

IEEE HotI 32 (2025) Day2

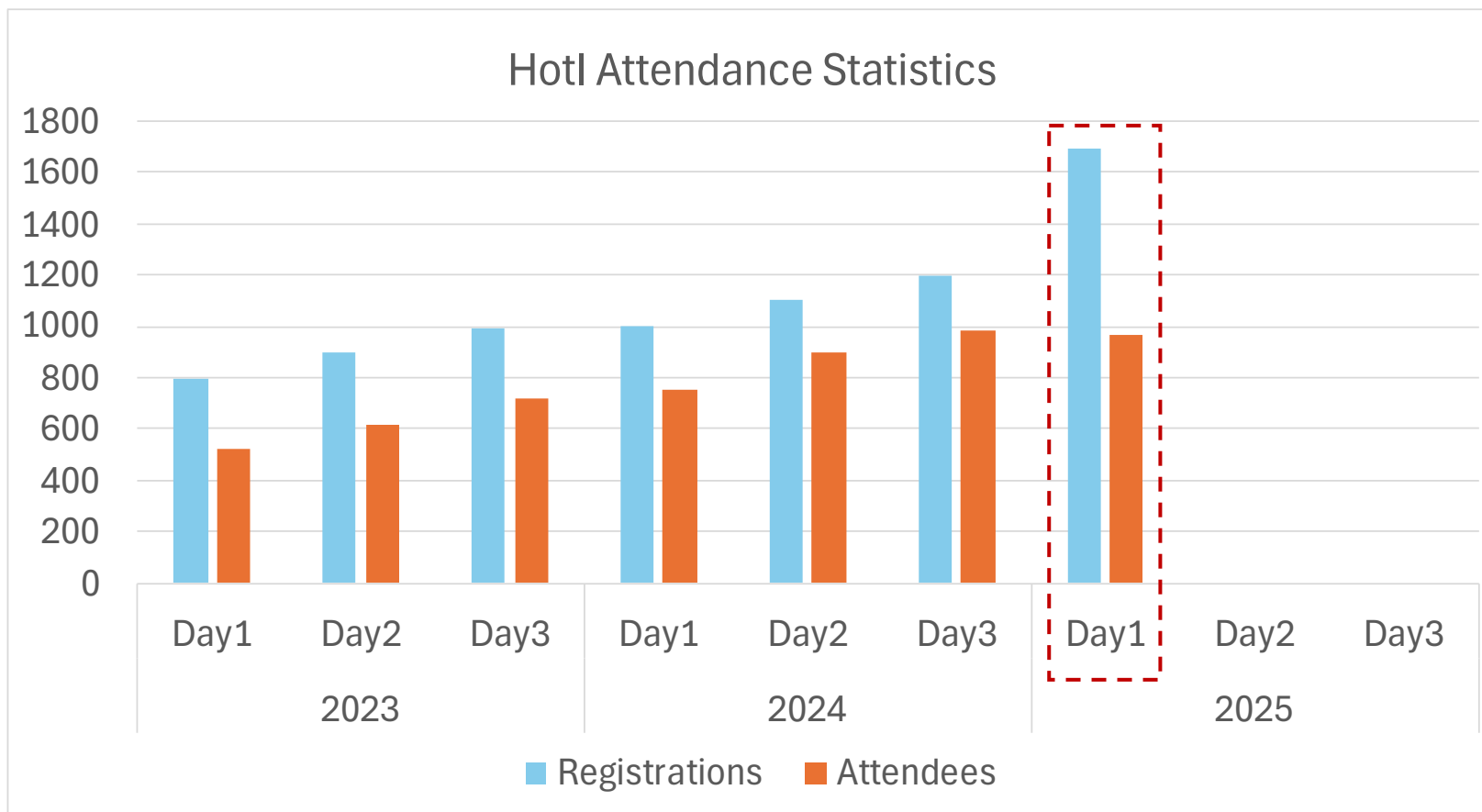
Artem Y. Polyakov
General Chair



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20-22 August 2025 • Virtual, United States

