

FRANCESCO FABIANO

Curriculum Vitae

PERSONAL INFORMATION

🏠	ADDRESS	78 Cunliffe Cl, Oxford OX2 7BL, Oxfordshire, UK
☎	CELL PHONE	(+44) 7493 473145
🏛	AFFILIATIONS	Oxford University • Kellogg College
✉	INSTITUTIONAL E-MAIL	francesco.fabiano@cs.ox.ac.uk
✉	PERSONAL E-MAIL	fabianofrancesco.cs@gmail.com
🌐	WEBPAGE	https://francescofabiano.github.io

RESEARCH INTERESTS

Artificial Intelligence • Hybrid AI Systems • Multi-agent Systems • Automated Planning • Logic/Constraint Programming • Epistemic/Doxastic Reasoning • Knowledge Representation • Belief Manipulation • Belief Update

LANGUAGES

Italian	<i>native speaker</i>
English	<i>highly proficient in both spoken and written language</i>
Spanish	<i>basic knowledge</i>



WORK EXPERIENCE

01/2025–
ongoing **Associate Researcher**

Employer: University of Oxford, Oxford, United Kingdom
Description: Part of the Erlangen AI Hub, at the University of Oxford, focused on investigating the Computational Foundations of AI and particularly on Understanding Decision Making.

08/2024–
ongoing **Affiliated Faculty Member**

Employer: New Mexico State University, Las Cruces (NM), USA
Description: Affiliated Faculty at the Computer Science Department of New Mexico State University to conduct research on Multi-Agent Epistemic Planning.

04/2020–
ongoing **Joint Researcher** (telecommuting due to COVID-19 pandemic)

Employers: International Business Machines (IBM) Corporation, Yorktown Heights (NY), USA
Description: Participated at the IBM exploratory challenge #2106. The project, coordinated by Francesca Rossi, aimed to develop a general and robust Artificial Intelligence paradigm starting from cognitive theories such as the one proposed by D. Kahneman in his book “Thinking Fast and Slow”.

08/2023–
08/2024 **Assistant Professor**

Employer: New Mexico State University, Las Cruces (NM), USA
Description: Structured and taught undergraduate and graduate courses at the Computer Science Department. Furthermore, I focused on research in neuro-symbolic AI, automated planning, multi-agent epistemic reasoning, and computational logic.

Courses:
SUMMER 2024 “Applied Machine Learning I” (CS 487/519).
SPRING 2024 “Analysis of Algorithms” (CS 570); “Applied Machine Learning I” (CS 487/519); and “Python Programming I” (CS 153/453).
FALL 2023 “Parallel Programming” (CS 491/521); “Python Programming I” (CS 153/453); and “C++ Programming” (CS 151/451).

01/2023–
07/2023 **Adjunct Professor**

Employer: Saint Joseph's University, Philadelphia (PA), USA
Description: Structured and taught the undergraduate and graduate courses offered by the “Decision & System Sciences” curriculum at the Erivan K. Haub School of Business. Moreover, I focused on research in neuro-symbolic AI, automated planning, and computational logic

Courses: SUMMER 2023 “*Advanced Python Programming*” (DSS 770).
 SPRING 2023 “*BIA: Concepts & Practices*” (DSS 315); “*Python Programming*” (DSS 615); “*Advanced Python Programming*” (DSS 693).

10/2022–
09/2023 **Adjunct Professor** – “*Typing in L^AT_EX*”

Employer: University of Parma, Parma, Italy
Description: Structured and taught the undergraduate course “*Typing in L^AT_EX*”, open to all the students of the University. The course was designed to help the students acquire the necessary capabilities to realize documents using the typesetting language L^AT_EX. The teaching was comprised of 24 hours (equivalent to 3 Italian credits) of frontal lectures and exercises. Finally, the evaluation was based on a project.

01/2021–
12/2022 **Research Associate** – “*Artificial Intelligence for packaging production lines*”

Employers: University of Parma, Parma, Italy &
 ACMI S.P.A., Fornovo Taro (PR), Italy
Description: Implemented an automated reasoning tool that makes use of innovative techniques (*e.g.*, constraint programming, planning, etc.) to model production processes and that returns an optimized and safe plan that controls the robotic components in the production line.

