Job details

Category: 2 Postgraduate or Postdoc positions within the EU H2020 Project TRAPEZE (TRAnsparency, Privacy and security for European citiZEns)

Department: Engineering / Computer Science
D.I.E.T.I. (Dipartimento di Ingegneria Elettrica e Tecnologie dell'Informazione)
Università degli studi di Napoli Federico II

Supervisors and contacts: Piero Bonatti (pieroandrea.bonatti@unina.it) and Luigi Sauro (luigi.sauro@unina.it)

Duration: TRAPEZE ends on August 31, 2023

Qualifications: Applicants must have a Master Degree or a PhD in Computer Science, Computer Engineering or a related field.

Deadline: Applicants should send an email to the supervisors by May 1, 2021

Title

Development of OWL2 profiles and reasoners for data usage policy validation and GDPR compliance checking

Description

D.I.E.T.I. is recruiting two Postgraduate/Postdoctoral Fellow from all areas of computer science to take part in the H2020 project TRAPEZE.[1] The aims of the scholarships are the development of: (i) a low-complexity OWL2 profile for encoding data usage policies, data subjects' consent, and objective fragments of the GDPR; (ii) a real-time reasoner for checking policy compliance; (iii) an explanation facility for compliance decisions. The reasoner for compliance checking will be integrated with a blockchain platform (in order to implement tamper-proof sticky policies), and with a Big Data architecture (for large scale, real time compliance checking).

The possible contributions expected from these positions range from foundational results in knowledge representation and explainable AI, to the engineering of high-performance reasoners and tamper-proof compliance checkers.

The scholarship holders will have the opportunity to enhance their scholarly development by embarking upon a research on cutting-edge automated reasoning techniques, interacting with the major companies that participate in

---

1   https://trapeze-project.eu/

TRAPEZE, and taking advantage of the long-standing research experience of the supervisors in the areas of Automated Reasoning, Security, and Privacy.

Location

Located in one of the most vibrant cities in Italy, the University of Naples Federico II is a eight centuries-old public university with a diverse student body and a strong tradition of support for difference and equality.