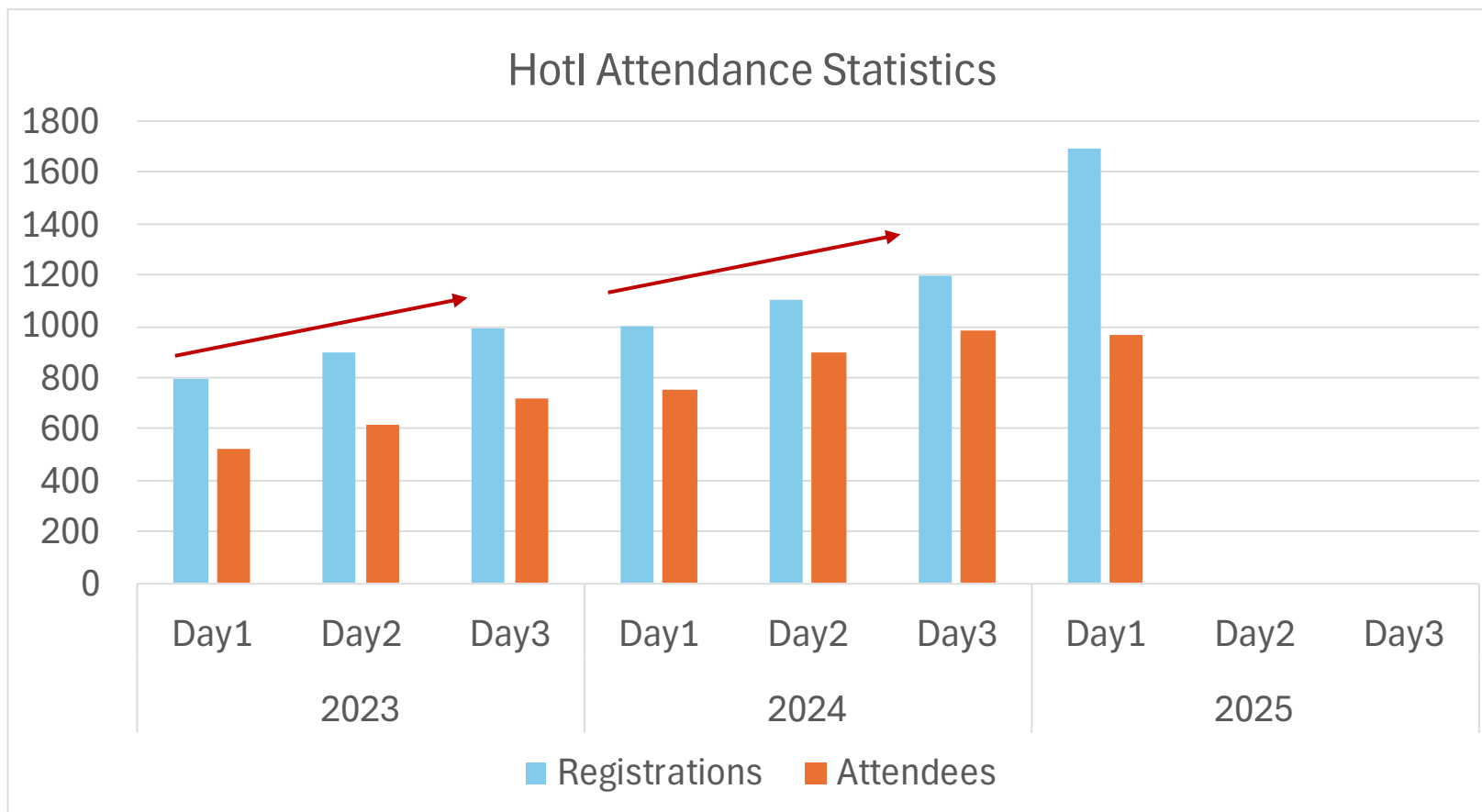
Day 1 Attendance Stats



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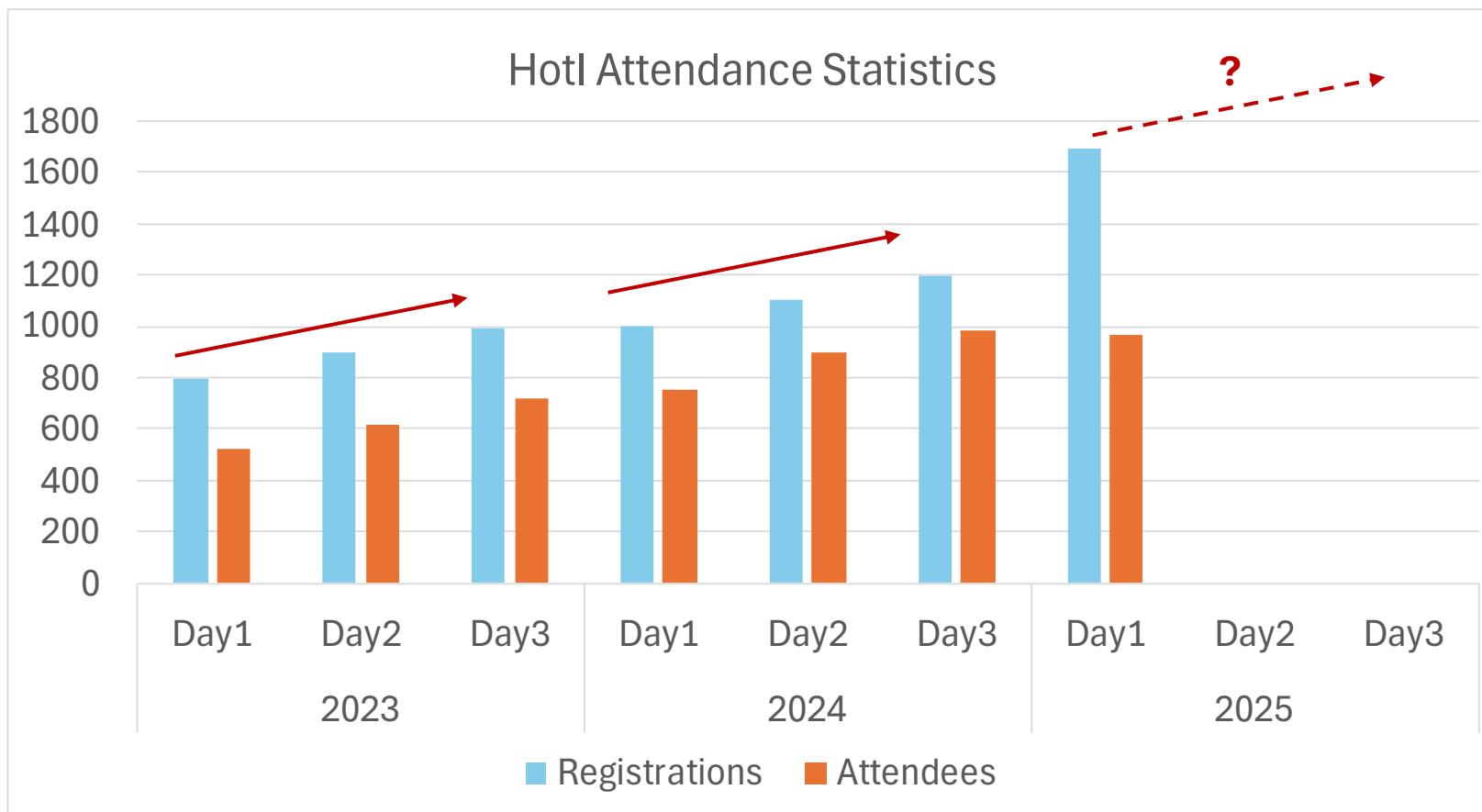
Day 1 Attendance Stats



