

**UNIVERSITÀ DEGLI STUDI DI MILANO**

selezione pubblica per n.\_\_2\_ posto/i di Ricercatore a tempo determinato ai sensi dell'art.24,

comma 3, lettera b) della Legge 240/2010 per il settore concorsuale 01/B1 - INFORMATICA,

settore scientifico-disciplinare INF/01 - INFORMATICA

presso il Dipartimento di Dipartimento di Informatica Giovanni degli Antoni,

(avviso bando pubblicato sulla G.U. n. 7 del 27/01/2023 Codice concorso 5205

**[Nome e cognome]  
CURRICULUM VITAE**

**(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO RITIENE UTILI AI FINI DELLA VALUTAZIONE.**

**LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE SOSTITUITE, MODIFICATE O INTEGRATE)**

**INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

<b>COGNOME</b>	<b>FERRANDO</b>
<b>NOME</b>	<b>ANGELO</b>
<b>DATA DI NASCITA</b>	02/12/1991

**TITOLI**

**TITOLO DI STUDIO**

*(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)*

Settembre 2013 - Ottobre 2015  
Laurea Magistrale in Informatica con lode  
Università degli Studi di Genova, Italia

Settembre 2010 - Luglio 2013  
Laurea Triennale in Informatica con lode  
Università degli Studi di Genova, Italia

**TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO**

*(inserire titolo, ente, data di conseguimento, ecc.)*

Novembre 2015 - Marzo 2019  
PhD - Titolo tesi: "An Unexpected Journey:

Verification of Multiagent Systems and Beyond”  
Towards Runtime  
Università degli Studi di Genova, Italia

### **CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI**

*(per ciascun contratto stipulato, inserire università/ente, data di inizio e fine, ecc.)*

Marzo 2021 – Presente  
Ricercatore a tempo determinato (Tipo A)  
Università degli Studi di Genova  
Genova, Liguria, Italia

Luglio 2020 – Febbraio 2021  
Postdoctoral Research Associate (PDRA)  
The University of Manchester  
Manchester, Greater Manchester, United Kingdom

Dicembre 2018 – Giugno 2020  
Postdoctoral Research Associate (PDRA)  
University of Liverpool  
Liverpool, Merseyside, United Kingdom

### **ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO**

*(inserire periodo [gg/mm/aa inizio e fine], anno accademico, ateneo, corso laurea, numero ore, ecc.)*

Corsi Triennali  
– Programmazione Concorrente e Algoritmi Distribuiti (2020/2021, 2022/2023) [6 CFU]  
– Algoritmi e Strutture Dati (2021/2022) [12 CFU]

Corsi Magistrali  
– Multi-Agent Systems (MAS) (2021/2022, 2022/2023) [6 CFU]  
– Natural Language Processing (NLP) (2021/2022, 2022/2023) [6 CFU]  
– Introduction to Computer Science (2021/2022) [2 CFU]

Corsi di Dottorato  
– Introduction to formal verification: an appetiser (2021/2022, 2022/2023) [1 settimana]

### **DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;**

*(inserire anno accademico, ente, corso, periodo, ecc.)*

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### **DOCUMENTATA ATTIVITÀ IN CAMPO CLINICO**

*(indicare, data, durata, ruolo, ente presso il quale si è prestata attività assistenziale, ecc.)*

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## REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

(indicare, data, progetto, ecc.)

Luglio 2022 - Presente

Principal Investigator del progetto di ricerca INSERTION

Finanziato dal dipartimento di Informatica dell'Università degli Studi di Genova (fondo di ricerca SEED 2022)

Ottobre 2022 - Presente

Partecipante al Workshop 4 (Verification and Monitoring) del progetto di ricerca CONVINC

Finanziato dall'European Union Horizon Europe Programme

## ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)

Coordinatore del nodo CINI "Smart Cities & Communities" dell'Università di Genova.

Conferenze e Workshop che ho organizzato:

- Organizzatore (con R. C. Cardoso, F. Papacchini, M. Askarpour, L. A. Dennis) del 2nd Workshop on Agents and Robots for reliable Engineered Autonomy (AREA 2022), in IJCAI-ECAI 2022
- Organizzatore del 23rd Workshop "From Objects to Agents" (WOA 22)
- Parte del gruppo di sviluppo organizzante la competizione ARIAC del NIST (2022)
- Parte del Publicity and Communication Committee del 20th International Conference of the Italian Association for Artificial Intelligence (AIIA 2021)
- Organizzatore (con R. C. Cardoso, D. Briola, T. Ahlbrecht, C. Menghi) del 1st Workshop on Agents and Robots for reliable Engineered Autonomy (AREA 2020)
- Organizzatore locale del 15th International Conference of the Italian Association for Artificial Intelligence, Genova
- Organizzatore locale (con D. Briola, A. C

## TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia, numero brevetto, ecc.)

Brevetto sullo sviluppo di una web app per supportare periti assicurativi tramite videochiamata. CODICE: 102019000008553.

## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

- Give Me a Hand: How to Use Model Checking for Multi-Agent Systems to Help Runtime Verification and Vice Versa. The 1st Workshop on Strategies, Prediction, Interaction, and Reasoning (SPIRIT 2022), Udine, 29 November, 2022.
- Runtime Verification of Autonomous Systems with Imperfect Information. The 20th International Conference on Software Engineering and Formal Methods (SEFM 2022), Berlin, 26-30 September, 2022.
- Extending Attack-Fault Trees with Runtime Verification. The 4th Workshop on Formal Methods for Autonomous Systems (FMAS 2022), Berlin, 26-27 September, 2022.
- Tutorial su invito. Exploiting Logic Programming for Runtime Verification. The 16th International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR 2022),

Genova, 5-9 September, 2022.

- Towards the Combination of Model Checking and Runtime Verification on Multi-Agent Systems. The 20th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2022), L'Aquila, 13-15 July, 2022.
- Summarising a Holistic Approach to the Verification and Validation of Autonomous Cognitive Systems. The 18th International Conference on Principles of Knowledge Representation and Reasoning (KR 2021), Virtual, 10 Novembre, 2021
- Tutorial su invito. Enhancing Robot Reliability through Runtime Verification (Tool Demonstration). The 32nd International Symposium on Software Reliability Engineering (ISSRE 2021), Virtual, 27 October, 2021
- Towards Partial Monitoring: It is Always too Soon to Give Up. Third Workshop on Formal Methods for Autonomous Systems (FM AS 21), Virtual, 21 October, 2021.
- The IoT Posteggio Smart Parking Project. Italian Conference on ICT for Smart Cities and Communities (I-Cities 2021), Virtual, 22 September, 2021
- Combine Model Checking and Runtime Verification in Multi-Agent Systems. Italian Conference on Theoretical Computer Science (ICTCS 2021), Virtual, 13 September, 2021
- Incrementally Predictive Runtime Verification. Italian Conference on Computational Logic (CILC 2021), Virtual, 8 September, 2021
- RVPLAN: A General Purpose Framework for Replanning using Runtime Verification. Verification and mOnitoring at RunTime EXecution (VORTEX 2021), Virtual, 12 July, 2021
- Invited speaker. The IEEE TC on the Verification of Autonomous Systems, 6 May, 2021
- Invited speaker. Italian Association for Artificial Intelligence (AixIA 2020) Doctoral Consortium
- StreamB: a declarative language for automatically synthesising abstract environments in agent platforms International Workshop on Engineering Multi-Agent Systems (EMAS 2021), London, 3-4 May, 2021
- Runtime Verification of the ARIAC competition: Can a robot be Agile and Safe at the same time? Italian Research Group on Artificial Intelligence and Robotics Workshop (AIRO 2020), Torino, 26 November, 2020
- ROSMonitoring: a Runtime Verification Framework for ROS. Towards Autonomous Robotic Systems Conference (TAROS 2020), Nottingham, 16 September, 2020
- On Enactability of Agent Interaction Protocols: Towards a Unified Approach. International Workshop on Engineering Multi-Agent Systems (EMAS 2019), Montreal, 13-14 May, 2019
- Verifying and Validating Autonomous Systems: Towards an Integrated Approach. International Conference on Runtime Verification (RV 2018), Limassol (Cyprus), 10-13 November, 2018
- Decentralizing MAS Monitoring with DecaMon. International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2017), San Paolo, 8-12 May, 2017
- Automatic Partitions Extraction to Distribute the Runtime Verification of a Global Specification. International Conference of the Italian Association for the Artificial Intelligence Doctoral Consortium (AI\*IA 2016), Genova, 28 November - 1 December, 2016
- Monitoring Patients with Hypoglycemia Using Self-adaptive Protocol-Driven Agents: A Case Study. International Workshop on Engineering Multi-Agent Systems (EMAS 2016), Singapore, 9-10 May, 2016

