

# Carlo Taticchi

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Carlo Taticchi is a postdoc at the Department of Mathematics and Computer Science at the University of Perugia. He received his PhD in Computer Science from the Gran Sasso Science Institute in 2021. His research activities are mainly focused on Artificial Intelligence and, in particular, on Argumentation Theory, a discipline that studies and formalises the human way of reasoning. He is a member of the CINI Cyber Security Research Lab UniPG, and the Knowledge Representation and Automated Reasoning Lab.

## Education

- 2017 – 2021 **Ph.D. in Computer Science**, *Gran Sasso Science Institute*, L'Aquila, Italy, Final mark: excellent  
Thesis title: "*Handling Dynamic Aspects of Argumentation*". Advisors: Prof. Stefano Bistarelli (University of Perugia), Prof. Luca Aceto (Reykjavik University, Iceland). Mid term reviewers: Prof. Rocco De Nicola (Institutions Markets Technologies, Lucca), Prof. Henry Prakken (Utrecht University and University of Groningen, the Netherlands). Final Reviewers: Prof. Anthony Hunter (University College London), Prof. Guillermo R. Simari (South National University, Bahía Blanca, Argentina).
- 2015 – 2017 **M.Sc. in Computer Science**, *University of Perugia*, Italy, Final mark: 110/110 (magna cum laude)  
Thesis title: "*Looking for Invariant Operators in Argumentation*". Advisor: Prof. Stefano Bistarelli (University of Perugia).
- 2012 – 2015 **B.Sc. in Computer Science**, *University of Perugia*, Italy, Final mark: 110/110 (magna cum laude)  
Thesis title: "*Design and development of a web interface for ConArg*". Advisor: Prof. Stefano Bistarelli (University of Perugia).

## Teaching Activity

- 2021 – 2022 **Lecturer**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 42 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2021 **Co-supervisor**, *University of Perugia*, Italy  
Alessio Mancinelli, *An Argumentative Explanation of Machine Learning Outcomes* - SSD: INF/01 - Master degree in Computer Science.

- 2020 – **Cultore della Materia, course of “Informatica”**, Department present of Mathematics and Computer Science, University of Perugia, Italy  
SSD: INF/01
- 2020 – 2021 **Lecturer**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 42 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2019 – **Cultore della Materia, course of “Programmazione Dichiarativa”**, Department of Mathematics and Computer Science, present University of Perugia, Italy  
SSD: INF/01
- 2019 – **Cultore della Materia, course of “Sistemi con Vincoli e Rappresentazione della Conoscenza”**, Department of Mathematics and Computer Science, University of Perugia, Italy present  
SSD: INF/01
- 2019 – 2020 **Tutor**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 60 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2018 – **Cultore della Materia, course of “Strumenti per il Web e Data Management”**, Department of Political Science, University present of Perugia, Italy  
SSD: INF/01
- 2018 – 2019 **Tutor**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 60 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2017 – 2018 **Tutor**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 60 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2016 – 2017 **Tutor**, *University of Perugia*, Italy  
Course of *Programmazione I* - SSD: INF/01, 60 hours - Bachelor's degree in Computer Science.
- 2015 – 2016 **Tutor**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 60 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2014 – 2015 **Tutor**, *University of Perugia*, Italy  
Course of *Strumenti per il Web e Data Management* - SSD: INF/01, 60 hours - Master degree in Comunicazione Pubblica, digitale e d'impresa.
- 2013 – **Member of Applab**, *University of Perugia*, Italy present  
Internal group of the Department of Mathematics and Computer Science of the University of Perugia, whose purpose is to carry out laboratory activities aimed at theses and internships.  
[applab.dmi.unipg.it](http://applab.dmi.unipg.it)

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## Research Activity

### Participation in Research Groups

- 2020 – **AIxIA Argumentation Group: National Research Group on present Argumentation**  
SSD: INF/01 - A working group of the Italian Association for Artificial Intelligence (AIxIA).  
[sites.google.com/a/aixia.it/argomentazione](https://sites.google.com/a/aixia.it/argomentazione)
- 2018 – **Cyber Security Research Lab: Research Group on Cyberse- present curity of the University of Perugia**  
SSD: INF/01 - The Lab is a member of the CINI National Cybersecurity Lab.  
[cybersecuritylab.unipg.it](https://cybersecuritylab.unipg.it)
- 2018 – **Knowledge Representation and Automated Reasoning Lab present (KRARLab): Research Group of the Department of Mathematics Computer Science of the University of Perugia**  
SSD: INF/01 - The Lab is a member of the the CINI National Artificial intelligence and Intelligent Systems Lab, and of the Confederation of Laboratories for Artificial Intelligence Research in Europe (CLAIRE).  
[krarlab.dmi.unipg.it](https://krarlab.dmi.unipg.it)

