



FC 2026
The 16th International Conference
on Frontier Computing
Theory, Technologies and Applications

FINAL PROGRAM

July 6 – 10, 2026
Prague, Czech Republic



The 16th International Conference on Frontier Computing

– Theory, Technologies and Applications –

Co-Located Event

**2026 International Conference on Machine Learning on FinTech,
Security and Privacy (MLFSP 2026)**

Frontier Innovation Award Competition 2026 (Fi – Award 2026)

FC 2026 European Forum Final Program

Prague, the Czech Republic

July 6 - 10, 2026

Organized by

Frontier Computing Conference Group

Sponsors



IET Taipei Local Network

國際工程與科技學會中華民國分會

Message from Organizing Committees

The inception of the International Conference on Frontier Computing – Theory, Technologies, and Applications (FC) dates back to an IET executive meeting in early 2010. This esteemed conference series serves as a platform for an expansive exchange of ideas, aiming to achieve a comprehensive understanding of the latest advancements and emerging trends in information technology, science, and engineering. The thematic focus encompasses areas such as communication technology and applications, computer science, business intelligence and knowledge management, artificial intelligence, and other relevant domains that actively advance information technology.

Marking its 16th iteration, FC2026 represents the continued evolution of a distinguished tradition. Noteworthy contributions and findings from past conferences—including FC 2010 (Taichung, Taiwan), FC 2012 (Xining, China), FC 2013 (Gwangju, Korea), FC 2015 (Bangkok, Thailand), FC 2016 (Tokyo, Japan), FC 2017 (Osaka, Japan), FC 2018 (Kuala Lumpur, Malaysia), FC ABH 2019 (Taichung, Taiwan), FC 2019 (Kitakyushu, Japan), FC 2020 (Singapore, Online), FC 2021 (Online), FC 2022 (Tokyo, Japan), FC 2023 (Tokyo, Japan, Hybrid), FC 2024 (Singapore), and FC 2025 (Osaka, Japan)—have been meticulously preserved in digital libraries and conference proceedings.

Bringing together researchers from around the world, this scholarly gathering continues to nurture a vibrant and intellectually stimulating environment. It encourages dynamic academic discussions that expand the boundaries of knowledge and inspire future interdisciplinary collaborations. This year, FC2026 will take place from July 6 to 10, 2026, across two parallel forums: the Asian Forum in Seoul, Korea, and the European Forum in Prague, the Czech Republic. Through this dual-forum arrangement, FC2026 aims to further promote global academic exchange and strengthen collaboration between Asia and Europe.

The conference proceedings will comprise a carefully curated selection of accepted papers that showcase the current frontiers of computing. In addition to the main sessions, FC2026 will include specialized workshops, panel discussions, and focused symposia, providing a comprehensive perspective on the latest developments in frontier computing.

We extend our deepest gratitude to all authors, reviewers, and participants whose dedication and contributions have made this conference possible. Their involvement has been crucial in maintaining the high standards of the FC conference series.

Lastly, we recognize the invaluable support of our international program and organizing committee members, whose expertise and commitment continue to shape FC's success. We look forward to the ongoing growth of this global community and to welcoming you to future FC events.

Organizing Committees
FC Conference Group
July 2026

Organizing Committees

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- Minfeng Lee, National Museum of Natural Science, Taiwan
- Chingta Lu, Asia University, Taiwan
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- Junhong Shen, Asia University, Taiwan
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Schedule

Day 1 - July 6, 2026 (Monday)	
9: 00 ~ 11: 00	Executive Committee Meeting

Day 2 - July 7, 2026 (Tuesday)	
	Room A
9: 00 ~ 10: 00	Keynote Speech (Hybrid): Prof. Donghyun Kang
11:00 ~ 14: 00	Ceremony

Day 3 - July 8, 2026 (Wednesday)	
	Anette Conference Room
13: 00 ~ 17: 00	Session 3 – 1 Pannel discussion

Day 4 - July 9, 2026 (Thursday)	
9: 00 ~ 12: 00	Technical Visit*
13: 00 ~ 17: 00	Executive Committee Meeting: Post-Conference Review Meeting*²

Day 5 - July 10, 2026 (Friday)	
9: 00 ~ 12: 00	Technical Visit*
13: 00 ~ 17: 00	Executive Committee Meeting: Post-Conference Review Meeting*²

*¹ The Technical Visit is open to invited participants only.