08/2017–
05/2018 **Web Master**

Employer: New Mexico State University, Las Cruces (NM), USA
Description: Migrated the website of the College of Arts and Sciences to a user-friendly platform to simplify the College's staff work. After the migration, support and maintenance for the website was provided.

01/2017–
07/2017 **Research Assistant**

Employer: New Mexico State University, Las Cruces (NM), USA
Description: Studied, under Prof. Enrico Pontelli, the design of an epistemic forward planner with particular attention to heuristics for the solving process and optimizations for the underlying knowledge representation.

EDUCATION

11/2018–
06/2022 **Ph.D. in Computer Science, cum Laude**
University of Udine, Udine, Italy

Award: **Best Ph.D. Thesis** Award by GULP, 2022 (500 €)
Advisors: Profs. Agostino Dovier, Alessandro Dal Palù and Enrico Pontelli
Thesis title: “*Planning while Believing to Know*”

01/2017–
05/2018 **Master's Degree in Computer Science**
New Mexico State University, Las Cruces (NM), USA

Advisor: Prof. Enrico Pontelli
 Thesis title: *“EFP and PG-EFP: Epistemic Forward Planners in multi-agent domains”*

10/2013–
12/2016 **Bachelor’s Degree in Computer Science**
 University of Parma, Parma, Italy

Award: **Best UniPR Computer Science Student** Award by UNICT & Cisisa, 2015
 Advisor: Prof. Alessandro Dal Palù
 Thesis title: *“Load distribution analysis in an MPI framework”*

09/2008–
06/2013 **Liceo Scientifico G. Marconi**
 Parma, Italy

FELLOWSHIPS & AWARDS

UNICT & Cisisa	Best UniPR Computer Science Student Award		2015
University of Udine	Ph.D. Scholarship	€ 15 343 <i>p.a.</i>	2018/2021
University of Parma & ACMI S.P.A.	Research Fellowship	€ 27 088 <i>p.a.</i>	2021/2022
Gruppo ricercatori e Utenti Logic Programming	Ph.D. Thesis Award	€ 500	2022
USA National Institute of Standards and Technology	Research Grant (sub-contract)	\$ 1 000	2023
USA National Institute of Standards and Technology	Research Grant (sub-contract)	\$ 10 000	2024
The Pedro Arrupe, S.J., Center for Business Ethics	PRME/SDG Dashboard Research Fellow	\$ 5 000 <i>p.a.</i>	2023–2025
University of Oxford, Department of Computer Science	Research grant at UKRI AI Hub Project	£ 41 636 <i>p.a.</i>	2025/2026
UK Visas and Immigration	Global Talent Visa — Unrestricted right to work in the UK		2025/2028
OpenAI	OpenAI API Researcher Access Program	\$ 1 000	2025/2026
Kellogg College	(non-stipendiary) Junior Research Fellowship		2025/2027

TEACHING/DIVULGATION

Teaching

CS 570 <i>“Analysis of Algorithms”</i>	New Mexico State University	2024
CS 487/519 <i>“Applied Machine Learning I”</i>	New Mexico State University	2024
CS 153/453 <i>“Python Programming I”</i>	New Mexico State University	2024
CS 491/521 <i>“Parallel Programming”</i>	New Mexico State University	2023
CS 151/451 <i>“C++ Programming”</i>	New Mexico State University	2023
DSS 770 <i>“Advanced Python Programming”</i>	Saint Joseph’s University	2023
DSS 693 <i>“Advanced Python Programming”</i>	Saint Joseph’s University	2023
DSS 615 <i>“Python Programming”</i>	Saint Joseph’s University	2023
DSS 315 <i>“Business Intelligence & Analytics: Concepts & Practices”</i>	Saint Joseph’s University	2023
<i>“Typing in L^AT_EX”</i>	University of Parma	2022/2023
<i>“Algorithms and Data Structures”</i> (Teaching Assistant)	University of Udine	2020/2021