### Participation in Research Projects

- 2021 – 2022 **DOPUP: Dop Olive oil for a new Presence of Umbria on the Planet**  
SSD: INF/01 - Founded by Regione Umbria.
- 2018 – 2020 **Agrichain: Utilizzo di tecnologie Block-chain per il controllo della filiera di prodotti agro-alimentari e la prevenzione di frodi commerciali**  
SSD: INF/01 - Founded by Fondazione Cassa di Risparmio di Perugia.  
[agrichain.dmi.unipg.it](https://agrichain.dmi.unipg.it)

### Collaborations

- 2022 Progetto LCAPT - Low Cost Advanced Products Tracking based on NFC Technology.
- 2022 Progetto CarnePRI - La Pezzata Rossa in Friuli Venezia Giulia: innovazione di processo e di prodotto per sviluppare la filiera della carne di qualità.

## Visiting

2019 TU Wien, Vienna, Austria. Host: Prof. Stefan Woltran. September – December 2019.

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## Publications

### Editorships

- [1] Henry Prakken, Stefano Bistarelli, Francesco Santini, and Carlo Taticchi, eds. *Computational Models of Argument - Proceedings of COMMA 2020, Perugia, Italy, September 4-11, 2020*. Vol. 326. *Frontiers in Artificial Intelligence and Applications*. IOS Press, 2020. ISBN: 978-1-64368-106-1.

### Journal Articles

- [1] Stefano Bistarelli and Carlo Taticchi. "A Labelling Semantics and Strong Admissibility for Weighted Argumentation Frameworks". In: *J. Log. Comput.* 32.2 (2022), pp. 281–306.
- [2] Stefano Bistarelli, Lars Kotthoff, Francesco Santini, and Carlo Taticchi. "Summary Report for the Third International Competition On Computational Models of Argumentation". In: *AI Mag.* 42.3 (2021), pp. 70–73.
- [3] Stefano Bistarelli and Carlo Taticchi. "Power index-based semantics for ranking arguments in abstract argumentation frameworks". In: *Intelligenza Artificiale* 13.2 (2019), pp. 137–154.

### Conference Papers

- [1] Stefano Bistarelli, Maria Chiara Meo, and Carlo Taticchi. "Timed Concurrent Language for Argumentation: An Interleaving Approach". In: *Practical Aspects of Declarative Languages - 24th International Symposium, PADL 2022, Philadelphia, PA, USA, January 17-18, 2022, Proceedings*. Ed. by James Cheney and Simona Perri. Vol. 13165. *Lecture Notes in Computer Science*. Springer, 2022, pp. 101–116.
- [2] Stefano Bistarelli, Maria Chiara Meo, and Carlo Taticchi. "Concurrent Argumentation with Time: an Overview". In: *Proceedings of the 5th Workshop on Advances in Argumentation in Artificial Intelligence 2021 co-located with the 20th International Conference of the Italian Association for Artificial Intelligence (AlxIA 2021), Milan, Italy, November 29th, 2021*. Ed. by Marcello D'Agostino, Fabio Aurelio D'Asaro, and Costanza Larese. Vol. 3086. *CEUR Workshop Proceedings*. CEUR-WS.org, 2021.