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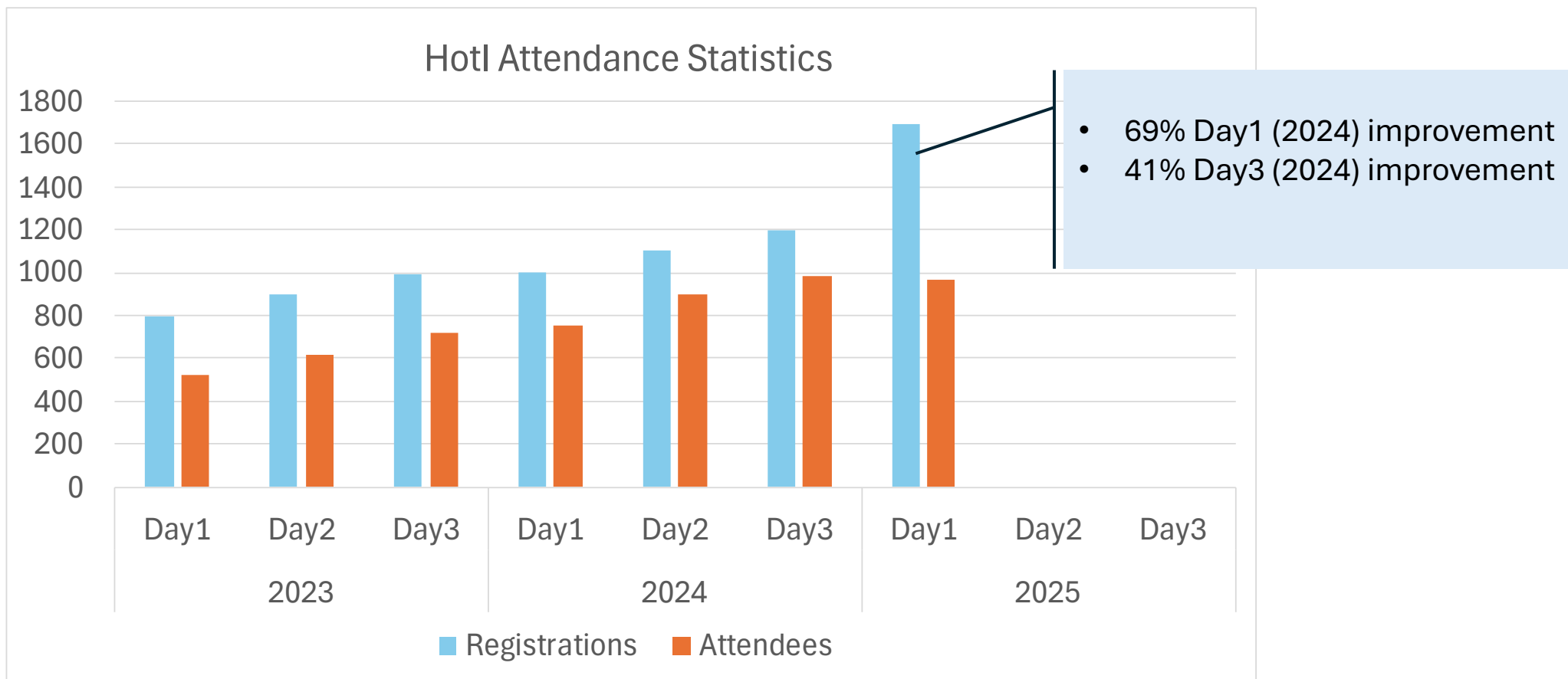
Day 1 Attendance Stats



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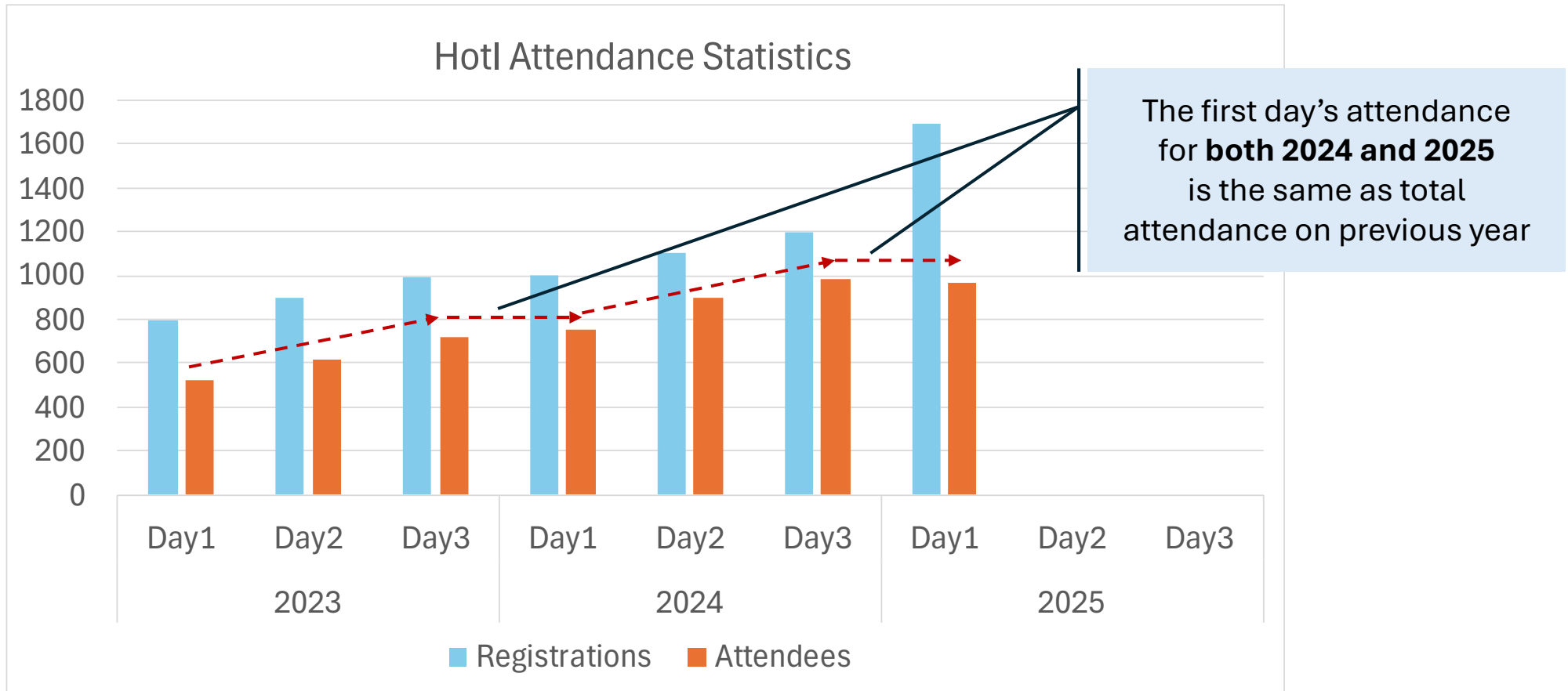
Day 1 Attendance Stats