Advising

College Advisor to 5 students	Kellogg College (Univ. of Oxford)	2025–2026
Co-Advisor of 4 Master Theses	University of Udine	2019–2022
Co-Advisor of 18 Bachelor Theses	Universities of Udine & Parma	2019–2024

Conference Presentations

<i>“Building Neurosymbolic Systems with Metacognitive Control”</i>	Lab @ AAI 2025	26/02/2025
--	----------------	------------

<i>"H-EFP: Bridging Efficiency in Multi-Agent Epistemic Planning with Heuristics"</i>	PRIMA 2024	20/11/2024
<i>"An Explainable Multilingual Framework for Data Analysis Narration"</i>	ICLP 2024	17/10/2024
<i>"Multi-agent Epistemic Planning with Inconsistent Beliefs, Trust and Lies"</i>	PRICAI 2021	09/11/2021
<i>"Comprehensive Multi-Agent Epistemic Planning"</i>	DC @ ICLP 2021	22/09/2021
<i>"E-PDDL: A Standardized Way of Defining Epistemic Planning Problems"</i>	KEPS @ ICAPS 2021	05/08/2021
<i>"EFP 2.0: A Multi-Agent Epistemic Solver with Multiple e-State Representations"</i>	ICAPS 2020	27/10/2020
<i>"An ASP approach for arteries classification in CT-scans"</i>	CILC 2020	15/10/2020
<i>"Towards a Complete Characterization of Epistemic Reasoning"</i>	CILC 2020	13/10/2020
<i>"Design of a Solver for Multi-Agent Epistemic Planning"</i>	ICLP 2019	24/09/2019
<i>"Design of a Solver for Multi-Agent Epistemic Planning"</i>	DC @ ICLP 2019	22/09/2019
<i>"Non-Well-Founded Set Based Multi-Agent Action Language"</i>	CILC 2019	27/08/2019

Seminars and Talks

<i>"Thinking Fast and Slow in AI"</i>	Erlangen AI Meeting @ Univ. of Oxford	20/05/2025
<i>"Planning while Believing to Know"</i>	Erlangen AI Seminar @ Univ. of Oxford	23/04/2025
<i>"Planning while Believing to Know"</i>	OXCAY Seminar @ Univ. of Oxford	06/02/2025
<i>"Modeling Multi-Agent Epistemic Planning in ASP"</i>	Declarative Programming class @ UniPR	16/12/2024
<i>"Planning while Believing to Know"</i>	Haub Innovation Speaker @ SJU	17/02/2023
<i>"Modeling Multi-Agent Epistemic Planning in ASP"</i>	Declarative Programming class @ UniPR	30/11/2022
<i>"Thinking Fast and Slow in AI"</i>	AI4HRC workshop @ UniUD	28/03/2022
<i>"Planning while Believing to Know"</i>	ES seminar @ FBK	14/02/2020
<i>"Modeling Multi-Agent Epistemic Planning in ASP"</i>	Automated Reasoning class @ UniUD	12/12/2020
<i>"Epistemic Reasoning in Crime Reconstruction"</i>	COST Action 17124 meeting	09/12/2019
<i>"A Study on Fingerprint Inheritance through AI"</i>	COST Action 17124 meeting	09/11/2019
<i>"Ill-Founded Multi-Agent Epistemic Action Language"</i>	iFM ² seminar @ UniUD	11/06/2019
<i>"Inheritance in Fingerprints"</i>	GNCS-2019 workshop @ UniPR	04/06/2019
<i>"Epistemic Planning"</i>	GNCS-2019 workshop @ UniPR	03/06/2019

SCIENTIFIC CONTRIBUTIONS

Projects Participation

GNCS-2023	<i>"ARICSxAI: Automated Reasoning Interpretation of CT-Scans and xAI"</i>
GNCS-2022	<i>"InSANE: Investigating Sparse Algorithms in the post von Neumann Era"</i>
GNCS-2020	<i>"NoRMA: Automazione del Ragionamento Non-Monotono su Moderne Architetture Parallele"</i>
GNCS-2019	<i>"Logic Programming for Early Detection of Pancreatic Cancer"</i>
PRID-ENCASE 2019	<i>"Efforts in the Understanding of Complex Interacting Systems"</i>

