



NEWSLETTER

24.09.2026

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Executive Summary

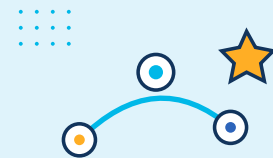
This document represents the third newsletter for the CAPE project. Within this newsletter, you will find essential updates on the project, key changes that have taken place, dissemination activities, and various other significant highlights. This document aims to keep you informed of the progress and developments of the CAPE project.

Status of the CAPE Project

Highlights from the Dissemination Activities

Highlights from the Exploitation Activities

We hope this newsletter will provide valuable insights into the current state of the project and its ongoing progress.



Status of the CAPE Project

Initiated under the ITEA 2022 call of the EUREKA program, the CAPE project earned the EUREKA LABEL after successfully completing the international Project Outline and Full Project Proposal stages. The consortium brings together 15 companies from 5 countries. Following the national application processes, Turkey, Portugal and South Korea secured formal public funding, while partners from Singapore and Romania proceeded as self-funded. The project has reached its 28th month of active development. Following the first-year review on April 8, the project's academic, scientific and technical footprint expanded during the second phase. To date, the consortium has finalized and submitted 11 key deliverables.



Milestone Focus: Successful Completion of the 2nd ITEA Review

Building upon the strong foundation of the first year, a major highlight of the recent period was the official 2nd ITEA Project Review. The CAPE consortium passed this crucial evaluation with highly positive feedback from the ITEA Board and international reviewers. During the review sessions, partners showcased cross-border synergy, technical alignment and co-development breakthroughs. Reviewers commended the project's adherence to the global timeline, the maturity of software components and the clear path toward upcoming real-world pilot applications.



Strengthening Collaboration Through International Consortium Meetings

A key driver behind CAPE's progress has been the strong collaboration established among consortium partners across multiple countries. During the reporting period, the consortium convened in two days of face-to-face meetings, bringing together technical experts, researchers, business stakeholders and project managers to review achievements, align development activities and define the roadmap for upcoming phases. The meetings focused on work-package progress, technical integration, AI-driven cognitive services, recommendation systems, privacy-preserving technologies and preparation for upcoming pilot implementations.



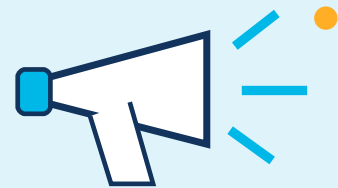
Beyond the technical discussions, interactive workshops, live demonstrations and strategic planning sessions strengthened alignment between research objectives, technological development and business exploitation strategies.



Highlights from the Dissemination Activities

International Dissemination Event - Gebze Technical University

As part of the CAPE consortium meeting hosted in Türkiye, a dedicated dissemination event was organized to strengthen connections between international partners and the Turkish research and innovation ecosystem. Representatives from industry and academia across Türkiye, Portugal and South Korea introduced their organizations, shared expertise and explored future collaboration opportunities. Presentations covered artificial intelligence, smart workplaces, predictive monitoring systems, digital transformation and cognitive technologies. Partners included İNOSENS, KAIST, Smartcore, IDB, ISEP/GECAD, FTP Soluções Empresariais, Doğuş Teknoloji, TAV Technologies and KoçSistem.



Scientific Dissemination Highlights

KAIST

- ICTC 2025 - International Conference on ICT Convergence

ISEP & FTP

- 2025 Sixth International Conference on Intelligent Data Science Technologies and Applications (IDSTA)
- MFFER Multimodal Federated Learning based Facial Emotion Recognition
- Local vs Server Differential Privacy Analysis Regarding the Trade-off Between Security and Recommendation Quality

SIU 2026 - 34th IEEE Conference on Signal Processing and Communications Applications

As part of CAPE's scientific dissemination activities, İNOSENS organized a dedicated special session titled "AI and Dynamic Sensing for Security and Collaboration in Smart Environments." CAPE partners Teknasyon, FTP and KAIST presented their latest research, strengthening international academic visibility and cross-border scientific collaboration.