- [3] Stefano Bistarelli, Carlo Taticchi, and Francesco Santini. "A Chatbot Extended with Argumentation". In: *Proceedings of the 5th Workshop on Advances in Argumentation in Artificial Intelligence 2021 co-located with the 20th International Conference of the Italian Association for Artificial Intelligence (AlxIA 2021), Milan, Italy, November 29th, 2021*. Ed. by Marcello D'Agostino, Fabio Aurelio D'Asaro, and Costanza Larese. Vol. 3086. CEUR Workshop Proceedings. CEUR-WS.org, 2021.
- [4] Carlo Taticchi. "A Concurrent Language for Negotiation and Debate with Argumentation". In: *AAMAS '21: 20th International Conference on Autonomous Agents and Multiagent Systems, Virtual Event, United Kingdom, May 3-7, 2021*. Ed. by Frank Dignum, Alessio Lomuscio, Ulle Endriss, and Ann Nowé. ACM, 2021, pp. 1840–1841.
- [5] Stefano Bistarelli, Maria Chiara Meo, and Carlo Taticchi. "Timed Concurrent Language for Argumentation". In: *Proceedings of the 36th Italian Conference on Computational Logic, Parma, Italy, September 7-9, 2021*. Ed. by Stefania Monica and Federico Bergenti. Vol. 3002. CEUR Workshop Proceedings. CEUR-WS.org, 2021, pp. 1–15.
- [6] Carlo Taticchi and Stefano Bistarelli. "Extending Labelling Semantics to Weighted Argumentation Frameworks". In: *Proceedings of the Thirty-Fourth International Florida Artificial Intelligence Research Society Conference, North Miami Beach, Florida, USA, May 17-19, 2021*. Ed. by Eric Bell and Fazel Keshtkar. 2021.
- [7] Stefano Bistarelli and Carlo Taticchi. "A Unifying Four-State Labelling Semantics for Bridging Abstract Argumentation Frameworks and Belief Revision". In: *Proceedings of the 22nd Italian Conference on Theoretical Computer Science, Bologna, Italy, September 13-15, 2021*. Ed. by Claudio Sacerdoti Coen and Ivano Salvo. Vol. 3072. CEUR Workshop Proceedings. CEUR-WS.org, 2021, pp. 93–106.
- [8] Stefano Bistarelli and Carlo Taticchi. "Introducing a Tool for Concurrent Argumentation". In: *Logics in Artificial Intelligence - 17th European Conference, JELIA 2021, Virtual Event, May 17-20, 2021, Proceedings*. Ed. by Wolfgang Faber, Gerhard Friedrich, Martin Gebser, and Michael Morak. Vol. 12678. Lecture Notes in Computer Science. Springer, 2021, pp. 18–24.
- [9] Stefano Bistarelli and Carlo Taticchi. "A Concurrent Language for Argumentation". In: *Proceedings of the Workshop on Advances In Argumentation In Artificial Intelligence 2020 co-located with the 19th International Conference of the Italian Association for Artificial Intelligence (AlxIA 2020), Online, November 25-26, 2020*. Ed. by Bettina Fazzinga, Filippo Furfaro, and Francesco Parisi. Vol. 2777. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 75–89.

- [10] Stefano Bistarelli, Lars Kotthoff, Francesco Santini, and Carlo Taticchi. "A First Overview of ICCMA'19". In: *Proceedings of the Workshop on Advances In Argumentation In Artificial Intelligence 2020 co-located with the 19th International Conference of the Italian Association for Artificial Intelligence (AIxIA 2020), Online, November 25-26, 2020*. Ed. by Bettina Fazzinga, Filippo Furfaro, and Francesco Parisi. Vol. 2777. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 90–102.
- [11] Stefano Bistarelli and Carlo Taticchi. "Towards an Implementation of a Concurrent Language for Argumentation". In: *AIxIA 2020 - Advances in Artificial Intelligence - XIXth International Conference of the Italian Association for Artificial Intelligence, Virtual Event, November 25-27, 2020, Revised Selected Papers*. Ed. by Matteo Baldoni and Stefania Bandini. Vol. 12414. Lecture Notes in Computer Science. Springer, 2020, pp. 154–171.
- [12] Stefano Bistarelli and Carlo Taticchi. "A Concurrent Language for Argumentation: Preliminary Notes". In: *Recent Developments in the Design and Implementation of Programming Languages, Gabrielli's Festschrift, November 27, 2020, Bologna, Italy*. Ed. by Frank S. de Boer and Jacopo Mauro. Vol. 86. OASlcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020, 9:1–9:22.
- [13] Stefano Bistarelli and Carlo Taticchi. "A Labelling Semantics for Weighted Argumentation Frameworks". In: *Proceedings of the 35th Italian Conference on Computational Logic - CILC 2020, Rende, Italy, October 13-15, 2020*. Ed. by Francesco Calimeri, Simona Perri, and Ester Zumpano. Vol. 2710. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 263–277.
- [14] Stefano Bistarelli, Wolfgang Dvorák, Carlo Taticchi, and Stefan Woltran. "Ranking-Based Semantics from the Perspective of Claims". In: *Computational Models of Argument - Proceedings of COMMA 2020, Perugia, Italy, September 4-11, 2020*. Ed. by Henry Prakken, Stefano Bistarelli, Francesco Santini, and Carlo Taticchi. Vol. 326. Frontiers in Artificial Intelligence and Applications. IOS Press, 2020, pp. 111–122.
- [15] Stefano Bistarelli and Carlo Taticchi. "Preliminary Study on Reinstatement Labelling for Weighted Argumentation Frameworks". In: *Proceedings of the 3rd Workshop on Advances In Argumentation In Artificial Intelligence co-located with the 18th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2019), Rende, Italy, November 19-22, 2019*. Ed. by Francesco Santini and Alice Toniolo. Vol. 2528. CEUR Workshop Proceedings. CEUR-WS.org, 2019, pp. 45–49.
- [16] Carlo Taticchi. "Power Index-Based Semantics for Ranking Arguments in Abstract Argumentation Frameworks: an Overview". In: *Discussion and Doctoral Consortium papers of AI\*IA 2019 - 18th International Conference*