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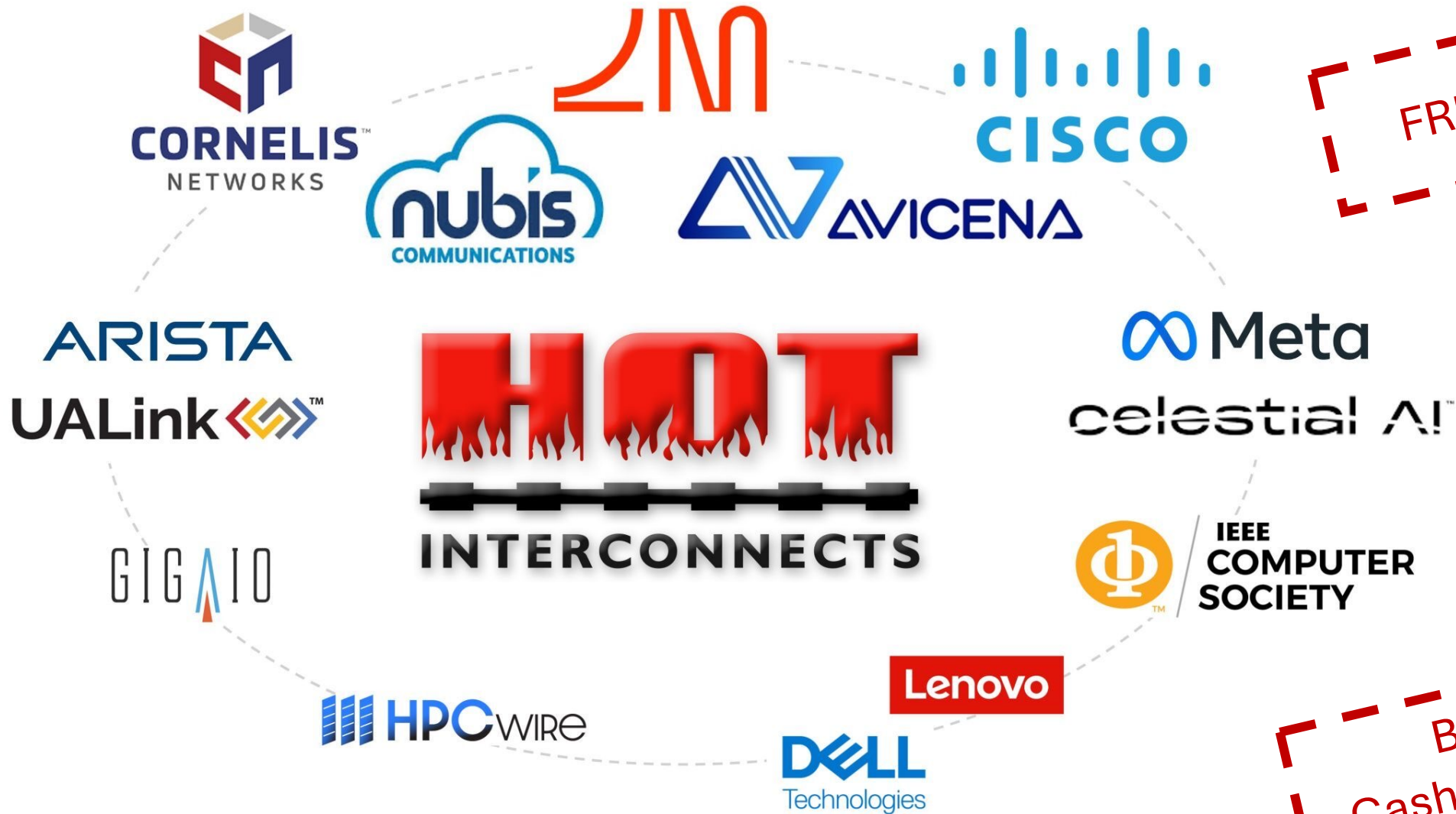
Day 1 Attendance Stats



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Music by:

THE DAYOFFS



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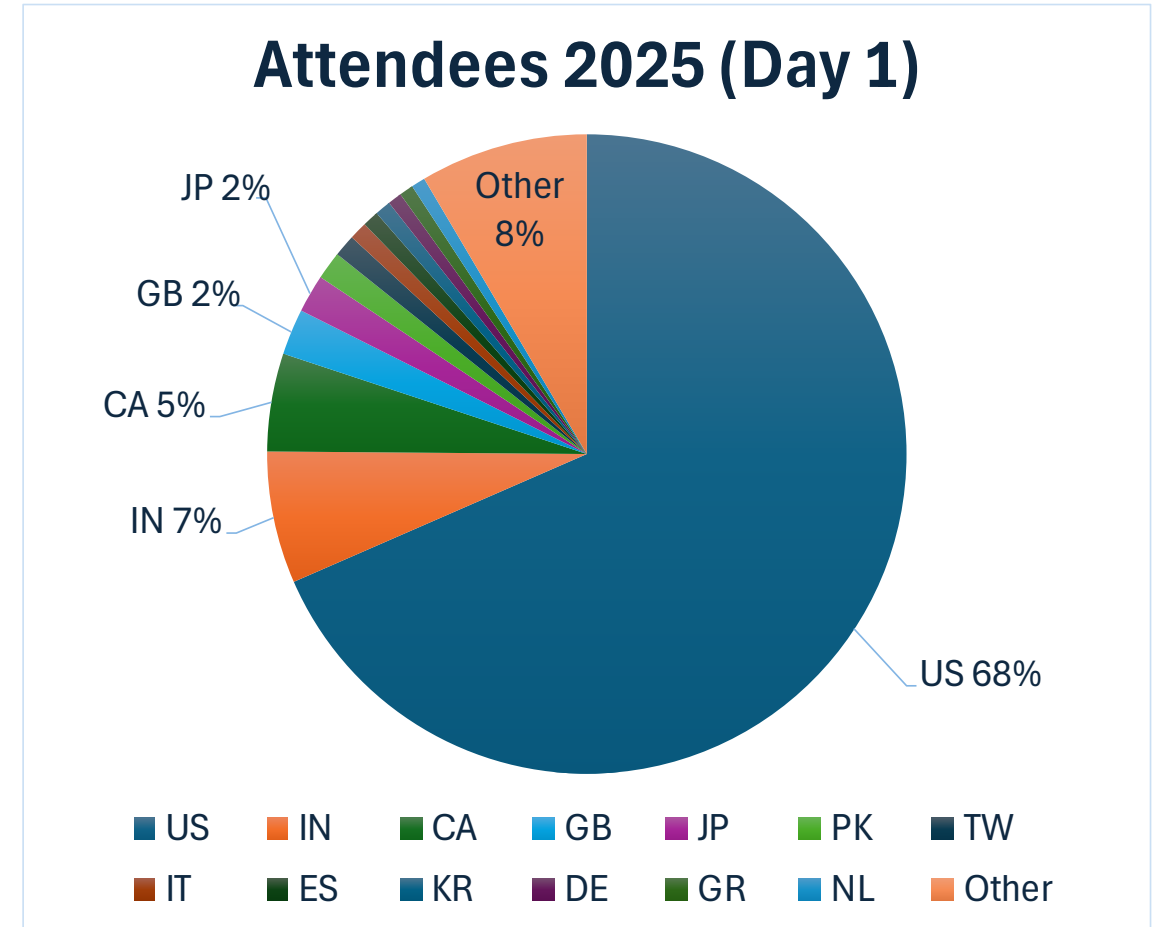
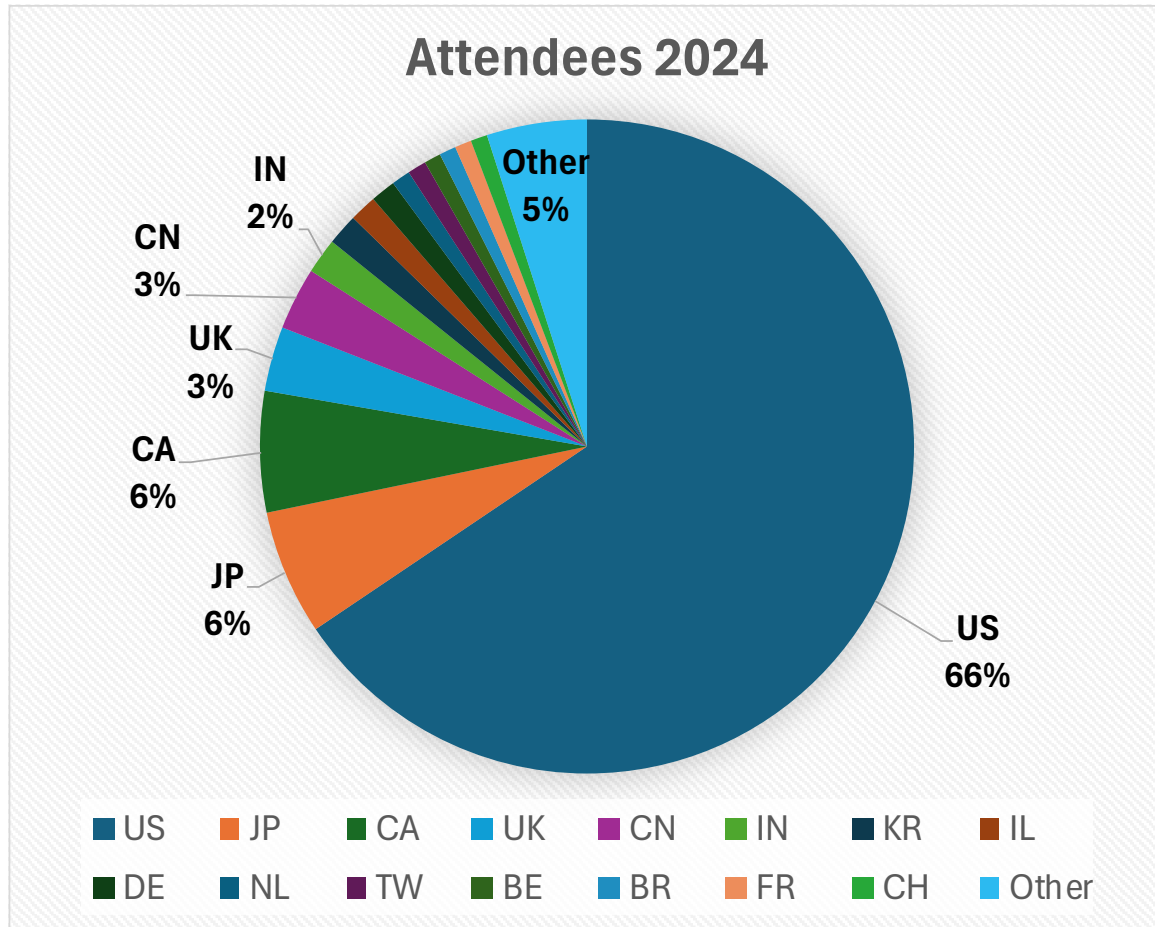
Best Paper
Cash Award - \$1000