15:30-17:00

Özel Oturum

Özel Oturum: Akıllı Ortamlarda Güvenlik ve İşbirliği için Yapay Zeka ve Dinamik Algılama

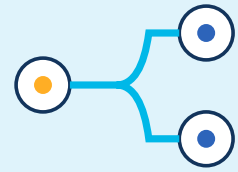
Oturum Başkanı: Dr. Sibel Malkoş (Siemens)

Sıra	No	Bildiri	Yazarlar
1	248	Gerçek Dünya Müşteri Destek Diyalogları için Maliyet Etkin Hibrit İnsan-AI Devir Teslim Sistemi: Yoğunluk Tabanlı Anlamsal Kümeleme Yaklaşımı	Akın Gündüz (TEKNASYON); Muhammed Berk Onder (TEKNASYON); Nureşan Okur (TEKNASYON); Mehmet Fatih Amasyalı (Yıldız Teknik Üniversitesi)
2	627	Havalimanları için Lidar Tabanlı İnsan Tespiti	Gökçe Keskin (İnosens); İsmail Uzun (İnosens); Yakup Genç (Gebze Teknik Üniversitesi); Selim Sarı (TAV Teknoloji)
3	101	Federated Learning for Hybrid Recommendation Systems	Filipe Santos (Polytechnic of Porto); Joao Cruz (FTP/PORTO); João Gaspar (FTP/PORTO); Tiago Pereira (Polytechnic of Porto); Diogo Gonçalves (Polytechnic of Porto); Diogo Martinho (Polytechnic of Porto); Gorette Marreiros (Polytechnic of Porto)
4	92	KASIF: İHA ile Nesne İşaretleme ve Keşif Algoritmalarının Geliştirilmesi	Doğukan Yalçın (Yıldız Teknik Üniversitesi); Furkan Çakmak (Yıldız Teknik Üniversitesi)
5	625	Havalimanları için mmWave Radar Tabanlı Kişi Hareket Tespiti	Gökçe Keskin (İnosens); İsmail Uzun (Siemens); Yakup Genç (Gebze Teknik Üniversitesi); Selim Sarı (TAV Teknoloji)
6	96	Coordination Framework with Reliability-Aware Aggregation for AI Prediction Disagreements	Hyeonseok Seo (KAIST); Junghyun Lee (KAIST); Jun Kyun Choi (KAIST)



SIU 2026 - CAPE Research Contributions

Teknasyon's paper, “Cost-Efficient Hybrid Human-AI Handoff System: A Density-Based Semantic Clustering Approach for Customer Support Dialogs in the Wild”, addresses when a customer inquiry should be handled by an AI assistant and when it should be escalated to a human expert. The approach uses Large Language Models and unsupervised machine learning to classify customer requests according to complexity and risk level, enabling routine inquiries to be resolved by AI while sensitive, complex or high-risk cases are directed to human operators.