- of the Italian Association for Artificial Intelligence, Rende, Italy, November 19-22, 2019*. Ed. by Mario Alviano, Gianluigi Greco, Marco Maratea, and Francesco Scarcello. Vol. 2495. CEUR Workshop Proceedings. CEUR-WS.org, 2019, pp. 113–118.
- [17] Stefano Bistarelli, Francesco Faloci, Francesco Santini, and Carlo Taticchi. “A Tool For Ranking Arguments Through Voting-Games Power Indexes”. In: *Proceedings of the 34th Italian Conference on Computational Logic, Trieste, Italy, June 19-21, 2019*. Ed. by Alberto Casagrande and Eugenio G. Omodeo. Vol. 2396. CEUR Workshop Proceedings. CEUR-WS.org, 2019, pp. 193–201.
- [18] Stefano Bistarelli, Francesco Faloci, and Carlo Taticchi. “Implementing Ranking-Based Semantics in ConArg”. In: *31st IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2019, Portland, OR, USA, November 4-6, 2019*. IEEE, 2019, pp. 1180–1187.
- [19] Stefano Bistarelli, Theofrastos Mantadelis, Francesco Santini, and Carlo Taticchi. “Using MetaProbLog and ConArg to compute Probabilistic Argumentation Frameworks”. In: *Proceedings of the 2nd Workshop on Advances In Argumentation In Artificial Intelligence, co-located with XVII International Conference of the Italian Association for Artificial Intelligence, AI<sup>3</sup>@AI\*IA 2018, 20-23 November 2018, Trento, Italy*. Ed. by Pierpaolo Dondio and Luca Longo. Vol. 2296. CEUR Workshop Proceedings. CEUR-WS.org, 2018, pp. 6–10.
- [20] Stefano Bistarelli, Paolo Giuliadori, Francesco Santini, and Carlo Taticchi. “A Cooperative-game Approach to Share Acceptability and Rank Arguments”. In: *Proceedings of the 2nd Workshop on Advances In Argumentation In Artificial Intelligence, co-located with XVII International Conference of the Italian Association for Artificial Intelligence, AI<sup>3</sup>@AI\*IA 2018, 20-23 November 2018, Trento, Italy*. Ed. by Pierpaolo Dondio and Luca Longo. Vol. 2296. CEUR Workshop Proceedings. CEUR-WS.org, 2018, pp. 86–90.
- [21] Stefano Bistarelli, Francesco Santini, and Carlo Taticchi. “Local Expansion Invariant Operators in Argumentation Semantics”. In: *Dynamics, Uncertainty and Reasoning, The Second Chinese Conference on Logic and Argumentation, CLAR 2018, Hangzhou, China, 16-17 June 2018*. Ed. by Beishui Liao, Thomas Ågotnes, and Yi N. Wáng. Springer, 2018, pp. 45–62.
- [22] Stefano Bistarelli, Lars Kotthoff, Francesco Santini, and Carlo Taticchi. “Containerisation and Dynamic Frameworks in ICCMA'19”. In: *Proceedings of the Second International Workshop on Systems and Algorithms for Formal Argumentation (SAFA 2018) co-located with the 7th International Conference on Computational Models of Argument (COMMA 2018), Warsaw, Poland, September 11, 2018*. Ed. by Matthias Thimm, Federico