## **CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA**

*(inserire premio, data, ente organizzatore, ecc.)*

- Articolo da rivista "Bridging the gap between single- and multi-model predictive runtime verification" selezionato per la journal-first track al 25th International Symposium on Formal Methods (FM 2023)
- Secondo posto al Multi-Agent Programming Contest, 2020
- Primo posto al Multi-Agent Programming Contest, 2019
- Best Paper Award al 7th International Workshop on Engineering Multi-Agent Systems (EMAS 2019)
- Menzione speciale Tesi Magistrale: "Trace expressions for runtime verification and protocol-driven behaviour"

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**POSSESSO DEL DIPLOMA DI SPECIALIZZAZIONE EUROPEA RICONOSCIUTO DA BOARD INTERNAZIONALI (relativamente a quei settori concorsuali nei quali è prevista)**

*(indicare diploma, data di conseguimento, ecc.)*

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**TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240**

*(indicare se contratto di tipologia A o B, Ateneo, data di decorrenza e fine contratto, ecc.)*

Marzo 2021 - Presente Ricercatore a tempo determinato (Tipo A) Università degli Studi di Genova Genova, Liguria, Italia
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**PRODUZIONE SCIENTIFICA**

**PUBBLICAZIONI SCIENTIFICHE**

*(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)*

Gianvito Losapio, Federico Minutoli, Viviana Mascardi e Angelo Ferrando. «Smart balancing of E-scooter sharing systems via deep reinforcement learning: a preliminary study». In: <i>Intelligenza Artificiale</i> 16.1 (2022), pp. 49-67. URL : <a href="https://doi.org/10.3233/IA-210126">https://doi.org/10.3233/IA-210126</a> .
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Angelo Ferrando e Rafael C. Cardoso. «Safety Shields, an Automated Failure Handling Mechanism for BDI Agents». In: <i>21st International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2022, Auckland, New Zealand, May 9-13, 2022</i> . A cura di Piotr Faliszewski, Viviana Mascardi, Catherine Pelachaud e Matthew E. Taylor. International Foundation for Autonomous Agents e Multiagent Systems (IFAAMAS), 2022, pp. 1589-1591. URL : <a href="https://www.ifaamas.org/Proceedings/aamas2022/pdfs/p1589.pdf">https://www.ifaamas.org/Proceedings/aamas2022/pdfs/p1589.pdf</a> .
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Davide Ancona, Angelo Ferrando e Viviana Mascardi. «Exploiting Probabilistic Trace Expressions for Decentralized Runtime Verification with Gaps». In: <i>Proceedings of the 37th Italian Conference on Computational Logic, Bologna, Italy, June 29 - July 1, 2022</i> . A cura di Roberta Calegari, Giovanni Ciatto e Andrea Omicini. Vol. 3204. CEUR Workshop Proceedings. CEUR-WS.org, 2022, pp. 154-170. URL : <a href="http://ceur-ws.org/Vol-3204/paper%5C_17.pdf">http://ceur-ws.org/Vol-3204/paper%5C_17.pdf</a> .
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Angelo Ferrando e Rafael C. Cardoso. «RVPLAN: Runtime Verification of Assumptions in Automated Planning». In: <i>Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 2, Online Streaming, February 3-5, 2022</i> . A cura di Ana Paula Rocha, Luc Steels e H. Jaap van den Herik. SCITEPRESS, 2022, pp. 67-77. URL : <a href="https://doi.org/10.5220/0010776500003116">https://doi.org/10.5220/0010776500003116</a> .
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Marie Farrell, Nikos Mavrakis, Angelo Ferrando, Clare Dixon e Yang Gao. «Journal-
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First: Formal Modelling and Runtime Verification of Autonomous Grasping for Active Debris Removal». In: Integrated Formal Methods - 17th International Conference, IFM 2022, Lugano, Switzerland, June 7-10, 2022, Proceedings. A cura di Maurice H. ter Beek e Rosemary Monahan. Vol. 13274. Lecture Notes in Computer Science. Springer, 2022, pp. 39-44. URL : [https://doi.org/10.1007/978-3-031-07727-2%5C\\_3](https://doi.org/10.1007/978-3-031-07727-2%5C_3).

Angelo Ferrando e Vadim Malvone. «Towards the Combination of Model Checking and Runtime Verification on Multi-agent Systems». In: Advances in Practical Applications of Agents, Multi-Agent Systems, and Complex Systems Simulation. The PAAMS Collection - 20th International Conference, PAAMS 2022, L'Aquila, Italy, July 13-15, 2022, Proceedings. A cura di Frank Dignum, Philippe Mathieu, Juan Manuel Corchado e Fernando de la Prieta. Vol. 13616. Lecture Notes in Computer Science. Springer, 2022, pp. 140-152. URL : [https://doi.org/10.1007/978-3-031-18192-4%5C\\_12](https://doi.org/10.1007/978-3-031-18192-4%5C_12).

