Luca Di Stefano

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ACADEMIC SERVICE

CONFERENCE REVIEWER
AAMAS, SEFM, TASE, ICSOFT

VOLUNTEER
ITASEC

WORK EXPERIENCE

THALES ALENIA SPACE
Workshop Planning Intern
Jun 2015 – Feb 2016 • L'Aquila, IT

Maintenance of legacy traceability systems; development of in-house client applications (SQL Server, VBA).

AUBAY RESEARCH & TECHNOLOGIES Intern
Dec 2013 – Feb 2014 • Carsoli, IT

Bachelor's thesis project. Design of a digital publishing platform with a cross-platform mobile client (C#, ASP.NET, Windows Communication Foundation, Java, Xamarin).

VOLUNTEERING

ASSOCIAZIONE ITALIANA GUIDE E SCOUTS D'EUROPA CATTOLICI
January 2015 – Present time

Development and deployment of web applications (C#, ASP.Net, SQL Server, PHP, JavaScript, Azure).

PROGRAMMING

Proficient:
Python • C# • F# • Java • LaTeX
Competent:
C • C++ • Javascript • T-SQL
Matlab • Bash • Erlang
Familiar:
OCaml • PHP • Prolog • VHDL

CERTIFICATIONS

2015 Cisco CCNA Routing and Switching: Introduction to Networks
2010 Cambridge First Certificate in English (FCE). Pass with merit

CAREER

CONVECS, INRIA/LIG Post-doctoral researcher
Nov 2020 – Present time • Grenoble, FR

IMT LUCCA Grant holder
Dec 2019 – Oct 2020 • Lucca, IT

Research grant on "Verification of Emerging Properties in Collective Adaptive Systems", awarded by the SysMA research unit.

CONVECS, INRIA/LIG Visiting PhD student
Mar – Jul 2019 • Grenoble, FR

EDUCATION

GRAN SASSO SCIENCE INSTITUTE PhD in Computer Science
Nov 2016 – Oct 2020 • L'Aquila, IT

- Thesis: "Modelling and Verification of Multi-Agent Systems via Sequential Emulation". Available at hdl.handle.net/20.500.12571/10181.
- Other activities: student representative in the academic senate (2018–2020).

UNIVERSITY OF L'AQUILA MSc in Computer Science and Systems Engineering
Mar 2014 – Oct 2016 • L'Aquila, IT

Final grade: 110/110, cum laude.

PUBLICATIONS (DBLP: 215/9758; ORCID iD: 0000-0003-1922-3151)

- Luca Di Stefano and Frédéric Lang. Verifying temporal properties of stigmergic collective systems using CADP. In ISoLA, 2021.
- Luca Di Stefano, Frédéric Lang, and Wendelin Serwe. Combining SLiVER with CADP to analyze multi-agent systems. In COORDINATION, 2020.
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Multi-agent systems with virtual stigmergy. Sci. Comput. Program., 187, 2020. doi: 10.1016/j.scico.2019.102345.
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Toward formal models and languages for verifiable multi-robot systems. Front. Robot. AI, 5, 2018.
- Rocco De Nicola, Luca Di Stefano, and Omar Inverso. Multi-agent systems with virtual stigmergy. In STAF Workshops, 2018.

SOFTWARE PROJECTS (GitHub: github.com/lou1306)

- SLiVER: a tool to verify multi-agent systems with stigmergic interaction by reduction to sequential imperative programs (Python, F#). Code available on GitHub.
- LocalPathPlanner: a computer vision algorithm for goal-oriented obstacle avoidance (Python, OpenCV, V-REP). Master's thesis project; presented as a poster at COSIT2017. Code available on GitHub.