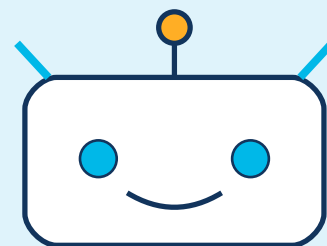
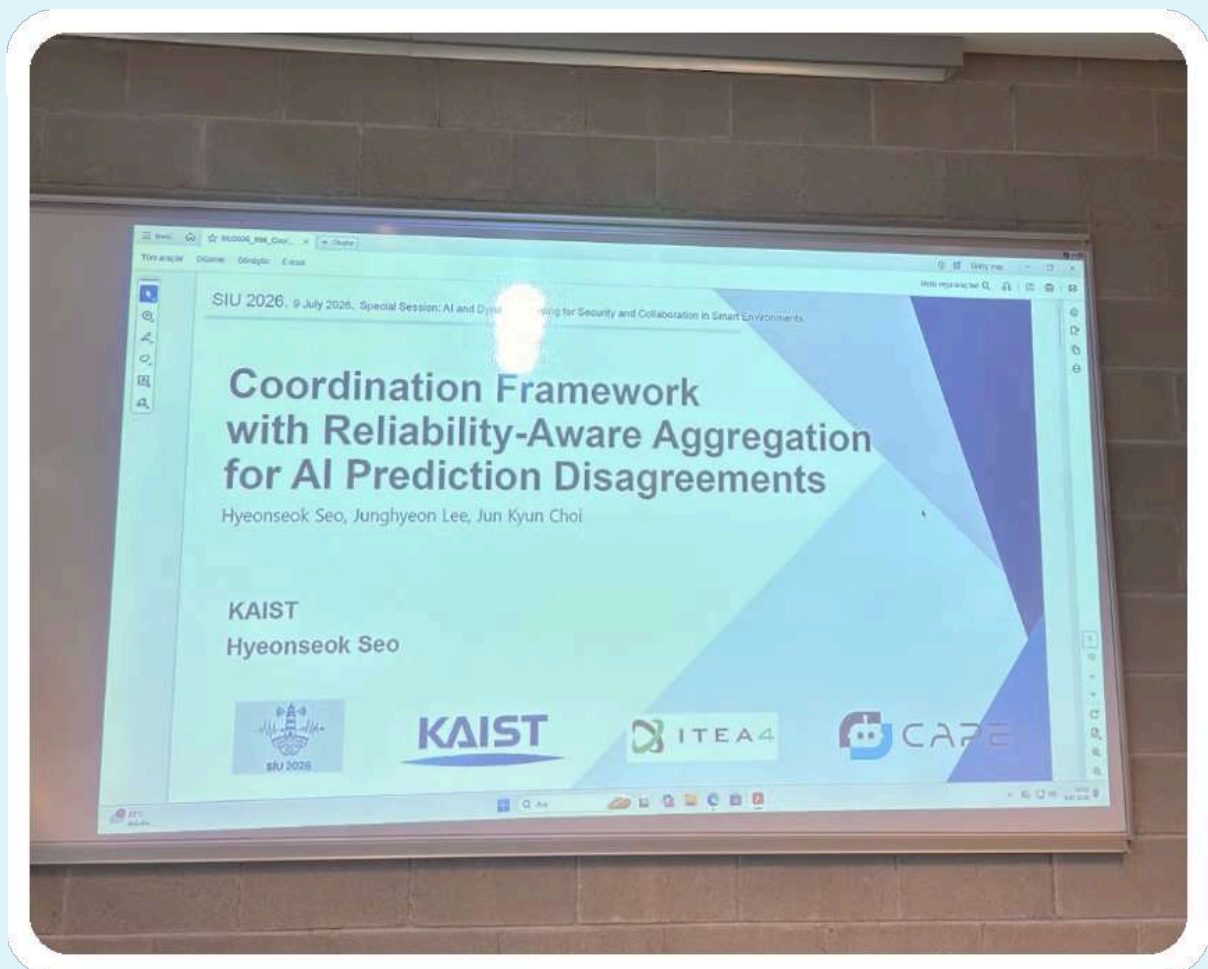


FTP contributed with “Federated Learning for Hybrid Recommendation Systems”, presenting research outcomes developed within the CAPE project and reinforcing collaboration between ISEP/GECAD, FTP and the wider consortium.



KAIST Research Contribution

KAIST joined the SIU 2026 special session with the paper “Coordination Framework with Reliability-Aware Aggregation for AI Prediction Disagreements”, further showcasing the strength of international research collaboration within the CAPE consortium and its continued contribution to the global academic community.



Highlights from the Exploitation Activities

INOSENS

- Turkiye Innovation Week
- İTÜ CS Department Visit

BEIA

- Gotech World 2025
- InnoComp 2025 - Innovative Perspectives on Computer Science and Engineering Conference
- CAPE - promote the project through BEIA's channels

ISEP & FTP

- Porto - ISEP & FTP Event

IDB

- Korea Eureka - KIAT



CAPE

Cognitively Smart Assistant in Phygital Environment