Angelo Ferrando e Vadim Malvone. «Runtime Verification with Imperfect Information Through Indistinguishability Relations». In: Software Engineering and Formal Methods - 20th International Conference, SEFM 2022, Berlin, Germany, September 26-30, 2022, Proceedings. A cura di Bernd-Holger Schlingloff e Ming Chai. Vol. 13550. Lecture Notes in Computer Science. Springer, 2022, pp. 335-351. URL : [https://doi.org/10.1007/978-3-031-17108-6%5C\\_21](https://doi.org/10.1007/978-3-031-17108-6%5C_21).

Débora C. Engelmann, Angelo Ferrando, Alison R. Panisson, Davide Ancona, Rafael H. Bordini e Viviana Mascardi. «RV4JaCa - Runtime Verification for Multi-Agent Systems». In: Proceedings of the Second Workshop on Agents and Robots for reliable Engineered Autonomy, AREA@IJCAI-ECAI 2022, Vienna, Austria, 24th July 2022. A cura di Rafael C. Cardoso, Angelo Ferrando, Fabio Papacchini, Mehrnoosh Askarpour e Louise A. Dennis. Vol. 362. EPTCS. 2022, pp. 23-36. URL : <https://doi.org/10.4204/EPTCS.362.5>.

Rafael C. Cardoso, Angelo Ferrando e Michael Fisher. «Extending Attack-Fault Trees with Runtime Verification». In: Proceedings Fourth International Workshop on Formal Methods for Autonomous Systems (FMAS) and Fourth International Workshop on Automated and verifiable Software sYstem DEvelopment (ASYDE), FMAS/ASYDE@SEFM 2022, and Fourth International Workshop on Automated and verifiable Software sYstem DEvelopment (ASYDE) Berlin, Germany, 26th and 27th of September 2022. A cura di Matt Luckcuck e Marie Farrell. Vol. 371. EPTCS. 2022, pp. 193-207. URL : <https://doi.org/10.4204/EPTCS.371.14>.

Angelo Ferrando e Viviana Mascardi, cur. Proceedings of the 23rd Workshop "From Objects to Agents", Genova, Italy, September 1-3, 2022. Vol. 3261. CEUR Workshop Proceedings. CEUR-WS.org, 2022. URL : <http://ceur-ws.org/Vol-3261>.

Rafael C. Cardoso, Angelo Ferrando, Fabio Papacchini, Mehrnoosh Askarpour e Louise A. Dennis, cur. Proceedings of the Second Workshop on Agents and Robots for reliable Engineered Autonomy, AREA@IJCAI-ECAI 2022, Vienna, Austria, 24th July 2022. Vol. 362. EPTCS. 2022. URL : <https://doi.org/10.4204/EPTCS.362>.

Angelo Ferrando e Vadim Malvone. «Towards the Combination of Model Checking and Runtime Verification on Multi-Agent Systems». In: CoRR abs/2202.09344 (2022). arXiv: 2202.09344. URL : <https://arxiv.org/abs/2202.09344>.

Matt Luckcuck, Marie Farrell, Angelo Ferrando, Rafael C. Cardoso, Louise A. Dennis e Michael Fisher. «A Compositional Approach to Verifying Modular Robotic Systems». In: CoRR abs/2208.05507 (2022). arXiv: 2208.05507. URL : <https://doi.org/10.48550/arXiv.2208.05507>.

Luca Ciccone, Francesco Dagnino e Angelo Ferrando. «Ain't No Stopping Us Monitoring Now». In: CoRR abs/2211.11544 (2022). arXiv: 2211.11544. URL : <https://doi.org/10.48550/arXiv.2211.11544>.

Rafael C. Cardoso e Angelo Ferrando. «A Review of Agent-Based Programming for Multi-Agent Systems». In: *Comput.* 10.2 (2021), p. 16. URL : <https://doi.org/10.3390/computers10020016>.

Marie Farrell, Nikos Mavrakis, Angelo Ferrando, Clare Dixon e Yang Gao. «Formal Modelling and Runtime Verification of Autonomous Grasping for Active Debris Removal». In: *Frontiers Robotics AI* 8 (2021), p. 639282. URL : <https://doi.org/10.3389/frobt.2021.639282>.