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Attendance Stats

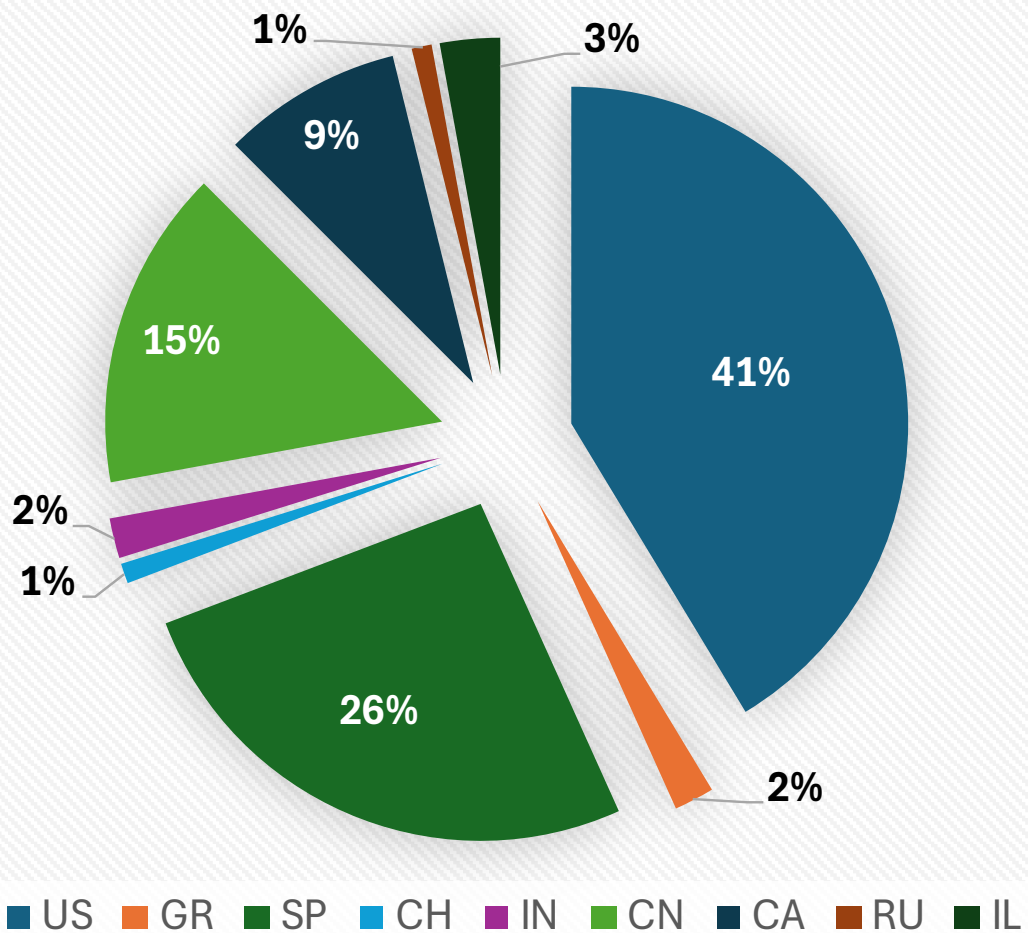


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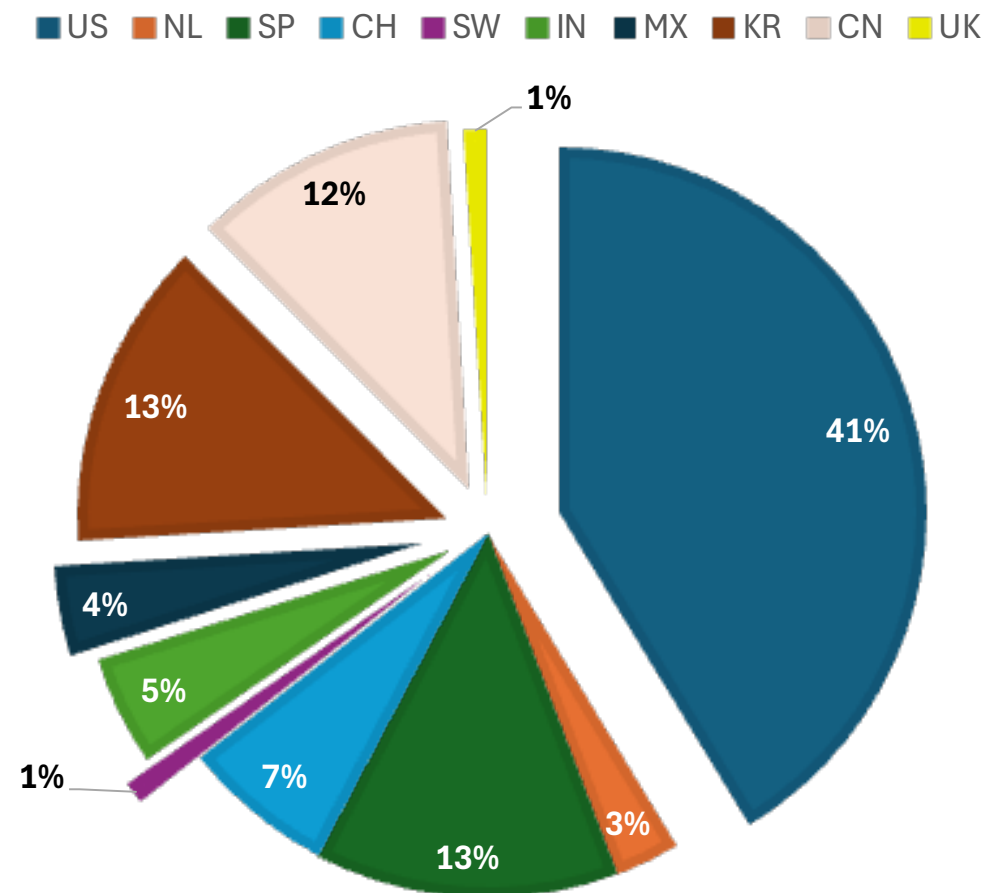
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Submission statistics

Paper authors by countries (2024)



Paper authors by countries (2025)



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Technical program (2025)

- HotI'25 Technical Program Committee (TPC)
 - 31 members
 - From
 - 19 organizations (37% Academia, 63% Industry)
 - France, Japan, South Korea, Spain, Switzerland, and US
- Peer review process
 - 4 reviews/paper
 - 9 Papers accepted
 - 8 full papers
 - 1 short hot-topic paper
 - Overall acceptance rate of 39%