- Cerutti, and Mauro Vallati. Vol. 2171. CEUR Workshop Proceedings. CEUR-WS.org, 2018, pp. 4–9.
- [23] Stefano Bistarelli, Francesco Faloci, Francesco Santini, and Carlo Taticchi. “Studying Dynamics in Argumentation with Rob”. In: *Computational Models of Argument - Proceedings of COMMA 2018, Warsaw, Poland, 12-14 September 2018*. Ed. by Sanjay Modgil, Katarzyna Budzynska, and John Lawrence. Vol. 305. Frontiers in Artificial Intelligence and Applications. IOS Press, 2018, pp. 451–452.
- [24] Stefano Bistarelli, Alessandra Tappini, and Carlo Taticchi. “A Matrix Approach for Weighted Argumentation Frameworks”. In: *Proceedings of the Thirty-First International Florida Artificial Intelligence Research Society Conference, FLAIRS 2018, Melbourne, Florida, USA. May 21-23 2018*. Ed. by Keith Brawner and Vasile Rus. AAAI Press, 2018, pp. 507–512.
- [25] Stefano Bistarelli, Francesco Santini, and Carlo Taticchi. “On Looking for Invariant Operators in Argumentation Semantics”. In: *Proceedings of the Thirty-First International Florida Artificial Intelligence Research Society Conference, FLAIRS 2018, Melbourne, Florida, USA. May 21-23 2018*. Ed. by Keith Brawner and Vasile Rus. AAAI Press, 2018, pp. 537–540.
- [26] Stefano Bistarelli, Theofrastos Mantadelis, Francesco Santini, and Carlo Taticchi. “Probabilistic Argumentation Frameworks with MetaProbLog and ConArg”. In: *IEEE 30th International Conference on Tools with Artificial Intelligence, ICTAI 2018, 5-7 November 2018, Volos, Greece*. Ed. by Lefteri H. Tsoukalas, Éric Grégoire, and Miltiadis Alamaniotis. IEEE, 2018, pp. 675–679.
- [27] Carlo Taticchi. “A Study of Robustness in Abstract Argumentation Frameworks”. In: *Proceedings of the Doctoral Consortium of AI\*IA 2016 co-located with the 15th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2016), Genova, Italy, November 29, 2016*. Ed. by Viviana Mascardi and Ilaria Torre. Vol. 1769. CEUR Workshop Proceedings. CEUR-WS.org, 2016, pp. 11–16.
- [28] Stefano Bistarelli, Fabio Rossi, Francesco Santini, and Carlo Taticchi. “Towards visualising security with arguments”. In: *Proceedings of the 30th Italian Conference on Computational Logic, Genova, Italy, July 1-3, 2015*. Ed. by Davide Ancona, Marco Maratea, and Viviana Mascardi. Vol. 1459. CEUR Workshop Proceedings. CEUR-WS.org, 2015, pp. 197–201.



## Invited Seminars and Conference Presentations

### Invited Seminars

- 2018
  - A Matrix Based Approach for Weighted Argumentation Frameworks. Gran Sasso Science Institute (Italy). 7 June 2018. (ref.) Prof. Luca Aceto.
  - Acceptability Paradigms in Abstract Argumentation Frameworks. Dept. of Computer Science and Mathematics, University of Perugia (Italy). 25 November 2018. (ref.) Prof. Stefano Bistarelli.
- 2017
  - Looking for Invariant Operators in Argumentation. Dept. of Computer Science and Mathematics, University of Perugia (Italy). 20 December 2017. (ref.) Prof. Stefano Bistarelli.

