



*Robust Learning & Reasoning for Complex
Event Forecasting*

Athens, 20 October 2022

PRESS RELEASE

European project EVENTFLOW project kicks-off in Athens, Greece

A new European project funded under the Horizon Europe funding framework on the Artificial Intelligence and Robotics domain kicked off on 13 and 14 October 2022 with the name **EVENTFLOW: Robust Learning and Reasoning for Complex Event Forecasting**.

EVENTFLOW is a three year-long European Research project which aims to develop hybrid learning techniques for complex event forecasting, which combine scalable deep learning with logic-based learning and reasoning into neuro-symbolic forecasting models. The envisioned methods will combine (i) neural representation learning techniques, capable of constructing event-based features from streams of perception-level data with (ii) powerful symbolic learning and reasoning tools, that utilize such features to synthesize high-level, interpretable patterns of critical situations to be forecast. Crucial in the EVENTFLOW approach is the online nature of the learning methods, which makes them applicable to evolving data flows and allows to utilize rich domain knowledge that is becoming available progressively, over time.

EVENTFLOW will be evaluated on three challenging **use cases** related to **oncological forecasting in precision medicine, safe and efficient behaviour of autonomous transportation robots in smart factories and reliable life cycle assessment of critical infrastructure**.

The partnership consists of six partners from five countries: Coordinator [Netcompany-Intrasoft](#) (Belgium), the [National Centre for Scientific Research Demokritos](#) (Greece), [ATHENA Research & Innovation Information Technologies](#) (Greece), the [Barcelona Supercomputing Center](#) (Spain), the [German Research Centre for Artificial Intelligence](#) (Germany) and [Ekso](#) (Italy).

Notes to Editors:

- The project logo and photos are attached in this PR for your use.
- For more information contact the project's Head of Communications Elena Galifianaki, NCSR Demokritos, egalif@iit.demokritos.gr
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