Research Proposal/Grants Reviewer

Toulouse Initiative for Research's Impact on Society (TIRIS), 2025 – Junior Fellowship Program • Dutch Research Council (NWO), 2024 – Research Proposal

Chair

PRIMA, 2024 – Session Chair • SYNERGY @KR, 2024 – Organizer & Chair • ICLP & LPNMR, 2024 – Autumn School on Logic Programming Organizer • ICLP & LPNMR, 2024 – Doctoral Consortium Organizer & Chair • ICLP, 2023 – Doctoral Consortium Organizer & Chair • ICLP 2023, Session Chair

PC Member

AAAI-AIA, 2026 • AAAI, 2026 • AIES, 2025 • ECAI, 2025 • ICLP, 2025 • IJCAI, 2025 • AAAI, 2025 • AIES, 2024 • ICLP, 2024 • IJCAI, 2024 • AAAI, 2024 • ICLP, 2023 • CILC, 2023 • IEEE ICTAI, 2022 • ACAIN, 2022 • OVERLAY, 2022 • CILC, 2022 • IJCAI, 2022 • IEEE ICTAI, 2021 • IJCAI, 2021

Journal Reviews

International Journal of Computer Theory and Engineering (IJCTE), 2024 • Journal of Artificial Intelligence Research (JAIR), 2024 • Journal of Computer Languages (COLA), 2024 • The Journal of Supercomputing, 2024 • Journal of Logic and Computation (JLC), 2023 • Journal of Artificial Intelligence (AIJ), 2019

Conference Reviews and Sub-Reviews

PADL, 2024 • AAMAS, 2023 • AIXIA, 2022 • CP, 2022 • IJCAI, 2022 • IEEE ICTAI, 2021 • IJCAI, 2021 • ECAI, 2020 • ICLP, 2020 • IEEE ICTAI, 2020 • IJCAI, 2020 • AIIA, 2019 • LPNMR, 2019

A complete list of my publications can be found on my DBLP and Google Scholar pages, as well as in the lists below.

Editor

- [E1] Pedro Cabalar et al., eds. *Proceedings 40th International Conference on Logic Programming, ICLP 2024, University of Texas at Dallas, Dallas Texas, USA, October 14-17 2024*. Vol. 416. EPTCS. 2025. DOI: 10.4204/EPTCS.416.
- [E2] Lucía Gómez Álvarez et al., eds. *Joint Proceedings of the Joint Workshop on Knowledge Diversity and Cognitive Aspects of KR and the Workshop on Symbolic and Neuro-Symbolic Architectures for Intelligent Robotics Technology (KoDis-CAKR-SYNERGY 2024) co-located with the 21st International Conference on Principles of Knowledge Representation and Reasoning (KR 2024), Hanoi, Vietnam, November 2-8, 2024*. Vol. 3876. CEUR Workshop Proceedings. CEUR-WS.org, 2024. URL: <https://nbn-resolving.org/urn:nbn:de:0074-3876-8>.
- [E3] Enrico Pontelli et al., eds. *Proceedings 39th International Conference on Logic Programming, ICLP 2023, Imperial College London, UK, 9th July 2023 - 15th July 2023*. Vol. 385. EPTCS. 2023. DOI: 10.4204/EPTCS.385.

Journal Articles

- [J1] M. Bergamaschi Ganapini et al. “Fast, slow, and metacognitive thinking in AI”. In: *npj Artificial Intelligence* 1.1 (Oct. 2025), p. 27. ISSN: 3005-1460. DOI: 10.1038/s44387-025-00027-5.
- [J2] Francesco Fabiano et al. “Thinking Fast and Slow in Human and Machine Intelligence”. In: *Commun. ACM* 68.8 (July 2025), pp. 72–79. ISSN: 0001-0782. DOI: 10.1145/3715709.
- [J3] Davide Soldà, Francesco Fabiano, and Agostino Dovier. “ECHO: A hierarchical combination of classical and multi-agent epistemic planning problems.” In: *J. Log. Comput.* 33.8 (2023), pp. 1804–1831. DOI: 10.1093/LOGCOM/EXAD036.
- [J4] Francesco Fabiano and Alessandro Dal Palù. “An ASP approach for arteries classification in CT scans.” In: *J. Log. Comput.* 32.2 (2022), pp. 331–346. DOI: 10.1093/LOGCOM/EXAB087.
- [J5] Alessandro Burigana et al. “Modelling Multi-Agent Epistemic Planning in ASP.” In: *Theory Pract. Log. Program.* 20.5 (2020), pp. 593–608. DOI: 10.1017/S1471068420000289.

