



THE FOURTH D2I COMPETITION · D2I @ IEEE ISIT 2026

THE STILL MIRROR

A competition at the intersection of information theory & machine learning

Held in conjunction with the **IEEE International Symposium on Information Theory**, with final presentations & prize ceremony at IEEE ISIT 2026 in Guangzhou, China.

Website: <https://data-to-information.github.io/isit2026/>

Online · May 24 – June 24, 2026 · Finals · July 2, 2026 · Guangzhou

COMPETITION TASKS

RIS & mutual information · BRISC dataset

Task 0 · Channel Exploration

- Predict CSI across configurations, frequencies, positions
- Baseline warm-up · Frobenius norm

Task 1 · Mutual Information Estimation

- Estimate MI of RIS-assisted channels from CSI
- Scored by RMSE & Spearman correlation

Task 2 · Phase & Beamforming Optimization

- Jointly design 256-element RIS phases & beamforming
- Maximize achievable rate across positions

Task 3 · Secret Key Generation

- Alice–Bob key generation under RIS
- Hamming distance to true key · beat Eve

PRIZE POOL

contributed by ITSoc & Techphant

\$5,000



**IEEE
Information
Theory Society**



FINAL BREAKDOWN ANNOUNCED AT LAUNCH

KEY DATES · IEEE ISIT 2026 · Guangzhou, China · June 28 – July 3, 2026

Apr 24

Registration
opens

May 24

Teams announced
& live

Online phase

May 24 –
Jun 24

Jun 24

Final
submission

Jul 2

Finals &
prize ceremony



**IEEE IT Society
Membership**

Required * at least one member



Teams up to 5

Individual sign-ups matched into
teams by organizers



Fully Remote-Friendly

Finalists may present in person
or remotely



Open to All Career Stages

Academia, industry, government;
students encouraged

Register Your Team · Registration opens April 24, 2026

D2I @ IEEE ISIT 2026 · Click [here](#) to register — Kaggle platform & Slack workspace coming soon – stay tuned

ORGANIZING COMMITTEE · IEEE IT Society Student & Outreach Committee

Alejandro Lancho (UC3M, Spain) · Khac-Hoang Ngo (LiU, Sweden) · Stefano Rini (NCTU, Taiwan)

Student Leads: Mattia Piana (U. Padova) · Farhad Mirkarimi (McGill) · Markus Heinrichs (U. Cologne) · Nam Nguyen (Oregon State)

Sponsored by the **IEEE Information Theory Society** and the **IEEE ITSoc Guangzhou Chapter** (special thanks to Li Chen (Sun Yat-Sen University) and Shao-Lun Huang (Tsinghua University)). With the support of **Techphant Consulting Group**

