

# Dr Francesco BELARDINELLI

DATE AND PLACE OF BIRTH: 8 July 1978, Senigallia (Italy)  
NATIONALITY: Italian  
AFFILIATION: Department of Computing, Imperial College London  
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## CURRENT POSITION

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| 09/21 - | <b>Department of Computing, Imperial College London, UK</b><br>Senior Lecturer in Computer Science, head of the group in "Formal Methods in AI"<br>Lecturer since 10/18 |
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## PREVIOUS POSITIONS

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| 09/12-09/18 | <b>Laboratoire IBISC</b> – Informatique, Biologie Intégrative et Systèmes Complexes<br>Université d'Evry, France<br><i>Maître de Conférences HDR</i> in COMPUTER SCIENCE                                                          |
| 12/15-08/16 | <b>Department of Computing, Imperial College London, UK</b><br><i>Research Associate</i><br>Prof. Lomuscio's EPSRC Leadership Fellowship "Trusted Autonomous Systems"                                                             |
| 07/11-08/12 | <b>Department of Computing, Imperial College London, UK</b><br><i>Research Associate</i><br>EU STREP Project ACSI – Artifact-Centric Service Interoperation                                                                       |
| 07/09-07/11 | <b>Department of Computing, Imperial College London, UK</b><br><i>IEF Marie Curie Fellow</i><br>FoMMAS project: First-order Modal Logics for the Specification and Verification of Multi-Agent Systems                            |
| 07/07-07/09 | <b>Scuola Normale Superiore, Pisa, Italy</b><br><i>Post-Doc Researcher</i><br>Project <i>Logica Modale e Conoscenza</i> on epistemic and modal logics, their theoretical foundations, and applications in Artificial Intelligence |

## EDUCATION AND QUALIFICATIONS

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- 07/02/18 | **Qualification as *Professeur des Universités* (Full Professor)**  
*Conseil National des Universités*, France  
 Section 27 (COMPUTER SCIENCE)  
  
 The *Qualification as Professeur des Universités* is required in France to apply to professorships in the relevant areas.
- 10/02/17 | **Université d'Evry**, France  
**Habilitation à Diriger des Recherches** (HDR) in COMPUTER SCIENCE  
*Très Honorable avec avis de reproduction en état*  
 Dissertation on "Multi-agent Modal Logics for Knowledge Representation"  
  
 The *Habilitation à Diriger des Recherches* is required in France to supervise PhD students, as well as to apply to professorships.
- 17/02/12 | **Qualification as *Maître de Conférences* (Lecturer)**  
*Conseil National des Universités*, France  
 Section 27 (COMPUTER SCIENCE)  
 Section 17 (PHILOSOPHY)  
 Section 72 (EPISTEMOLOGY)  
  
 The *Qualification as Maître de Conférences* is required in France to apply to lecturships in the relevant areas.
- 04/07/06 | **Scuola Normale Superiore**, Italy  
*Diploma di Perfezionamento* (PhD) in LOGIC  
 70/70 *cum laude*  
 Dissertation on "Quantified Modal Logic and the Ontology of Physical Objects"
- 17/12/02 | **Scuola Normale Superiore**, Italy  
*Diploma di Licenza* in PHILOSOPHY  
 70/70 *cum laude*  
 Dissertation on "Modal Logic applied to the Theory of Deductive Systems"
- 08/07/02 | **University of Pisa**, Italy  
*Laurea Magistralis* (MA) in PHILOSOPHY  
 110/110 *cum laude*  
 Dissertation on "Semantical Aspects of Substructural Logics"

