IFAC-ACA 2025 Technical and Social Programme at a Glance

Aug. 2

Lobby: Registration

Aug. 3

08:30–09:00 — Grand Ballroom 2 & 3: Opening Ceremony

09:00–09:45 — Grand Ballroom 2 & 3
Plenary talk 1: The Future in Space: Smarter, Smaller and More Cooperative Satellites
Prof. Klaus Schilling, Center for Telematics (ZfT), Wuerzburg, Germany
Grand Ballroom Foyer: Exhibition Booths

09:45–10:15 — Group Photo Session (Grand Ballroom); Session break

10:15–11:00 — Grand Ballroom 2 & 3
Plenary talk 2: Optimal Solar Sail Control for Launching into Artificial Periodic Orbits near L2 of Earth-Moon System
Prof. Olga Leonardovna Starinova, Samara National Research University, Russia

11:00–11:45 — Grand Ballroom 2 & 3
Plenary talk 3: On Key Technologies for Spacecraft Intelligent Autonomous Control and Application Prospects
Prof. Yongchun Xie, Beijing Institute of Control Engineering (BICE), China
Grand Ballroom Foyer: Exhibition Booths

12:00–14:00 — Grand Ballroom 1 & Lobby Western Restaurant: Lunch

14:00–15:30 — Parallel Sessions 1–5 (Session I)

Function Room 1	Function Room 2	Function Room 3	Grand Ballroom 2	Grand Ballroom 3
I	I	I	I	I
Swarm Intelligence in Aerospace Dynamics and Control	Advanced Navigation, Control, and Swarm Coordination for Aircraft Cluster	Advanced Control and Path Planning of Space Robots	Micro- and Nano-Satellites and Education	Space Traffic Management

Grand Ballroom Foyer: Exhibition Booths

15:30–16:00 — Session break

16:00–17:00 — Session II

Function Room 1	Function Room 2	Function Room 3	Grand Ballroom 2	Grand Ballroom 3	Meeting Room	Grand Ballroom Foyer
II	II	II	II	II		
Swarm Intelligence in Aerospace Dynamics and Control	Advanced Navigation, Control, and Swarm Coordination for Aircraft Cluster	Advanced Control and Path Planning of Space Robots	Micro- and Nano-Satellites and Education	Space Traffic Management	Meeting Room: TC Committee Meeting	Exhibition Booths

18:00–20:00 — Grand Ballroom 1 & Lobby Western Restaurant: Dinner

Aug. 4

08:30–09:00
Grand Ballroom 2 — Semi-Plenary talk 1: Dynamics and Control of Smart Structures for Space Applications, Prof. Jinjun Shan, York University, Canada
宴会厅 3：航天控制论坛 — 特邀报告 1 鸟群智能激发汇聚启发的无人机集群自主控制 段海滨教授 北京航空航天大学

09:00–09:45
Semi-Plenary talk 2: Aerospace Control Education, Prof. Paolo Castaldi, University of Bologna, Italy
特邀报告 2 基于全驱系统方法的无退绕航天器姿态控制 陈立群教授 哈尔滨工业大学（深圳）
Semi-Plenary talk 3: Key Technologies of UAV-USV Cooperation System for Maritime Search and Rescue, Prof. Weidong Zhang, Shanghai Jiao Tong University, China
特邀报告 3 空间科学极限探测任务中的控制技术及前沿进展 张永合研究员 中国科学院微小卫星创新研究院

Function Room 1: Poster Session & Grand Ballroom Foyer: Exhibition Booths

09:45–10:15 — Session break

10:15–11:45 — Parallel Sessions 6–11 (Session I)

VIP Room	Function Room 2	Function Room 3	Meeting Room	Grand Ballroom 2	Grand Ballroom 3
Guidance and Control for High-Speed Flight in Trans-Domain Complex Environment	Space Intelligent Equipment: Technologies and Applications	Advanced Propulsion	Space Debris Mitigation	Game Decision and Control for Non-Cooperative Space Targets	Advanced Theories and Applications of Very Low Earth Orbit Spacecraft

Function Room 1: Poster Session & Grand Ballroom Foyer: Exhibition Booths

12:00–14:00 — Grand Ballroom 1 & Lobby Western Restaurant: Lunch

14:00–15:30 — Parallel Sessions 12–17 (Session I)

VIP Room	Function Room 2	Function Room 3	Meeting Room	Grand Ballroom 2	Grand Ballroom 3
I	I	I	I	I	I
Intelligent Autonomous Swarm Perception, Decision-Making, Control, and Applications	Contemporary Advances in AI and Its Application in Aerial Systems	S1: On Advanced Filtering and Control for Complex New Space Missions; S2: Health Monitoring, Diagnosis, and Reconfiguration	S1: Advanced Control of Large-Scale and Distributed Space Structures; S2: Applications of Machine Learning in Rendezvous and Docking as well as Space Operations	S1: Spacecraft Collision Threat Prediction and Autonomous Avoidance Control; S2: Space Situation Awareness	Advanced Information Fusion Technology for Aerospace Applications