Sylvain Conchon, Giorgio Delzanno e Angelo Ferrando. «Declarative Parameterized Verification of Distributed Protocols via the Cubicle Model Checker». In: *Fundam. Informaticae* 178.4 (2021), pp. 347–378. URL : <https://doi.org/10.3233/FI-2021-2010>.

Rafael C. Cardoso, Angelo Ferrando, Daniela Briola, Claudio Menghi e Tobias Ahlbrecht. «Agents and Robots for Reliable Engineered Autonomy: A Perspective from the Organisers of AREA 2020». In: *J. Sens. Actuator Networks* 10.2 (2021), p. 33. URL : <https://doi.org/10.3390/jsan10020033>.

Rafael C. Cardoso, Angelo Ferrando, Daniela Briola, Claudio Menghi e Tobias Ahlbrecht. «Special Issue: Agents and Robots for Reliable Engineered Autonomy». In: *J. Sens. Actuator Networks* 10.3 (2021), p. 47. URL : <https://doi.org/10.3390/jsan10030047>.

Michael Fisher, Rafael C. Cardoso, Emily C. Collins, Christopher Dadswell, Louise A. Dennis, Clare Dixon, Marie Farrell, Angelo Ferrando, Xiaowei Huang, Mike Jump, Georgios Kourtis, Alexei Lisitsa, Matt Luckcuck, Shan Luo, Vincent Pagé, Fabio Papacchini e Matt Webster. «An Overview of Verification and Validation Challenges for Inspection Robots». In: *Robotics* 10.2 (2021), p. 67. URL : <https://doi.org/10.3390/robotics10020067>.

Davide Ancona, Luca Franceschini, Angelo Ferrando e Viviana Mascardi. «RML: Theory and practice of a domain specific language for runtime verification». In: *Sci. Comput. Program.* 205 (2021), p. 102610. URL : <https://doi.org/10.1016/j.scico.2021.102610>.

Angelo Ferrando, Louise A. Dennis, Rafael C. Cardoso, Michael Fisher, Davide Ancona e Viviana Mascardi. «Toward a Holistic Approach to Verification and Validation of Autonomous Cognitive Systems». In: *ACM Trans. Softw. Eng. Methodol.* 30.4 (2021), 43:1–43:43. URL : <https://doi.org/10.1145/3447246>.

Angelo Ferrando e Vadim Malvone. «Strategy RV: A Tool to Approximate ATL Model Checking under Imperfect Information and Perfect Recall». In: *AAMAS '21: 20th International Conference on Autonomous Agents and Multiagent Systems, Virtual Event, United Kingdom, May 3-7, 2021*. A cura di Frank Dignum, Alessio Lomuscio, Ulle Endriss e Ann Nowé. ACM, 2021, pp. 1764–1766. URL : <https://www.ifaamas.org/Proceedings/aamas2021/pdfs/p1764.pdf>.

Angelo Ferrando e Giorgio Delzanno. «Incrementally Predictive Runtime Verification». In: *Proceedings of the 36th Italian Conference on Computational Logic, Parma, Italy, September 7-9, 2021*. A cura di Stefania Monica e Federico Bergenti. Vol. 3002. CEUR Workshop Proceedings. CEUR-WS.org, 2021, pp. 92–106. URL : <http://ceur-ws.org/Vol-3002/paper25.pdf>.

Rafael C. Cardoso, Angelo Ferrando, Louise A. Dennis e Michael Fisher. «Implementing Ethical Governors in BDI». In: *Engineering Multi-Agent Systems - 9th International Workshop, EMAS 2021, Virtual Event, May 3-4, 2021, Revised Selected Papers*. A cura di Natasha Alechina, Matteo Baldoni e Brian Logan. Vol. 13190. Lecture Notes in Computer Science. Springer, 2021, pp. 22–41. URL : [https://doi.org/10.1007/978-3-030-97457-2%5C\\_2](https://doi.org/10.1007/978-3-030-97457-2%5C_2).

Angelo Ferrando e Fabio Papacchini. «StreamB: A Declarative Language for Automatically Processing Data Streams in Abstract Environments for Agent Platforms». In: Engineering Multi-Agent Systems - 9th International Workshop, EMAS 2021, Virtual Event, May 3-4, 2021, Revised Selected Papers. A cura di Natasha Alechina, Matteo Baldoni e Brian Logan. Vol. 13190. Lecture Notes in Computer Science. Springer, 2021, pp. 114-136. URL : [https://doi.org/10.1007/978-3-030-97457-2%5C\\_7](https://doi.org/10.1007/978-3-030-97457-2%5C_7).

