

Laboratorio ASTREA: Report Attivita Scientifica anno 2021

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Abstract

Questo documento riporta le principali attività condotte dal laboratorio ASTREA nell'anno solare 2021.

1 Overview

Il laboratorio Automated Strategic Reasoning (ASTREA) fa parte del Dipartimento di Ingegneria Elettrica e delle Tecnologie dell'Informazione ed ha come responsabile scientifico il Prof. Aniello Murano. Negli anni 2019-2021, il laboratorio ha potuto contare sull'apporto scientifico di un nutrito gruppo di ricercatori, studenti di dottorato e tesisti. A causa dell'emergenza COVID, tuttavia, non e' stato possibile organizzare meeting in presenza, ne' fare visita a gruppi di ricerca all'estero come e' invece avvenuto nelle annualita' precedenti. Sono stati tuttavia organizzati meeting di gruppo a cadenza settimanale online che si sono rivelati di enorme utilita' per la realizzazione dell'attivita' di ricerca programmata. Il laboratorio ha lavorato in stretto contatto con gruppi di ricerca esteri, tra i quali si riportano quelli di Moshe Y. Vardi della Rice University, Alessio Lomuscio e Francesco Belardinelli dell'Imperial College di Londra, Michael Wooldridge della Oxford University, Benjamin Aminof e Florian Zueleger della Wien University, Giuseppe De Giacomo dell'Universita' La Sapienza di Roma, Wojtek Jamroga della Polish Academy of Sciences, Sasha Rubin dell'University of Sydney, Sophie Pinchinat, Francois Schwarzenruber e Nicholas Markey dell'INRIA in Francia, Martin Zimmermann dell'Universita' di Liverpool, Mimmo Parente dell'Universita' di Salerno per citarne alcuni. Tra le persone che localmente hanno partecipato alle attivita' del laboratorio nel 2020 si elencano, in aggiunta al responsabile scientifico, gli assegniti di ricerca Bastien Maubert e Laura Bozzelli Post-doc, la dottoranda Silvia Stranieri e il collega Walter Balzano del Dipartimento DIETI. L'attivita' scientifica centrale del laboratorio ASTREA realizzata nel 2021 ha riguardato gli aspetti formali per il ragionamento strategico nel campo dei sistemi multi-agente e l'automated mechanism design.

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