





Objective:

Rewarding emerging informatics researchers and disseminating excellent research

2023 Award Committee

- Elisabetta Di Nitto, Politecnico di Milano (Chair)
- Jean Marc Jézequel, IRISA / University of Rennes
- **Gregor Engels**, Universität Paderborn
- Harald Gall, University of Zurich
- Dimka Karastoyanova, University of Groningen





About this year's Award

- A total of 19 nominations received;
- Nominations concerned the best dissertation from each participating institution, developed in the academic years 2021-2022 or 2022-2023, but on or before December 31, 2002;
- Each nominating institution had to be an IE member.
- Two phrases of review by Award Committee:
 - 1st Phase: 7 dissertations shortlisted to second phase
 - 2nd Phase: **1 winner and 4 runners-up selected**





Award Winner receives

- a prize of 3,000 EUR,
- sponsorship to attend ECSS 2023,
- an award plaque,
- an invitation to publish the winning thesis in Springer's Computer

Science program.

Award Sponsor





Award Runners-up (alphabetical order):

• Salvatore Di Girolamo, ETH Zurich with dissertation

«Application-driven network and storage optimizations»

• Sebastian Hofstätter, TU Wien with dissertation

«Optimizing the Cost-Effectiveness Tradeoff in Neural Ranking»

- Shiwei Liu, Eindhoven University of Technology with dissertation
 «Sparse Neural Network Training with In-Time Over- Parameterization»
- Francesco Pierri, Politecnico di Milano with dissertation

«Characterization and detection of disinformation spreading in online social networks»



Winner

Pepa Atanasova

University of Copenhagen, Denmark

with winning dissertation

«Accountable and Explainable Methods for Complex Reasoning over Text»



Accountable and Explainable Methods for Complex Reasoning over Text

Pepa Atanasova Informatics Europe 2023 Best Dissertation Award

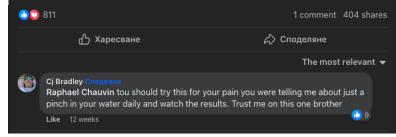
Supervisors: Isabelle Augenstein, Jakob Grue Simonsen, Christina Lioma 24 October 2023



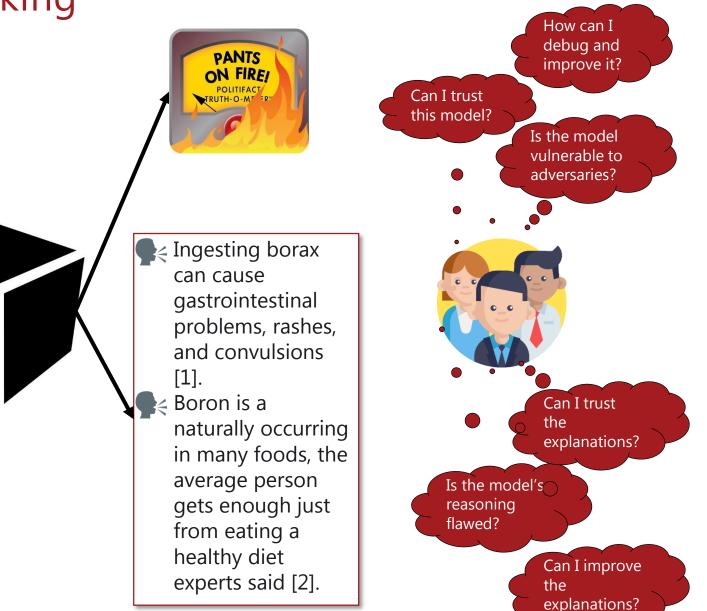


XAI for Automated Fact Checking

Borax can be used to treat a variety of health problems, including joint pain, kidney stones, osteoporosis and chronic fatigue.



Atanasova, et al., 2020 "Generating Fact Checking Explanations."



XAI for Complex Reasoning Tasks



Reveal critical vulnerabilities of fact checking models. Make methodological contributions that improve the reasoning of machine learning models. AI is not a black box. It's a window into the future, but only if we invest in making that window clear, understandable, and accountable.

It is through transparency that we ensure responsible progress.

Thank you!