Conference Papers

- [C1] Flavio Bertini et al. “Concept2Text: An Explainable Multilingual Rewriting of Concepts into Natural Language.” In: *Proceedings of the 39th Italian Conference on Computational Logic, Rome, Italy, June 26-28, 2024*. 2024. URL: <https://ceur-ws.org/Vol-3733/paper14.pdf>.
- [C2] Flavio Bertini et al. “Data2Concept2Text: An Explainable Multilingual Framework for Data Analysis Narration.” In: *Proceedings 40th International Conference on Logic Programming, ICLP 2024, University of Texas at Dallas, Dallas Texas, USA, October 14-17 2024*. 2024, pp. 139–152. DOI: 10.4204/EPTCS.416.13.
- [C3] David Buckingham et al. “Action Language mA* with Higher-Order Action Observability.” In: *Proceedings of the 21st International Conference on Principles of Knowledge Representation and Reasoning, KR 2024, Hanoi, Vietnam, November 2-8, 2024*. 2024. DOI: 10.24963/KR.2024/20.
- [C4] Francesco Fabiano et al. “H-EFP: Bridging Efficiency in Multi-agent Epistemic Planning with Heuristics.” In: *PRIMA 2024: Principles and Practice of Multi-Agent Systems - 25th International Conference, Kyoto, Japan, November 18-24, 2024, Proceedings*. 2024, pp. 81–86. DOI: 10.1007/978-3-031-77367-9_7.
- [C5] Vishal Pallagani et al. “On the Prospects of Incorporating Large Language Models (LLMs) in Automated Planning and Scheduling (APS).” In: *Proceedings of the Thirty-Fourth International Conference on Automated Planning and Scheduling, ICAPS 2024, Banff, Alberta, Canada, June 1-6, 2024*. 2024, pp. 432–444. DOI: 10.1609/ICAPS.V34I1.31503.
- [C6] Marianna Bergamaschi Ganapini et al. “Value-based Fast and Slow AI Nudging.” In: *Proceedings of the Workshop on Ethics and Trust in Human-AI Collaboration: Socio-Technical Approaches (ETHAICS 2023) co-located with 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023) Macao, August 21, 2023., Macao, August 21, 2023*. 2023. URL: <https://ceur-ws.org/Vol-3547/paper6.pdf>.
- [C7] Vishal Pallagani et al. “Plansformer Tool: Demonstrating Generation of Symbolic Plans Using Transformers.” In: *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence, IJCAI 2023, 19th-25th August 2023, Macao, SAR, China*. 2023, pp. 7158–7162. DOI: 10.24963/IJCAI.2023/839.
- [C8] Flavio Bertini et al. “CARING for xAI.” In: *Proceedings of the 37th Italian Conference on Computational Logic, Bologna, Italy, June 29 - July 1, 2022*. 2022, pp. 47–60. URL: https://ceur-ws.org/Vol-3204/paper_5.pdf.