HotI Technical Program Committee

Ferrol Aderholdt (NVIDIA)	Mohiuddin Mazumder (Intel)
Yuichiro Ajima (Fujitsu Limited)	Md Atiqul Mollah (Cornelis Networks)
Ron Brightwell (SNL)	Kaiming Ouyang (NVIDIA)
Ram Sharan Chaulagain (FSU)	Kishore Punniyamurthy (NVIDIA)
Swadesh Choudhary (Intel)	Raghunath Raja Chandrasekar (Amazon Web Services)
Jens Domke (RIKEN)	Adrien Roussel (CEA)
Hans Eberle (NVIDIA)	Galen Shipman (LANL)
Edgar Gabriel (AMD)	Craig Stunkel (NVIDIA)
Pedro Javier Garcia (UCLM, Spain)	Hugo Taboada (CEA)
Letizia Giuliano (Alphawave Semi)	Anant Thakar (Lightmatter)
Mitch Gusat (IBM Zurich)	Keith Underwood (HPE)
Jahanzeb Maqbool Hashmi (NVIDIA)	Vishwanath Venkatesan (NVIDIA)
Hyun-Wook Jin (Konkuk University)	Anna Verner (NVIDIA)
Jithin Jose (Microsoft)	Gwendolyn Voskuilen (SNL)
Shelby Lockhart (AMD)	Xin Yuan (FSU)
Xiaoyi Lu, (UC, Merced)	



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HotI Organizing Committee (OC)

General Chair	Artem Polyakov	<i>NVIDIA</i>
Vice Chair	Sayan Ghosh	<i>Pacific Northwest National Laboratory</i>
PC Chairs	Rohit Zambre	<i>NVIDIA</i>
	David Ozog	<i>Cornelis Networks</i>
Keynote/Panel Chairs	Dan Pitt	<i>Palo Alto Innovation Advisors</i>
	Alan Benjamin	<i>GigaIO</i>
	Pavel Shamis	<i>NVIDIA</i>
	Taylor Groves	<i>Lightmatter</i>
Tutorial Chairs	Amanda Bienz	<i>UNM</i>
	Matthew Dosanjh	<i>Sandia National Laboratories</i>
Online Conference Chairs	Matthew Fricke	<i>UNM</i>
	Nicholas Sarkauskas	<i>NVIDIA</i>
	Pepper Marts	<i>HPE</i>
Web Chairs	Timothy Stamler	<i>NVIDIA</i>
	Yuke Li	<i>UC Merced</i>

Publicity Chairs	Subhadeep Bhattacharya	<i>NVIDIA</i>
	Don Draper	<i>ProPrincipia International Associates</i>
Finance Chairs	Scott Levy	<i>Sandia National Laboratories</i>
	Jim Dinan	<i>NVIDIA</i>
Publication Chairs	Nicola Andriolli	<i>University of Pisa</i>
	Shannon Kinkead	<i>Sandia National Laboratories</i>
Journal Chairs	Joseph Schuchart	<i>Stony Brook University</i>
	Whit Schonbein	<i>Sandia National Laboratories</i>
Sponsor Chairs	Raj Channa	<i>RBC Capital Markets</i>
	Emilio Paolini	<i>Scuola Superiore Sant'Anna</i>
Award Chairs	Ryan Grant	<i>Queen's University</i>
	Yiltan Temucin	<i>AMD</i>



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Jim Dinan (Chair)	NVIDIA
Allen Baum	Esperanto Technologies
Raj Channa	RBC Capital Markets
Don Draper	ProPrincipia International Associates
Madeleine Glick	Columbia University
Manjunath Gorentla Venkata	NVIDIA
Ryan Grant	Queen's University
Mitch Gusat	IBM Research
John Lockwood	Algo-Logic Systems
Fabrizio Petrini	Intel Labs
Dan Pitt	Palo Alto Innovation Advisors
Xinyu Que	IBM Research
Pavel Shamis	NVIDIA



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Yesterday's poll

How did you hear about Hot-I?

Poll ended | 1 question | 125 total responses ⓘ

1. How did you learn about HotI this year?

(Multiple choice)

125/125 (100%) answered

I follow the event on yearly basis (58/125) 46%

LinkedIn (26/125) 21%

From HPC announcement email list (9/125) 7%

X/Twitter (3/125) 2%

Hot Interconnects mailing list (21/125) 17%

It was recommended to me by someone (30/125) 24%

Other (9/125) 7%

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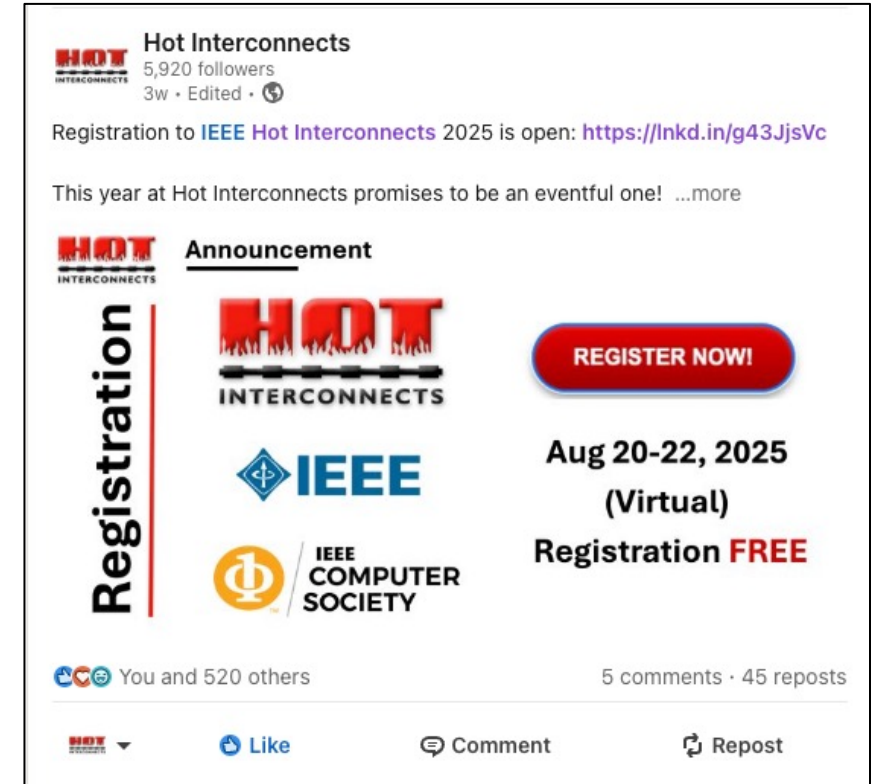
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The screenshot shows a LinkedIn post from the 'Hot Interconnects' page, which has 5,920 followers. The post is an announcement for the IEEE Hot Interconnects 2025 conference. It includes a registration link, the event dates (Aug 20-22, 2025), the format (Virtual), and the registration cost (FREE). The post also features logos for HOT INTERCONNECTS, IEEE, and the IEEE Computer Society. The post has 520 likes and 45 reposts.