## RESEARCH FELLOWSHIPS & GRANTS (2009- )

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|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019-27 | <b>Centre for Doctoral Training in Safe and Trusted AI (STAI)</b><br>Deputy director since 10/24, co-director in charge of training and cohort development since 10/19.                                                                                                                                                                                               |
| 2023-25 | <b>EPSRC NIA Grant – <i>An Abstraction-based Technique for Safe Reinforcement Learning</i></b><br>Research project over 2 year supported by EPSRC.                                                                                                                                                                                                                    |
| 2024    | <b>Alan Turing Institute – <i>Exploration in Reinforcement Learning</i></b><br>Grant for a literature review.                                                                                                                                                                                                                                                         |
| 2018-21 | <b>ANR PRC project AGAPE – <i>an Auction language for General Auction PlayErs</i></b><br>Collaboration project with IRIT Toulouse, LAMSADE Paris, LIG Grenoble, LIPADE Paris<br>Research project over 3 years supported by the French National Agency for Research.                                                                                                   |
| 2020-21 | <b>EPSRC Travel Grant – <i>Strategy Logics for the Verification of Security Protocols</i></b><br>Collaboration project with Université Paris Est – Créteil.                                                                                                                                                                                                           |
| 2020-21 | <b>EPSRC Workshop Organisation Grant</b><br>Grant for the organisation of the <i>Third International Workshop on Formal Methods in Artificial Intelligence (FMAI2021)</i> .                                                                                                                                                                                           |
| 2017-20 | <b>ANR Jeunes Chercheuses/Jeunes Chercheurs Fellowship</b><br>SVeDaS Project: Specification and Verification of Data-aware Systems<br>Research project over 3 years supported by the French National Agency for Research                                                                                                                                              |
| 2019-20 | <b>Collaboration Projet Biatlon – <i>Bisimulations pour la logique temporelle alternante ATL avec applications en vote électRONique</i></b><br>Research grant by <i>Réseau Francilien de Sciences Informatiques (RFSI)</i> for a collaboration project with R. DEMANGEON (Université Pierre et Marie Curie), C. DIMA and D. VARACCA (Université Paris Est - Créteil). |
| 2018-19 | <b>Collaboration Projet MALEVéPS – <i>Modèles multi-Agents et Logiques Epistémiques pour la Vérification des Propriétés de Sécurité</i></b><br>Research grant by <i>Réseau Francilien de Sciences Informatiques (RFSI)</i> for a collaboration project with C. DIMA (Université Paris Est – Créteil).                                                                 |
| 2017-18 | <b>Collaboration Project ALESSO – <i>ATL avec Ressources</i></b><br>Research grant by <i>Université Paris Saclay</i> to foster collaboration between <i>Laboratoire IBISC, UEVE and LSV, ENS Cachan</i> .                                                                                                                                                             |
| 2016-17 | <b>Délégation au CNRS</b><br>Institut de Recherche en Informatique de Toulouse (IRIT)<br>ISSMA Project: Interaction Stratégique dans les Systèmes Multi-Agents<br>Visit fellowship at IRIT supported by the <i>Centre National de la Recherche Scientifique</i>                                                                                                       |
| 2015-18 | <b>PEDR – <i>Prime d'Encadrement Doctoral et de Recherche</i></b><br>French Ministry of Education and <i>Conseil National des Universités</i><br>Grant for past achievements in research and teaching                                                                                                                                                                 |
| 2009-11 | <b>IEF Marie Curie Fellowship, Framework Programme 7, European Commission</b><br>FoMMAS Project: First-order Modal Logics for the Specification and Verification of Multi-Agent Systems                                                                                                                                                                               |

## TEACHING (2013- )

|         |                                                                                                 |                                                                    |
|---------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 2019-25 | <b>Imperial College London</b> (48h)                                                            |                                                                    |
|         | Autumn Term                                                                                     | Lecture Introduction to Symbolic Artificial Intelligence (MSc)     |
|         | Spring Term                                                                                     | Lecture Modal Logic for Strategic Reasoning in AI (MSc)            |
| 2018-19 | <b>Imperial College London</b> (14h)                                                            |                                                                    |
|         | Spring Term                                                                                     | Lecture Logics for Strategic Reasoning in AI (MSc)                 |
| 2017-18 | <b>Université d'Evry</b> (96h)                                                                  |                                                                    |
|         | Reduced teaching duties thanks to the ANR projet SVeDaS                                         |                                                                    |
|         | Autumn Term                                                                                     | Lecture Méthodes de Conception et Vérification (MSc)               |
|         | Spring Term                                                                                     | Lecture Programmation Orientée Système II (undergraduate)          |
|         |                                                                                                 | Logique de Base (undergraduate)                                    |
| 2016-17 | <b>Université d'Evry</b> (96h)                                                                  |                                                                    |
|         | Reduced teaching duties thanks to <i>délégation au CNRS</i>                                     |                                                                    |
|         | Autumn Term                                                                                     | Lecture Méthodes de Conception et Vérification (MSc)               |
|         | Spring Term                                                                                     | Lecture Programmation Orientée Système II (undergraduate)          |
|         |                                                                                                 | Logique de Base (undergraduate)                                    |
| 2015-16 | <b>Université d'Evry</b> (48h)                                                                  |                                                                    |
|         | Reduced teaching duties thanks to CRCT ( <i>Congés de Recherche et Conversion Thématique</i> ). |                                                                    |
|         | Autumn Term:                                                                                    | Lecture Méthodes de Conception et Vérification (MSc)               |
| 2014-15 | <b>Université d'Evry</b> (192h)                                                                 |                                                                    |
|         | Autumn Term:                                                                                    | Lecture Preuves Formelles Mécanisées (MSc)                         |
|         |                                                                                                 | Tutorial Méthodes Formelles pour la Conception des Logiciels (MSc) |
|         |                                                                                                 | Spécification Formelles (MSc)                                      |
|         |                                                                                                 | Bases de Données (undergraduate)                                   |
|         | Spring Term:                                                                                    | Lecture Vérification (MSc)                                         |
|         |                                                                                                 | Programmation Orientée Système II (undergraduate)                  |
|         |                                                                                                 | Logique de Base (undergraduate)                                    |
| 2013-14 | <b>Université d'Evry</b> (192h)                                                                 |                                                                    |
|         | Autumn Term:                                                                                    | Lecture Preuves Formelles Mécanisées (MSc)                         |
|         |                                                                                                 | Tutorial Méthodes Formelles pour la Conception des Logiciels (MSc) |
|         |                                                                                                 | Spécification Formelles (MSc)                                      |
|         |                                                                                                 | Bases de Données (undergraduate)                                   |
|         |                                                                                                 | Algorithmique (undergraduate)                                      |
|         | Spring Term:                                                                                    | Lecture Programmation Orientée Système I (undergraduate)           |
|         |                                                                                                 | Tutorial Modélisation Object (undergraduate)                       |
|         |                                                                                                 | Logique de Base (undergraduate)                                    |