- [C9] Alessandro Burigana and Francesco Fabiano. “The Epistemic Planning Domain Definition Language (Short Paper).” In: *Proceedings of the 10th Italian workshop on Planning and Scheduling (IPS 2022), RCRA Incontri E Confronti (RiCeRcA 2022), and the workshop on Strategies, Prediction, Interaction, and Reasoning in Italy (SPIRIT 2022) co-located with 21st International Conference of the Italian Association for Artificial Intelligence (AIxIA 2022), November 28 - December 2, 2022, University of Udine, Udine, Italy*. 2022. URL: https://ceur-ws.org/Vol-3345/paper5_2497.pdf.
- [C10] Marianna Bergamaschi Ganapini et al. “Combining Fast and Slow Thinking for Human-like and Efficient Decisions in Constrained Environments.” In: *Proceedings of the 16th International Workshop on Neural-Symbolic Learning and Reasoning as part of the 2nd International Joint Conference on Learning & Reasoning (IJCLR 2022), Cumberland Lodge, Windsor Great Park, UK, September 28-30, 2022*. 2022, pp. 171–185. URL: <https://ceur-ws.org/Vol-3212/paper12.pdf>.
- [C11] Marianna Bergamaschi Ganapini et al. “Thinking Fast and Slow in AI: The Role of Metacognition.” In: *Machine Learning, Optimization, and Data Science - 8th International Workshop, LOD 2022, Certosa di Pontignano, Italy, September 19-22, 2022, Revised Selected Papers, Part II*. 2022, pp. 502–509. DOI: 10.1007/978-3-031-25891-6_38.
- [C12] Davide Soldà, Francesco Fabiano, and Agostino Dovier. “Epistemic Multiagent Reasoning with Collaborative Robots.” In: *Proceedings of the 37th Italian Conference on Computational Logic, Bologna, Italy, June 29 - July 1, 2022*. 2022, pp. 32–46. URL: https://ceur-ws.org/Vol-3204/paper_4.pdf.
- [C13] Grady Booch et al. “Thinking Fast and Slow in AI.” In: *Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021*. 2021, pp. 15042–15046. DOI: 10.1609/AAAI.V35I17.17765.
- [C14] Francesco Fabiano. “Comprehensive Multi-Agent Epistemic Planning.” In: *Proceedings 37th International Conference on Logic Programming (Technical Communications), ICLP Technical Communications 2021, Porto (virtual event), 20-27th September 2021*. 2021, pp. 248–257. DOI: 10.4204/EPTCS.345.41.
- [C15] Francesco Fabiano et al. “Epistemic Planning in a Fast and Slow Setting.” In: *Proceedings of the Thinking Fast and Slow and Other Cognitive Theories in AI, a AAAI 2022 Fall Symposium, Westin Arlington Gateway in Arlington, Virginia, November 17-19, 2022*. 2021. URL: <https://ceur-ws.org/Vol-3332/paper7.pdf>.
- [C16] Francesco Fabiano et al. “Multi-agent Epistemic Planning with Inconsistent Beliefs, Trust and Lies.” In: *PRICAI 2021: Trends in Artificial Intelligence - 18th Pacific Rim International Conference on Artificial Intelligence, PRICAI 2021, Hanoi, Vietnam, November 8-12, 2021, Proceedings, Part I*. 2021, pp. 586–597. DOI: 10.1007/978-3-030-89188-6_44.
- [C17] Marianna Bergamaschi Ganapini et al. “Combining Fast and Slow Thinking for Human-like and Efficient Navigation in Constrained Environments.” In: *Proceedings of the Thinking Fast and Slow and Other Cognitive Theories in AI, a AAAI 2022 Fall Symposium, Westin Arlington Gateway in Arlington, Virginia, November 17-19, 2022*. 2021. URL: <https://ceur-ws.org/Vol-3332/paper10.pdf>.
- [C18] Francesco Fabiano. “Towards a Complete Characterization of Epistemic Reasoning: the Notion of Trust.” In: *Proceedings of the 35th Italian Conference on Computational Logic - CILC 2020, Rende, Italy, October 13-15, 2020*. 2020, pp. 21–35. URL: <https://ceur-ws.org/Vol-2710/paper2.pdf>.
- [C19] Francesco Fabiano and Alessandro Dal Palù. “An ASP Approach for Arteries Classification in CT-scans.” In: *Proceedings of the 35th Italian Conference on Computational Logic - CILC 2020, Rende, Italy, October 13-15, 2020*. 2020, pp. 312–326. URL: <https://ceur-ws.org/Vol-2710/paper20.pdf>.
- [C20] Francesco Fabiano et al. “EFP 2.0: A Multi-Agent Epistemic Solver with Multiple E-State Representations.” In: *Proceedings of the Thirtieth International Conference on Automated Planning and Scheduling, Nancy, France, October 26-30, 2020*. 2020, pp. 101–109. URL: <https://ojs.aaai.org/index.php/ICAPS/article/view/6650>.
- [C21] Francesco Fabiano. “Design of a Solver for Multi-Agent Epistemic Planning.” In: *Proceedings 35th International Conference on Logic Programming (Technical Communications), ICLP 2019 Technical Communications, Las Cruces, NM, USA, September 20-25, 2019*. 2019, pp. 403–412. DOI: 10.4204/EPTCS.306.54.
- [C22] Francesco Fabiano et al. “Non-Well-Founded Set Based Multi-Agent Epistemic Action Language.” In: *Proceedings of the 34th Italian Conference on Computational Logic, Trieste, Italy, June 19-21, 2019*, pp. 242–259. URL: <https://ceur-ws.org/Vol-2396/paper38.pdf>.
- [C23] Tiep Le et al. “EFP and PG-EFP: Epistemic Forward Search Planners in Multi-Agent Domains.” In: *Proceedings of the Twenty-Eighth International Conference on Automated Planning and Scheduling, ICAPS 2018, Delft, The Netherlands, June 24-29, 2018*. 2018, pp. 161–170. URL: <https://aaai.org/ocs/index.php/ICAPS/ICAPS18/paper/view/17733>.

