Carolina Crespi

PhD in Computer Science

I have a Physics degree from the University of Catania and am close to completing my Ph.D. in Computer Science. My academic journey developed diverse skills in physical disciplines, fostering flexibility and critical thinking. I'm experienced in tools like LateX, PowerPoint, NetLogo for agent simulations, and proficient in R and Excel for data analysis.

Contacts

Email
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Website
https://www.dmi.unict.it/ccrespi/

City
Siracusa

Education

2020
Master's degree in Physics
University of Catania

2013
Bachelor's degree in Physics
University of Catania

Skills

- Work goal-oriented
- Time management
- Organizational and planning
- Public speaking

Languages

Italian: MOTHER TONGUE

English: B2

Passions

- Lego
- Harry Potter
- MotoGP
- Restaurants

Work and Professional Experiences

10/2020 - ongoing
Department of Mathematics and Computer Science at the University of Catania |
Catania
PhD student

- Algorithm for dynamic networks based on ant colony
- Agent-based model for studying crowds and collective behaviors
- Agent-based model for studying human-robot interactions in collaboration with the University of Manchester
- Speaker and organizer at international conferences
- Writing and reviewing scientific papers published in international journals
- Teaching

09/2018 - 05/2019
ONLUS Mediterraneo Sicilia Europa |
Catania
Mathematics and Physics Tutor

- Supporting students in completing assignments
- Creation of personalized learning programs and objectives
- Joint definition of educational and training objectives with teachers

09/2014 - 07/2017
Campus Athena |
Catania
Mathematics and Physics Tutor

- Assistance to students in assignments and exam preparation
- Emotional support to enhance students' self-esteem and abilities
- Preparation of final-year high school students for medical entrance exams

Other activities

05/2019
Guide for the exhibition "Diamo i numeri"| *Catania*

03/2014 - 05/2014
Participation in the "StartUP Academy" contest| *Catania*

05/2012 - 12/2015
Photographer and journalist for LiveUNICT| *Catania*

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Publications

Crespi, C., Pavone, M. (2023). *"Does a group's size affect the behavior of a crowd? An analysis based on an agent model"*. n: Social Simulation Conference (SSC 2023), TBA (TBA)

Crespi, C., Fargetta, G., Pavone, M., Scollo, R.A. (2023). *"A sensitivity analysis of parameters in a crowd model"*. In: Applied Soft Computing, Volume 146, October 2023, 110684. DOI: 10.1016/j.asoc.2023.110684.

Crespi, C., Fargetta, G., Pavone, M., Scollo, R.A. (2023). "*An Agent-Based Model for Crowd Simulation*". In: De Stefano, C., Fontanella, F., Vanneschi, L. (eds) Artificial Life and Evolutionary Computation. WIVACE 2022. Communications in Computer and Information Science, vol 1780. Springer, Cham. https://doi.org/10.1007/978-3-031-31183-3_2

Crespi, C., Scollo, R.A., Fargetta, G., Pavone, M. (2023). "*How a Different Ant Behavior Affects on the Performance of the Whole Colony*". In: Di Gaspero, L., Festa, P., Nakib, A., Pavone, M. (eds) Metaheuristics. MIC 2022. Lecture Notes in Computer Science, vol 13838. Springer, Cham. https://doi.org/10.1007/978-3-031-26504-4_14

Crespi, C., Fargetta, G., Pavone, M., Scollo, R.A. (2022). "*An Agent-Based Model to Investigate Different Behaviours in a Crowd Simulation*". In: Mernik, M., Eftimov, T., Črepinšek, M. (eds) Bioinspired Optimization Methods and Their Applications. BIOMA 2022. Lecture Notes in Computer Science, vol 13627. Springer, Cham. https://doi.org/10.1007/978-3-031-21094-5_1

Crespi, C., Fargetta, G., Pavone, M., Scollo, R.A., Scrimali, L. (2020). "*A Game Theory Approach for Crowd Evacuation Modelling*". In: Filipič, B., Minisci, E., Vasile, M. (eds) Bioinspired Optimization Methods and Their Applications. BIOMA 2020. Lecture Notes in Computer Science, vol 12438. Springer, Cham. https://doi.org/10.1007/978-3-030-63710-1_18

C. Crespi, R. A. Scollo and M. Pavone, "*Effects of Different Dynamics in an Ant Colony Optimization Algorithm*" 2020 7th International Conference on Soft Computing & Machine Intelligence (ISCMI), Stockholm, Sweden, 2020, pp. 8-11, doi: 10.1109/ISCMI51676.2020.9311553

Conferences, schools and workshops

Speaker - 18th Social Simulation Conference (SSC 2023) (SSC2023)
4 - 10 September 2023 | Glasgow, United Kindom

Seminar - Presentation of the research project
13 January 2023 | ETH Zurigo, Svizzera (Online)

Speaker - 10th International Conference on Bioinspired Optimisation Methods and Their Applications 2022 (BIOMA 2022)
17 - 18 November 2022 | Maribor, Slovenia

Local Organizing Committee - International Conference in Optimization and Learning (OLA 2022)
18 - 20 July 2022 | Siracusa, Italia

Comitato organizzativo e speaker - 14th Metaheuristics International Conference (MIC 2022)
11 - 14 July 2022 | Siracusa, Italy

Local Organizing Committee - International Conference in Optimization and Learning (OLA 2021)
20 - 21 June 2021 | Catania, Italy (Online)

Local Organizing Committee and Participant - Metaheuristics Summer School (MESS 2020+1)
15 - 18 June 2021 | Catania, Italy (Online)

Speaker - 7th International Conference on Soft Computing & Machine Intelligence (ISCMI 2020)
14 - 15 November 2020 | Stockholm, Sweden (Online)

Speaker - 9th International Conference on Bioinspired Optimisation Methods and Their Applications 2020 (BIOMA 2020)
19 - 20 November 2020 | Bruxelles, Belgium (Online)

Speaker - XIV International Workshop on Artificial Life and Evolutionary Computation (WIVACE2019)
18 - 20 September 2019 | Rende, Italy