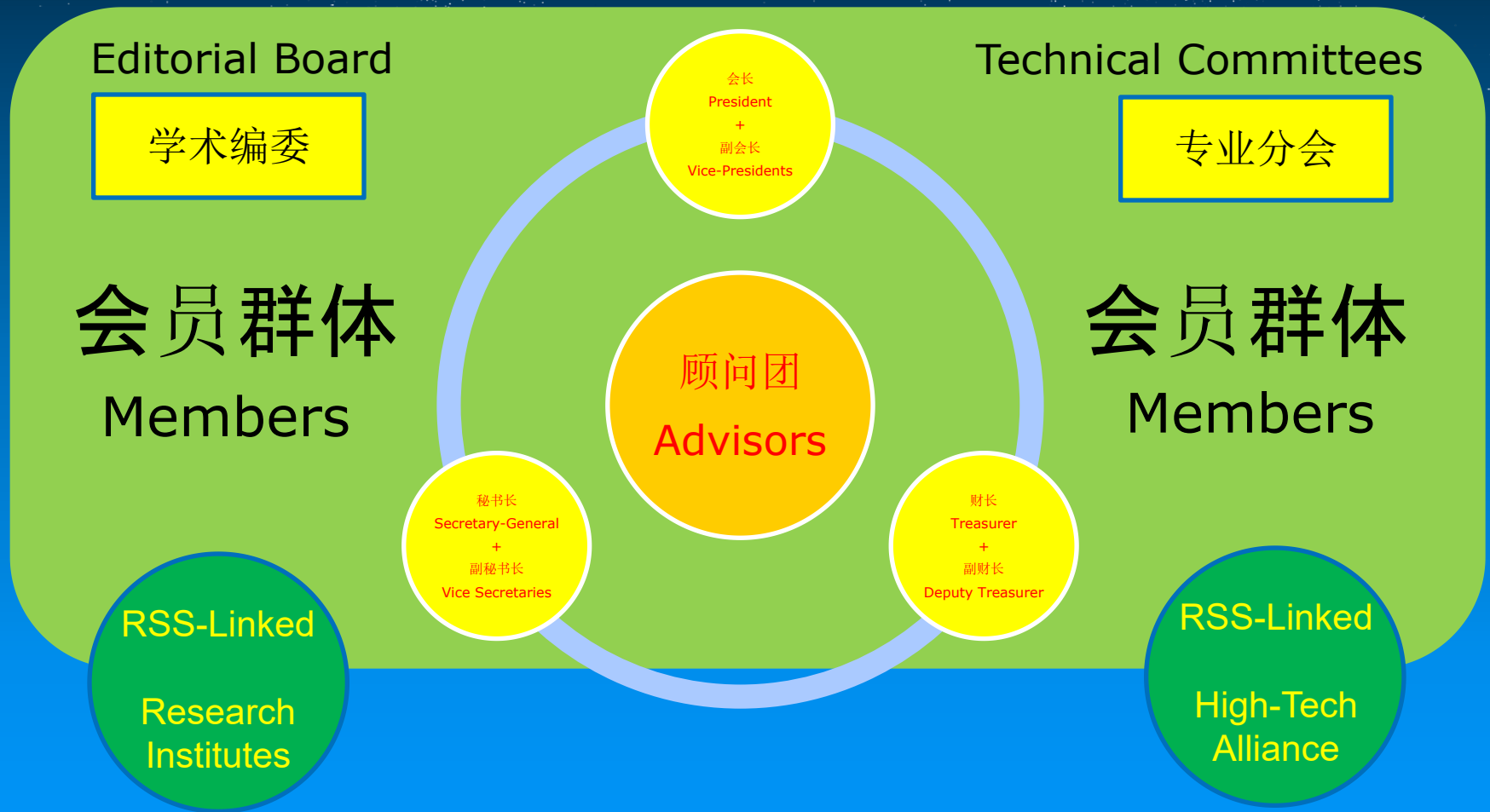
机器人
科技服务

- 科技金融
- 科技教育
- 科技合作
- 科技论坛
- 科技评估



协会的框架 STRUCTURE

协会的框架 Structure



Executive Committee (2010 - 2025)