### Conference Presentations

- 2022
  - Explanation of Machine Learning Outcomes through Argumentation. Ital-IA 2022 - secondo Convegno Nazionale CINI sull'Intelligenza Artificiale. Torino, Italy, February 9–11 2022.
  - Timed Concurrent Language for Argumentation: an Interleaving Approach. PADL 2022, 24<sup>th</sup> International Symposium on Practical Aspects of Declarative Languages, Philadelphia, Pennsylvania, United States, 17–18 January 2022.
- 2021
  - A Chatbot Extended with Argumentation. AI<sup>3</sup>@AIxIA 2021, 5<sup>th</sup> Workshop on Advances In Argumentation In Artificial Intelligence, Online, 29 November 2021.
  - Concurrent Argumentation with Time: an Overview. AI<sup>3</sup>@AIxIA 2021, 5<sup>th</sup> Workshop on Advances In Argumentation In Artificial Intelligence, Online, 29 November 2021.
  - A Unifying Four-State Labelling Semantics for Bridging Abstract Argumentation Frameworks and Belief Revision. ICTCS 2021, 22<sup>nd</sup> Italian Conference on Theoretical Computer Science, Bologna (Italy), 13 – 15 September 2021.
  - Timed Concurrent Language for Argumentation. CILC 2021, 36<sup>th</sup> Edition of the Italian Conference on Computational Logic. Parma (Italy), 7 – 9 September 2021.

- Introducing a Tool for Concurrent Argumentation. JELIA 2021, 17<sup>th</sup> Edition of the European Conference on Logics in Artificial Intelligence. Online, hosted by University of Klagenfurt (Austria), 17 – 20 May 2021.
  - Extending Labelling Semantics to Weighted Argumentation Frameworks. FLAIRS-34, the 34<sup>st</sup> International Florida Artificial Intelligence Research Society Conference. North Miami Beach, Florida (USA), 17 – 19 May 2021.
  - A Concurrent Language for Negotiation and Debate with Argumentation. AAMAS 2021, the 20<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems. Online, 3 – 7 May 2021.
- 2020
- A Concurrent Language for Argumentation. AlxIA 2020, The 19<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence, Online, 25 – 27 November 2020.
  - A Labelling Semantics for Weighted Argumentation Frameworks. CILC 2020, 35<sup>th</sup> Edition of the Italian Conference on Computational Logic. Rende (Italy), 13 – 15 October 2020.
  - Ranking-Based Semantics from the Perspective of Claims. COMMA 2020, 8<sup>th</sup> International Conference on Computational Models of Argument. Perugia (Italy), 8 – 11 September 2020.
- 2019
- Preliminary Study on Reinstatement Labelling for Weighted Argumentation Frameworks. AlxIA 2019, 18<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence, Rende (Italy). 19 – 22 November 2019.
  - Power Index-Based Semantics for Ranking Arguments in Abstract Argumentation Frameworks: an Overview. AlxIA 2019 Doctoral Consortium, 18<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence, Rende (Italy). 22 November 2019.
  - Implementing Ranking-Based Semantics in ConArg. ICTAI 2019, 31<sup>st</sup> International Conference on Tools with Artificial Intelligence, Portland, Oregon (USA). November 4 – 6, 2019.
  - A Tool for Ranking Arguments Through Voting-Games Power Indexes. CILC 2019 - 34<sup>th</sup> Italian Conference on Computational Logic, Trieste (Italy). 19-21 June 2019.
  - A cooperative-game approach to share acceptability and rank arguments. 2<sup>nd</sup> Workshop on New Trends in Formal Argumentation, TU Wien (Austria). 30 April 2019.

- 2018
  - A cooperative-game approach to share acceptability and rank arguments. AI<sup>3</sup>@AIxIA 2018, 2<sup>nd</sup> Workshop on Advances In Argumentation In Artificial Intelligence, Trento (Italy). November 2018.
  - Ph.D. Thesis Proposal: a Concurrent Argumentation Language for Negotiation and Debating. SSA 2018, 3<sup>rd</sup> Summer School on Argumentation: Computational and Linguistic Perspectives, Warsaw (Poland), September 6 – 10 2018.
  - Looking for Invariant Operators in Argumentation. FLAIRS-31, the 31<sup>st</sup> International Florida Artificial Intelligence Research Society Conference, Melbourne, Florida (USA). May 2018.
  
- 2016
  - A Study of Robustness in Abstract Argumentation Frameworks. AIxIA 2016 Doctoral Consortium, 15<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence - Genova (Italy), 28 November – 1 December 2016.

