Periklis Mantenoglou
Curriculum Vitae

Education

2019 - 2024	**PhD** in the Department of Informatics and Telecommunications of the National & Kapodistrian University of Athens. **Thesis Title**: "Reasoning over Complex Temporal Specifications and Noisy Data Streams".
2014 - 2019	**Integrated Master's Degree** in Electrical & Computer Engineering at the National Technical University Of Athens. **GPA**: 9,04/10. **Thesis Title**: "Online Probabilistic Interval-based Event Calculus".

Experience

2025 - now	**Postdoctoral researcher** at MPI lab, Örebro University.
2024	**Postdoctoral researcher** at CER group, NCSR "Demokritos".
2019 - 2024	**Research associate** at CER group, NCSR "Demokritos".
2018	**Internship**: Development of a Chess Strategy Recognition System at CER group, NCSR "Demokritos".

Publications

2025	*Mantenoglou P. and Artikis A.*, **Temporal Specification Optimisation for the Event Calculus.** In 39th AAAI Conference on Artificial Intelligence (AAAI).
2024	*Andrienko N., Andrienko G., Artikis A., Mantenoglou P. and Rinzivillo S.*, **Human-in-the-Loop: Visual Analytics for Building Models Recognising Behavioural Patterns in Time Series.** In IEEE Computer Graphics and Applications (CG&A).
	Mantenoglou P., **Extending the Range of Temporal Specifications of the Run-Time Event Calculus.** In 31st International Symposium on Temporal Representation and Reasoning (TIME).
2023	*Mantenoglou P., Artikis A. and Paliouras G.*, **Online Event Recognition over Noisy Data Streams.** In International Journal of Approximate Reasoning (IJAR).

	Mantenoglou P., Pitsikalis M. and Artikis A., **Complex Event Recognition with Allen relations.** In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR).
	Mantenoglou P., **An Event Calculus for Run-Time Reasoning (Extended Abstract).** In 30th International Symposium on Temporal Representation and Reasoning (TIME).
2022	*Mantenoglou P., Pitsikalis M. and Artikis A.*, **Stream Reasoning with Cycles.** In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR).
	Mantenoglou P., Pitsikalis M. and Artikis A., **Towards Stream Reasoning with Deadlines.** In 38th International Conference on Logic Programming (ICLP), Technical Communications.
2021	*Mantenoglou P., Pitsikalis M. and Artikis A.*, **Towards Streams of Events with Temporally-Constrained Effects.** In 37th International Conference on Logic Programming (ICLP), Technical Communications.
2020	*Mantenoglou P., Artikis A. and Paliouras G.*, **Online Probabilistic Interval-based Event Calculus.** In 24th European Conference on Artificial Intelligence (ECAI).

Talks

2024	**Can computers understand what is happening? An introduction to complex event recognition.** In 5th ACM Europe Summer School on Data Science. Course by A. Artikis & P. Mantenoglou.
2023	**Stream Reasoning with the Run-Time Event Calculus.** In University of Oslo (UiO). Invited Talk.
	Probabilistic Interval-based Event Recognition. In Norwegian Computing Center (NR). Invited Talk.
	Complex Event Recognition with Allen Relations. In 20th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.
2022	**Online Reasoning under Uncertainty with the Event Calculus.** In 9th Workshop on Probabilistic Logic Programming (PLP). Invited Talk by A. Artikis & P. Mantenoglou.
	Stream Reasoning with Cycles. In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Paper Presentation.
	Towards Stream Reasoning with Deadlines. In 38th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.
	Optimisation Methods for Complex Event Recognition. In 19th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.
2021	**Stream Reasoning with the Run-Time Event Calculus.** In Ludwig Maximilian University of Munich. Invited Talk by P. Mantenoglou & A. Artikis.
	Towards Streams of Events with Temporally-Constrained Effects. In 37th International Conference on Logic Programming (ICLP). Paper Abstract Presentation.
2020	**Online Probabilistic Interval-based Event Calculus.** In 24th European Conference on Artificial Intelligence (ECAI). Paper Presentation.

Online Probabilistic Interval-based Event Calculus. In 17th International Conference on Principles of Knowledge Representation and Reasoning (KR). Doctoral Consortium.

R&D Projects

2023 - now	**CREXDATA**: Critical Action Planning over Extreme-Scale Data.
2023	**ENEXA**: Efficient Explainable Learning on Knowledge Graphs.
2019 - 2022	**INFORE**: Interactive Extreme-Scale Analytics and Forecasting.

Teaching Assistant

2023	Undergraduate Course on **Logic Programming**.
2022	Undergraduate Course on **Logic Programming**.
	Undergraduate Course on **Principles of Programming Languages**.
2021	Undergraduate Course on **Logic Programming**.
	Undergraduate Course on **Object-Oriented Programming**.
2020	Undergraduate Course on **Data Structures**.

Courses & Seminars I Attended

2024	**ESSAI & ACAI**: 2nd European Summer School on AI & 21st Advanced Course on AI.
2021	**Prometheus**: An Innovative Tech Transfer Program in Greece.

Scholarships

2022 - 2024	**Hellenic Foundation for Research & Innovation**: Scholarship for PhD Candidates.

Software

I am maintaining the following software:
  ▷ **oPIEC**: an open-source implementation of the Event Calculus for reasoning over noisy data streams ○.
  ▷ **RTEC**: an open-source Event Calculus dialect optimised for data stream reasoning ○.
  ▷ **SimLP**: a similarity metric for logic programs ○.

Languages

  ▷ **Greek**: Native Language.

▷ **English**: C2, Certificate of Proficiency in English, University of Cambridge.
▷ **French**: B2, Certificat Pratique de Langue Française, Université Paris-Sorbonne.

Contact

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