President	Vice Presidents	General Secretary	Deputy General Secretary	Treasurer	Deputy Treasurer	Committee Members
Xie Ming	Xu Bu Hai Tian Qi Zhang Xu Dong	Wee Teck Chew	Huang Tao Alex Tan Guo Fei Jerry Liu Jia	James Lee	Hao Jinxin Qin Bin	Yin Xiaoming Lu Jiangzhou Xu Jin How Woei Mun Melvin Ang Steven Chan Lee Yew Fai

Executive Committee (2025 - Onward)



Honorary Presidents	President	Vice Presidents	General Secretary	Vice General Secretaries	Treasurer	Deputy Treasurers	Committee Members
Tian Qi	Xie Ming	Xu Bu Hai Wee Teck Chew Huang Tao Qin Bin	Xu Jin	Zhang Alex Tan Alex Lim David	James Lee	Hao Jinxin	Yin Xiaoming Lu Jiangzhou How Woei Mun Melvin Ang Steven Chan Lee Yew Fai

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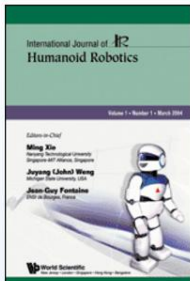
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International Journal of Humanoid Robotics

Aims & Scope

The International Journal of Humanoid Robotics (IJHR) covers all subjects on the mind and body of humanoid robots. It is dedicated to advancing new theories, new techniques, and new implementations contributing to the successful achievement of future robots which not only imitate human beings, but also serve human beings. While IJHR encourages the contribution of original papers which are solidly grounded on proven theories or experimental procedures, the journal also encourages the contribution of innovative papers which venture into the new, frontier areas in robotics. Such papers need not necessarily demonstrate, in the early stages of research and development, the full potential of new findings on a physical or virtual robot.

IJHR welcomes original papers in the following categories:

- Research papers, which disseminate scientific findings contributing to solving technical issues underlying the development of humanoid robots, or biologically-inspired robots, having multiple functionality related to either physical capabilities (i.e. motion) or mental capabilities (i.e. intelligence)
- Review articles, which describe, in non-technical terms, the latest in basic theories, principles, and algorithmic solutions
- Short articles (e.g. feature articles and dialogues), which discuss the latest significant achievements and the future trends in robotics R&D
- Papers on curriculum development in humanoid robot education
- Book reviews

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Vol. 12, Iss. 01
- Humanoids can take Advantage of Crab-Walking Gaits
Vol. 12, Iss. 01
- Design of a Momentum-Based

Technical Committees 专业分会



Committee of Humanoid Robots

- 人形机器人分会

Committee of Service Robots

- 服务机器人分会

Committee of Medical Robots

- 医疗机器人分会

Committee of Special Robots

- 特种机器人分会

Collaborators 合作机构

- ❏ Pacific-Asia Robotics Society Union (PARSU)
- ❏ World Robot Cooperation Organization (WRCO)
- ❏ Industrial Artificial Intelligence Alliance (AIIA)
- ❏ World Green Design Organization (WGDO)
- ❏ More to come ...



协会的活动 **ACTIVITIES**

Technical Conference



RobotX Competition



Meeting



Annual Meeting 2025

Robotics Society of Singapore



February 15, 2025 (Saturday), 2:00 PM



Location: 1 Fusionopolis Walk 04-05/06,
Solaris South Tower, Singapore 138628



2:00 - 2:30 PM | Financial Review & Council Election



2:30 - 3:00 PM | Tea Break & Networking



3:00 - 4:30 PM | Robotics Lecture Series



◆ Key Steps Toward Development of Humanoid Robots



Speaker: Prof. Xie Ming, Editor-in-Chief, International Journal of
Humanoid Robotics



◆ Unlocking Robotics Potential with AI Chips



◆ Singapore's Robotics Education and ROS Ecosystem



4:30 PM | Dinner & Networking



5:30 PM | Event Conclusion

**Afternoon tea & buffet dinner provided (on-site only) | Free for
RSS members | \$10 SGD for non-members (pay on-site)
| Online participation is free.**

Online Participant:

Scan the QR code to register and get
the meeting link.