## Conference Participations

- 2022
  - Ital-IA 2022 - secondo Convegno Nazionale CINI sull'Intelligenza Artificiale. Torino, Italy, February 9–11 2022.
  - PADL 2022 - The 24<sup>th</sup> International Symposium on Practical Aspects of Declarative Languages. Philadelphia, Pennsylvania, United States, 17–18 January 2022.
  
- 2021
  - AIxIA 2021 - 20<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence. Online. December 1–3, 2021.
  - COST Action WG3 meeting: Argument technologies and public debate: the design perspective. Rome (Italy), 29 September – 1 October 2021.
  - ICTCS 2021, 22<sup>nd</sup> Italian Conference on Theoretical Computer Science. Bologna (Italy), 13–15 September 2021.
  - CILC 2021, 36<sup>th</sup> Edition of the Italian Conference on Computational Logic. Parma (Italy), 7 – 9 September 2021.
  - JELIA 2021, 17<sup>th</sup> Edition of the European Conference on Logics in Artificial Intelligence. Online, hosted by University of Klagenfurt (Austria), 17 – 20 May 2021.
  - FLAIRS-34, the 34<sup>st</sup> International Florida Artificial Intelligence Research Society Conference, North Miami Beach, Florida (USA), 17 – 19 May 2021.

- AAMAS 2021, the 20<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems. Online, 3 – 7 May 2021.
  - SAC 2021, the 36<sup>th</sup> ACM/SIGAPP Symposium On Applied Computing, Virtual Conference, 22 – 26 March 2021.
- 2020
- AIxIA 2020, the 19<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence, Anywhere, 25 – 27 November 2020.
  - CILC 2020, 35<sup>th</sup> Edition of the Italian Conference on Computational Logic. Rende (CS), Italy, 13 – 15 October 2020.
  - COMMA 2020, 8<sup>th</sup> International Conference on Computational Models of Argument. Perugia (PG), Italy, 8 – 11 September 2020.
- 2019
- AIxIA 2019, 18<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence, Rende (CS), Italy. 19 – 22 November 2019.
  - ICTAI 2019, 31<sup>st</sup> International Conference on Tools with Artificial Intelligence, Portland, Oregon. November 4 – 6, 2019.
  - AIAlliance 2019 - first European AI Alliance Assembly, Brussels, Belgium. 26 June 2019.
  - CILC 2019 - 34<sup>th</sup> Italian Conference on Computational Logic, Trieste, Italy. 19-21 June 2019.
  - NTFA'19 - 2<sup>nd</sup> Workshop on New Trends in Formal Argumentation, Vienna, Austria. April 2019.
  - Ital-IA 2019 - primo Convegno Nazionale CINI sull'Intelligenza Artificiale, Roma, Italy. March 2019.
  - DLT 2019 - 2<sup>nd</sup> Distributed Ledger Technology Workshop, Pisa, Italy. February 2019.
- 2018
- AIxIA 2018, Congress of the Italian Association for Artificial Intelligence, Trento, Italy. November 2018.
  - SSA 2018, 3<sup>rd</sup> Summer School on Argumentation: Computational and Linguistic Perspectives - Warsaw, September 6 – 10 2018.
  - FLAIRS-31, the 31<sup>st</sup> International Florida Artificial Intelligence Research Society Conference, Melbourne, Florida, USA. May 2018.

- 2016 ○ AIxIA 2016, 15<sup>th</sup> International Conference of the Italian Association for Artificial Intelligence - Genoa, 28 November – 1 December 2016.
- 2015 ○ CILC 2015, 30° Convegno Italiano di Logica Computazionale - Genova, July 1 – 3 2015.
- 2014 ○ AIxIA 2014, Artificial Intelligence for Society and Economy - Pisa, 10 – 12 December 2014.  
○ Todi Appy Days - Todi, September 28 2014.
- 2013 ○ CSS3 & HTML5, Developing cross device applications - Pisa, 31 May 2013.