Function Room 1: Poster Session & Grand Ballroom Foyer: Exhibition Booths

15:30–16:00 — Session break

16:00–17:00 — Session II

VIP Room	Function Room 2	Function Room 3	Meeting Room	Grand Ballroom 2	Grand Ballroom 3
II	II	II	II	II	II
Intelligent Autonomous Swarm Perception, Decision-Making, Control, and Applications	Contemporary Advances in AI and Its Application in Aerial Systems	S1: On Advanced Filtering and Control for Complex New Space Missions; S2: Health Monitoring, Diagnosis, and Reconfiguration	S1: Advanced Control of Large-Scale and Distributed Space Structures; S2: Applications of Machine Learning in Rendezvous and Docking as well as Space Operations	S1: Spacecraft Collision Threat Prediction and Autonomous Avoidance Control; S2: Space Situation Awareness	Advanced Information Fusion Technology for Aerospace Applications

Function Room 1: Poster Session & Grand Ballroom Foyer: Exhibition Booths

18:00–20:00 — Grand Ballroom 1 & Lobby Western Restaurant: Dinner

Aug. 5

08:30–09:45 — Parallel Sessions 18–23 (Session I)

Function Room 1	Function Room 2	Function Room 3	Meeting Room	Grand Ballroom 2	Grand Ballroom 3	VIP Room	Grand Ballroom Foyer
I	I	I	I	I	I		
Autonomous Navigation and Control of Deep Space Probes	Aircraft Dynamics, Navigation, Guidance and Control	Resilient and Cooperative Guidance and Control of Aerial Vehicles	Artificial Intelligence-Based Attitude-Orbit Control for Multiple Spacecraft Systems	FAS Theory and Applications in Aerospace Control	Spacecraft Advanced Control for On-orbit Complex Missions	VIP Room: Excellent Thesis Defense	Grand Ballroom Foyer: Exhibition Booths

09:45–10:15 — Session break

10:15–11:45 — Session II

Function Room 1	Function Room 2	Function Room 3	Meeting Room	Grand Ballroom 2	Grand Ballroom 3	VIP Room	Grand Ballroom Foyer
II	II	II	II	II	II		
Autonomous Navigation and Control of Deep Space Probes	Aircraft Dynamics, Navigation, Guidance and Control	Resilient and Cooperative Guidance and Control of Aerial Vehicles	Artificial Intelligence-Based Attitude-Orbit Control for Multiple Spacecraft Systems	FAS Theory and Applications in Aerospace Control	Spacecraft Advanced Control for On-orbit Complex Missions	VIP Room: Excellent Thesis Defense	Grand Ballroom Foyer: Exhibition Booths

12:00–14:00 — Grand Ballroom 1 & Lobby Western Restaurant: Lunch

14:00–15:30 — Parallel Sessions 24–27

Function Room 1	Function Room 2	Function Room 3	Meeting Room
Advanced Safe Decision Making and Control for Aerospace Systems	Diagnosis, Maintenance, and Digital Simulation of LEO Constellation Satellites	Large-Scale Constellation Control and Management	Flexible Structure Control for Aerospace

Grand Ballroom Foyer: Exhibition Booths

15:30–16:00 — Session break

16:00–16:15 — Grand Ballroom 2 & 3
Plenary talk 4: Optimal Guidance in Soft-Landing of Chandrayaan-3
Prof. Radhakant Padhi, Indian Institute of Science, India

16:15–17:00 — Grand Ballroom 2 & 3
Plenary talk 5: In-Cabin Robots for Space Stations: Research Status and Key Technologies
Prof. Lixian Zhang, Harbin Institute of Technology, China
Grand Ballroom Foyer: Exhibition Booths

17:00–18:00 — Grand Ballroom 2 & 3: Closing Ceremony

18:00–20:00 — Lobby Western Restaurant / Grand Ballroom 1: Farewell Banquet

Aug. 6

Tours

地址注释：多功能厅 1—Function Room 1; 多功能厅 2—Function Room 2; 多功能厅 3—Function Room 3; 董事会议室—Meeting Room; 宴会厅 1—Grand Ballroom 1; 宴会厅 2—Grand Ballroom 2; 宴会厅 3—Grand Ballroom 3;
贵宾厅—VIP Room; 美食汇西餐厅—Lobby Western Restaurant; 廊厅—Grand Ballroom Foyer.