MORE INFO

Email: secretary@robotics.sg

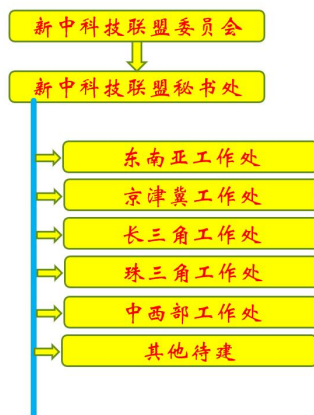
<https://robotics.sg/>



High-Tech Alliance 新中科技联盟

联盟使命

- ▶ 以新中科技为本
- ▶ 整合科技人才、科技成果、政策红利、金融资本、市场渠道
- ▶ 打造可复制的科技产业生态和科技产业链
- ▶ 帮助新中科技人员实现科技事业的落地、生根、开花、结果、成林。



联盟目标

新中科技联盟

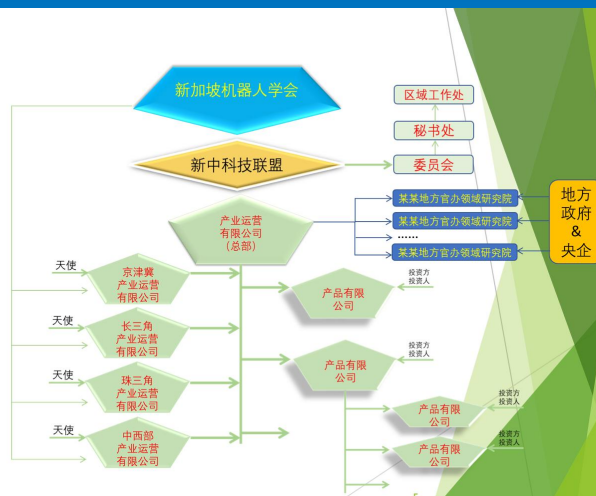
新中科技联盟委员会 (战略+战术)

新中科技联盟秘书处 (行政+执行)

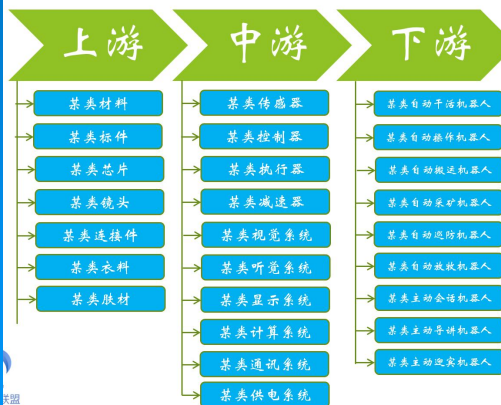
联谊平台 (智力库)	产业平台 (产业链)
目标: 壮大智力, 支撑产业平台	目标: 壮大财力, 资助联谊平台
方法: 以精准的服务和优质的资源吸引高新科技人才加盟和发展。	方法: 以精准的服务和优质的资源扶持技术成果产业化和商业化。

联盟愿景

- ▶ 成为新中两国科技人员:
- ▶ 施展高级才华
- ▶ 实现经济价值
- ▶ 成就社会地位
- ▶ 造福人类文明
- ▶ 的幸福舞台。



智能机器人产业链



要点:

1. 每个产品设1间公司
2. 每间公司把产品做到极致
3. 每间公司的股权结构:
 - 3%: 不可稀释: 区域运营公司
 - 30%: 市场团队
 - 30%: 技术团队
 - 37%: 融资团队
4. 优先支撑内部市场
5. 竞争对外

10

High-Tech Alliance 新科技联盟



Example of Robot Prototypes



Small-sized Humanoid Robot



Medium-sized Humanoid Robot



Full-sized Humanoid Robot



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THANK YOU