## Grants and Scholarships

- CINI (Consorzio Interuniversitario Nazionale per l'Informatica) four months scholarship and research grant for activities related to the Node of the National Cybersecurity Laboratory of the UniPG research unit (knowledge representation and cybersecurity) for the Cyberchallenge.IT2021 project. Rif. CINI: CYCH21\_02/2021\_LNCS\_UNIPG
- AAMAS 2021 scholarship for the participation of students in the 20<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems. Presented paper: "A Concurrent Language for Negotiation and Debate with Argumentation".
- Italian Association for Artificial Intelligence (AIxIA) grant for the participation of students in the 18<sup>th</sup> Conference of the Italian Association for Artificial Intelligence (AIxIA 2019). Presented papers: "Preliminary Study on Reinstatement Labelling for Weighted Argumentation Frameworks" and "Power Index-Based Semantics for Ranking Arguments in Abstract Argumentation Frameworks: an Overview".
- Italian Association for Artificial Intelligence (AIxIA) grant for the participation of students in the 17<sup>th</sup> Conference of the Italian Association for Artificial Intelligence (AIxIA 2018). Presented papers: "A Cooperative-game Approach to Share Acceptability and Rank Arguments" and "Using MetaProbLog and ConArg to compute Probabilistic Argumentation Frameworks".

- Italian Association for Artificial Intelligence (AIxIA) grant for the participation of students in the 15<sup>th</sup> Conference of the Italian Association for Artificial Intelligence (AIxIA 2016). Presented paper: “A Study of Robustness in Abstract Argumentation Frameworks”.

## Organisation Committees

- 2021 ○ **Track Chair**, KRR@SAC2022 - Track on Knowledge Representation and Reasoning (part of the 37<sup>th</sup> ACM/SIGAPP Symposium On Applied Computing).
- 2020 ○ **Track Chair**, KRR@SAC2021 - Track on Knowledge Representation and Reasoning (part of the 36<sup>th</sup> ACM/SIGAPP Symposium On Applied Computing).
- **Publicity Chair**, COMMA 2020 - 8<sup>th</sup> International Conference on Computational Models of Argument.
- **Publicity Chair**, SSA 2020 - 4<sup>th</sup> Summer School on Argumentation.
- 2019 ○ **Organiser**, ICCMA 2019 - The Third International Competition on Computational Models of Argumentation.
- 2018 ○ **Organiser**, DLT 2018 - 1<sup>st</sup> Distributed Ledger Technology Workshop.

## Reviewer Activity

- |                          |                   |
|--------------------------|-------------------|
| ○ Int. J. Approx. Reason | ○ KRR@SAC 2022    |
| ○ FLAIRS 2022            | ○ ICAART 2022     |
| ○ AAAI 2022              | ○ AIxIA 2021      |
| ○ ICTAI 2021             | ○ AI4I 2021       |
| ○ CLAR 2021              | ○ CILC 2021       |
| ○ ICTAI 2021             | ○ ICTCS 2021      |
| ○ Intell. Artif. 2020    | ○ ITASEC 2021     |
| ○ AAAI 2021              | ○ AIxIA 2020      |
| ○ CILC 2020              | ○ AI4I 2020       |
| ○ ICTAI 2020             | ○ SAFA@COMMA 2020 |
| ○ COMMA 2020             | ○ GraMSec 2020    |
| ○ IJCAI 2020             | ○ AAMAS 2020      |
| ○ AI3@AIxIA 2019         | ○ PRIMA 2019      |

- AI4I 2019
- AIxIA 2019
- Euro-Par 2019
- AAMAS 2019
- CILC 2018
- GECON 2018
- IJCAI 2018
- ICTAI 2019
- post-CLAR 2018
- IJCAI 2019
- AI3@AIxIA 2018
- ICTAI 2018
- COMMA 2018
- M-PREF 2018

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## Research Tools

- ConArg language ([conarg.dmi.unipg.it/tcla-m](http://conarg.dmi.unipg.it/tcla-m)), a web tool for writing and running programs using a concurrent language based on argumentation; ref. publications [1, 2, 4, 8, 9, 11].
- ConArg Rob ([conarg.dmi.unipg.it/rob.html](http://conarg.dmi.unipg.it/rob.html)), a tool for visualizing the Argumentation Frameworks obtained by combinations of attacks between a fixed number of arguments, along with the relative extensions for all the supported semantics; ref. publications [23, 27].
- ConArg web interface ([conarg.dmi.unipg.it](http://conarg.dmi.unipg.it)), an interface for a Constraint Programming tool, able to solve various problems related to the Abstract Argumentation Frameworks; ref. publications [3, 17, 18, 26].