*² This session is convened by the Executive Committee for a comprehensive post-event review. Discussions will cover a full evaluation of conference procedures and operational workflows, the consolidation of feedback from contributors, and an editorial alignment review of documents from the main event and all sub-events, ensuring that overall procedures and documentation comply with official FC regulations and publication standards

Keynote Speaker



Prof. Donghyun Kang

Department of Computer Science and Artificial Intelligence at Dongguk University in Seoul, South Korea

Prof. Donghyun Kang is an Associate Professor in the Department of Computer Science and Artificial Intelligence at Dongguk University in Seoul, South Korea. His research lies at the intersection of system software, emerging storage technologies, and advanced computing infrastructures. Prof. Donghyun Kang's pioneering work focuses on operating systems (OS), file and storage systems, NAND flash memory, Non-Volatile RAM (NVRAM), and system-level optimizations for Large Language Models (LLMs). Throughout his academic career, he has made significant contributions to the development of next-generation storage systems, including Zoned Namespaces (ZNS) and innovative programming schemes designed to mitigate I/O interference. His research group actively pursues hardware-software co-design methodologies to build high-performance, low-latency, and energy-efficient systems for modern, data-intensive workloads.

Prof. Donghyun Kang received his Ph.D. from Sungkyunkwan University and collaborates closely with global semiconductor and cloud storage leaders to bridge the gap between academic theory and industry implementation.

Keynote: Insights Gained from Next-generation Storage Solutions in AI Computing

The explosive growth of Artificial Intelligence (AI) and Large Language Models (LLMs) demands a fundamental shift in data architecture. To fully realize the potential of high-performance AI computing, modern infrastructure requires more than just raw computational power. This keynote addresses the critical storage bottlenecks faced in AI computing environments and shares key insights gained from overcoming these challenges. We will explore the architecture of ultra-fast data pipelines designed to eliminate I/O waiting times, strategies for building cost-effective yet scalable data lakes, and methods for ensuring predictable scalability. Finally, the session will provide a forward-looking roadmap on how hardware and software must converge to power the next generation of AI enterprises.

**-Day 1-
July 6, 2026**

AM: Executive Committee Meeting

**-Day 2-
July 7, 2026**

**09: 00 ~ 10: 00
Keynote Speech**

Prof. Donghyun Kang

Department of Computer Science and Artificial Intelligence at Dongguk University in Seoul,
South Korea

-Day 3- July 8, 2026

Pannel discussion

- 1. Digital Rosetta Stone: Bridging Visual Blueprints and C++ via GAI**
Presenter: Wen Yen Lin
- 2. Energy-Efficient Thompson Sampling for QoS-Aware UAV Base-Station Trajectory Planning**
Presenter: Da-Ren Chen
- 3. Red Teaming Safety Alignment in Federated Instruction Tuning of Large Language Models: From Local Malicious Updates to Global Misalignment**
Presenter: Chieh-Ming Chen
- 4. Risk-Oriented Dynamic Retrieval-Augmented Generation Architecture and Gatekeeper Mechanism**
Presenter: Tsun-Yao Chang

-Day 4- July 9, 2026

AM: Technical Visit
PM: Executive Committee Meeting

-Day 5- July 10, 2026

AM: Technical Visit
PM: Executive Committee Meeting

Information For Paper Presenters

The 16th International Conference on Frontier Computing (FC 2026) will be held in Seoul, Korea, from July 6 to 10, 2026.

Oral Presentation

- Papers will be presented during about 90 minutes of parallel sessions of the conference, each with about 4–5 papers. Each paper will be allocated 15-20 minutes for the presentation and 5 minutes for Q&A.
- Your punctual arrival and active involvement in each session will be highly appreciated.
- Do not forget to prepare and back up your presentation slides or PDF files.

Video Presentation

For authors who are unable to attend the conference in Seoul, Korea, a 15-minute video presentation must be submitted.

The video will be made publicly available on YouTube after the session.

Note

- **Take Care of Your Personal Belongings.** The conference organizers do not assume any responsibility for lost personal belongings.
- **Wear Your Badge:** Always wear your participation badge throughout the conference. Access will be denied to individuals without a badge. Do not discard your badge.
- Please take your badge and meal coupons to the banquet restaurant.

Conference Venue

The FC2026 European forum will be held at the Anette Hotel in Prague.



Location:

- Location: Anette Hotel, Czech Republic
- Address: Svornosti 812/28, 150 00 Praha 5 – Smíchov, Prague, Czech Republic

Access

By Public Transportation

- Take Bus 100 from Václav Havel Airport Prague to Zličín Station, then transfer to Metro Line B and get off at Anděl Station. From Anděl Station, the venue is within walking distance.
- Take Bus 191 from Václav Havel Airport Prague and get off near the Anděl / Na Knížecí area. From there, walk to Anette Hotel.

By Taxi

The fare is approximately CZK 500–800 from Václav Havel Airport Prague to the venue, depending on traffic conditions.