Hot Interconnects
5,920 followers
3w • Edited •

Registration to [IEEE Hot Interconnects 2025](https://lnkd.in/g43JjsVc) is open: <https://lnkd.in/g43JjsVc>

This year at Hot Interconnects promises to be an eventful one! ...more

Announcement

Registration

HOT INTERCONNECTS

IEEE

IEEE COMPUTER SOCIETY

REGISTER NOW!

Aug 20-22, 2025 (Virtual)

Registration FREE

You and 520 others

5 comments • 45 reposts

Like **Comment** **Repost**



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Hot Interconnects
5,941 followers
4mo •

Hot Interconnects Best Industry Paper 2024: "Unified Collective Communication (UCC): An Unified Library for CPU, GPU, and DPU Collectives" ...more


IEEE


IEEE COMPUTER SOCIETY

2024 IEEE Symposium on High-Performance Interconnects (HotI 31)

Best Industry Paper Award

presented to

Ferrol Aderholdt, Manjunath Gorentla Venkata, Valentine Petrov, Sergey Lebedev, Devendar Bureddy, Joshua Ladd, Gil Bloch, Mike Dubman, and Gilad Shainer

for the paper

**Unified Collective Communication (UCC):
A Unified Library for CPU, GPU, and DPU Collectives**


Matthew G.F. Dossouh
General Chair


Artem Polyakov
Vice General Chair


71

1 comment • 4 reposts

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🎄 As the festive season unfolds and we bid farewell to an incredible 2024, the [Hot Interconnects](#) Organization Committee takes a moment to relax and recharge in their favorite HotI-branded gear. 😎 ...more





38

4 reposts




IEEE
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HotI 31)

Award

r, Sergey Lebedev,
d Gilad Shainer

(UCC):
PU Collectives


olyakov
al Chair

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We are thrilled to announce that **Hot Interconnects'** LinkedIn page crossed 1K followers! 🎉 ...more





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Introducing the first round of sponsors for **Hot Interconnects 2024.**







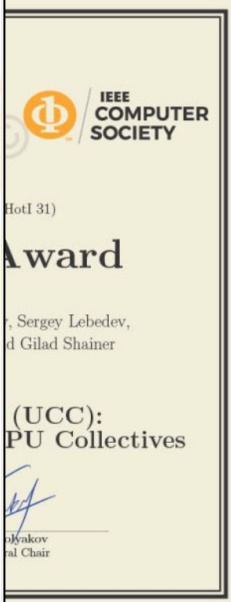
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We're pleased to announce that all the talks from **Hot Interconnects 2024** are now available on **YouTube!**
Check it out here: <https://lnkd.in/g43JjsVc>


A sincere thanks to our Online Conference Chairs, **Matthew Fricke (The University of New Mexico)** and **Shannon Kinhead (Sandia National Laboratories)**, for their dedication in ensuring the success of the online format. Their efforts in capturing and publishing the sessions mean that everyone can now access valuable insights from leading experts in both industry and academia.


Explore the talks on YouTube.
Stay informed!




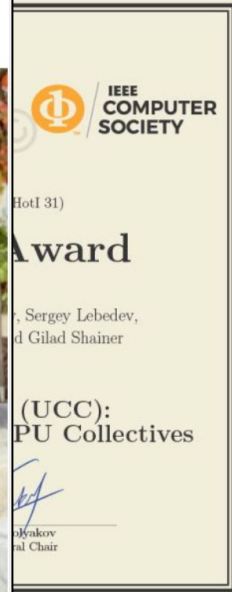
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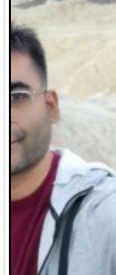


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The proceedings of **IEEE Hot Interconnects 2024** are now available online. You can access the peer-reviewed papers here: <https://lnkd.in/g7Qv45vq>

Thanks to our Publications Chairs **Nicola Andriolli** (**Università di Pisa**) and **Jan Ciesko** (**Sandia National Laboratories**), as well as the **IEEE Computer Society** team for their timely work!

Enjoy the scientific papers from this year's conference!

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6mo • 

Welcome to **Hot Interconnects** 2025!

As we step into the 32nd edition of Hot Interconnects, we ...more



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Day2 ... let's start!



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Attendee Information

Questions and Answers

are conducted via SLACK!

Step1. Find the link to join in Zoom Lobby (top-right corner)



<http://bit.ly/4lBoSLc>

Early access to proceedings

<https://hoti.org/program.html>

Password: **hoti_proceedings_2025**

To Interact with our Presenters Join
Slack

Show more

Slack Q&A

Step2. Individual channel for each talk

▼ Channels ▼

day1-09-30-keynote-1-now-in-focus-the-fifth-genai-ep...

day1-10-30-diamond-sponsor-talk-lightmatter-transfor...

day1-10-45-diamond-sponsor-talk-cornelis-reimagining-...

day1-11-00-p1-bittide-control-time-not-flows-2025

day1-11-00-p2-deadlock-free-routing-for-full-mesh-net...



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HotI Day2

- **Keynote 2**
“Evolving inter-connect fabric and SDN in the cloud to meet the needs of AI”
Deepak Bansal (Microsoft)
- **Sponsor talks session:** Avicena, Arista, GigaIO
- **Technical Paper Session C:**
Interconnect Software – Runtimes & Workloads
- *Lunch*
- **Invited Talk Session:** Next Gen Interconnects
 - Ultra Ethernet for next-generation AI and HPC workloads, Torsten Hoefer (ETH Zurich)
 - Building Custom AI Infrastructure with NVLink Fusion, Krishnan Geeyarpuram (NVIDIA)
- **Sponsor talks session:** UALink, Celestial AI, Meta
- **Technical Paper Session D:** Scale-up Interconnects
- **HotI Awards & Closing Remarks**



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