Rafael C. Cardoso, John L. Michaloski, Craig Schlenoff, Angelo Ferrando, Louise A. Dennis e Michael Fisher. «Agile Tasking of Robotic Systems with Explicit Autonomy». In: Proceedings of the Thirty-Fourth International Florida Artificial Intelligence Research Society Conference, North Miami Beach, Florida, USA, May 17-19, 2021. A cura di Eric Bell e Fazel Keshtkar. 2021. URL : <https://doi.org/10.32473/flairs.V34i1.128481>.

Angelo Ferrando e Vadim Malvone. «Combine Model Checking and Runtime Verification in Multi-Agent Systems». In: Proceedings of the 22nd Italian Conference on Theoretical Computer Science, Bologna, Italy, September 13-15, 2021. A cura di Claudio Sacerdoti Coen e Ivano Salvo. Vol. 3072. CEUR Workshop Proceedings. CEUR-WS.org, 2021, pp. 302-310. URL : <http://ceur-ws.org/Vol-3072/paper25.Pdf>.

Michael Fisher, Angelo Ferrando e Rafael C. Cardoso. «Increasing confidence in autonomous systems». In: VORTEX 2021: Proceedings of the 5th ACM International Workshop on Verification and mOnitoring at Runtime EXecution, Virtual Event, Denmark, 12 July 2021. A cura di Wolfgang Ahrendt, Davide Ancona e Adrian Francalanza. ACM, 2021, pp. 1-4. URL : <https://doi.org/10.1145/3464974.3468452>.

Angelo Ferrando e Rafael C. Cardoso. «RVPLAN: a general purpose framework for replanning using runtime verification». In: VORTEX 2021: Proceedings of the 5th ACM International Workshop on Verification and mOnitoring at Runtime EXecution, Virtual Event, Denmark, 12 July 2021. A cura di Wolfgang Ahrendt, Davide Ancona e Adrian Francalanza. ACM, 2021, pp. 22-25. URL : <https://doi.org/10.1145/3464974.3468447>.

Rafael C. Cardoso, Angelo Ferrando e Fabio Papacchini. «Automated Planning and BDI Agents: A Case Study». In: Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection - 19th International Conference, PAAMS 2021, Salamanca, Spain, October 6-8, 2021, Proceedings. A cura di Frank Dignum, Juan Manuel Corchado e Fernando de la Prieta. Vol. 12946. Lecture Notes in Computer Science. Springer, 2021, pp. 52-63. URL : [https://doi.org/10.1007/978-3-030-85739-4%5C\\_5](https://doi.org/10.1007/978-3-030-85739-4%5C_5).

Gianvito Losapio, Federico Minutoli, Viviana Mascardi e Angelo Ferrando. «Smart Balancing of E-scooter Sharing Systems via Deep Reinforcement Learning». In: Proceedings of the 22nd Workshop "From Objects to Agents", Bologna, Italy, September 1-3, 2021. A cura di Roberta Calegari, Giovanni Ciatto, Enrico Denti, Andrea Omicini e Giovanni Sartor. Vol. 2963. CEUR Workshop Proceedings. CEUR-WS.org, 2021, pp. 83-97. URL : <http://ceur-ws.org/Vol-2963/paper16.pdf>.

Angelo Ferrando e Rafael C. Cardoso. «Towards Partial Monitoring: It is Always too Soon to Give Up». In: Proceedings Third Workshop on Formal Methods for Autonomous Systems, FMAS 2021, Virtual, October 21-22, 2021. A cura di Marie Farrell e Matt Luckcuck. Vol. 348. EPTCS. 2021, pp. 38-53. URL : <https://doi.org/10.4204/EPTCS.348.3>.

Rafael C. Cardoso, Angelo Ferrando, Fabio Papacchini, Matt Luckcuck, Sven Linker e Terry R. Payne. «MLFC: From 10 to 50 Planners in the Multi-Agent Programming Contest». In: CoRR abs/2110.08172 (2021). arXiv: 2110.08172. URL : <https://arxiv.org/abs/2110.08172>.



Angelo Ferrando e Vadim Malvone. «Towards the Verification of Strategic Properties in Multi-Agent Systems with Imperfect Information». In: CoRR abs/2112.13621 (2021). arXiv: 2112.13621. URL : <https://arxiv.org/abs/2112.13621>.

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Data

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