Technical Reports and Preprints

- [T1] Alessandro Abate et al. “Best-Effort Policies for Robust Markov Decision Processes”. In: *CoRR* abs/2508.07790 (2025). DOI: 10.48550/ARXIV.2508.07790. arXiv: 2508.07790.

- [T2] Giovanni Briglia, Francesco Fabiano, and Stefano Mariani. “Scaling Multi-Agent Epistemic Planning through GNN-Derived Heuristics”. In: *CoRR* abs/2508.12840 (2025). DOI: 10.48550/ARXIV.2508.12840. arXiv: 2508.12840.
- [T3] Frederik Baymler Mathiesen et al. “Certified Neural Approximations of Nonlinear Dynamics”. In: *CoRR* abs/2505.15497 (2025). DOI: 10.48550/ARXIV.2505.15497. arXiv: 2505.15497.
- [T4] Vishal Pallagani et al. *On the Prospects of Incorporating Large Language Models (LLMs) in Automated Planning and Scheduling (APS)*. 2024. DOI: 10.48550/ARXIV.2401.02500.
- [T5] Francesco Fabiano et al. *Fast and Slow Planning*. 2023. DOI: 10.48550/ARXIV.2303.04283.
- [T6] Marianna Bergamaschi Ganapini et al. *Value-based Fast and Slow AI Nudging*. 2023. DOI: 10.48550/ARXIV.2307.07628.
- [T7] Vishal Pallagani et al. *Understanding the Capabilities of Large Language Models for Automated Planning*. 2023. DOI: 10.48550/ARXIV.2305.16151.
- [T8] Marianna Bergamaschi Ganapini et al. *Combining Fast and Slow Thinking for Human-like and Efficient Navigation in Constrained Environments*. 2022. URL: <https://arxiv.org/abs/2201.07050>.
- [T9] Vishal Pallagani et al. *Plansformer: Generating Symbolic Plans using Transformers*. 2022. DOI: 10.48550/ARXIV.2212.08681.
- [T10] Francesco Fabiano et al. *E-PDDL: A Standardized Way of Defining Epistemic Planning Problems*. 2021. URL: <https://arxiv.org/abs/2107.08739>.
- [T11] Marianna Bergamaschi Ganapini et al. *Thinking Fast and Slow in AI: the Role of Metacognition*. 2021. URL: <https://arxiv.org/abs/2110.01834>.
- [T12] Grady Booch et al. *Thinking Fast and Slow in AI*. 2020. URL: <https://arxiv.org/abs/2010.06002>.
- [T13] Alessandro Burigana et al. *Modelling Multi-Agent Epistemic Planning in ASP*. 2020. URL: <https://arxiv.org/abs/2008.03007>.