## SUPERVISION OF RESEARCH STUDENTS (2019- )

| Years   | Name                | Programme  | Project Title                                                                                                      |
|---------|---------------------|------------|--------------------------------------------------------------------------------------------------------------------|
| 2025-   | Omar Adalat         | PhD        | Verifiable and Safe Multi-agent Reinforcement Learning                                                             |
| 2023-   | Maksim Anisimov     | PhD        | Improving Robustness of Neural Networks Using Causal Structure                                                     |
| 2023-24 | Luka Corliss        | MRes in AI | Neuro-Symbolic Policy Learning and Representation for Interpretable and Formally-Verifiable Reinforcement Learning |
| 2023-24 | Daniel Donnelly     | MRes in AI | Runtime Verification for Safe and Verifiable AI                                                                    |
| 2022-   | Alex Goodall        | PhD        | A Robust Framework for World Model Learning in Reinforcement Learning                                              |
| 2022-   | Titus Buckworth     | PhD        | Neuro-symbolic Methods for AI                                                                                      |
| 2022-23 | Nikolay Topol       | MRes in AI | Explainable Reinforcement Learning with Causality                                                                  |
| 2021-   | Matt MacDermott     | PhD        | Model Checking Agents that Learn                                                                                   |
| 2020-   | Francis Ward        | PhD        | Symbolic Methods for Safe Reinforcement Learning                                                                   |
| 2019-24 | Aamal Hussain       | PhD        | Asymptotic Convergence and Performance of Multi-Agent Q-Learning Dynamics                                          |
| 2019-24 | Borja Gonzalez Leon | PhD        | Systematic Grounded Language Learning in Safety-Aware Autonomous Agents                                            |

## SUPERVISION OF POST-DOC RESEARCH ASSOCIATES

| Years   | Name                   | Programme | Project Title                                                  |
|---------|------------------------|-----------|----------------------------------------------------------------|
| 2023-25 | Edwin Hamel-de le Cour | PDRA      | An Abstraction-based Technique for Safe Reinforcement Learning |
| 2017-20 | Vadim Malvone          | PDRA      | Specification and Verification of Data-aware Systems (SVeDaS)  |

## EXAMINATION OF PHD THESES

| Date       | Name                  | Institution                           | Title                                                                        |
|------------|-----------------------|---------------------------------------|------------------------------------------------------------------------------|
| 28/02/2023 | Chengbin Xuan         | Kings College London, UK              | The Development of Robust and Safe Reinforcement Learning Methods            |
| 04/12/2023 | Daniel Furelos Blanco | Imperial College London               | Learning and Exploiting Reward Machines for Reinforcement Learning           |
| 11/07/2023 | Alberto Termine       | Università di Milano, IT              | Probabilistic Model Checking with Markov Models Semantics                    |
| 12/12/2022 | Sebastien Gamblin     | Normandie Université, France          | Représentation symbolique pour la logique épistémique dynamique probabiliste |
| 28/04/2021 | Edoardo Pirovano      | Imperial College London, UK           | Parameterised Model Checking of Probabilistic Multi-Agent Systems            |
| 18/01/2018 | Andriy Rivkin         | Freie Universität Bozen – Bolzano, IT | Modeling, Enactment and Verification of Data-Aware Process                   |
| 05/12/2017 | Zeinab Bakhtiari      | LORIA, Université de Lorraine, FR     | The Dynamics of Incomplete and Inconsistent Information                      |
| 12/06/2017 | Patrick Gardy         | ENS Cachan, FR                        | Semantics of Strategy Logic                                                  |

## ADMINISTRATIVE DUTIES (2019-)

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|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024-25     | <b>Department of Computing, Imperial College London</b> <ul style="list-style-type: none"> <li>• Deputy director of the CDT in Safe and Trusted AI.</li> <li>• Head of the group on “Formal Methods for AI”.</li> <li>• Member of the working group on the new joint Maths and Computing degree at Imperial College London.</li> <li>• Mentor for 1st year PhD students.</li> </ul>                                                                                                   |
| 2023-24     | <b>Department of Computing, Imperial College London</b> <ul style="list-style-type: none"> <li>• Co-director of the CDT in Safe and Trusted AI.</li> <li>• Head of the group on “Formal Methods for AI”.</li> <li>• Mentor for 4th year PhD students.</li> </ul>                                                                                                                                                                                                                      |
| 2022-23     | <b>Department of Computing, Imperial College London</b> <ul style="list-style-type: none"> <li>• Co-director of the CDT in Safe and Trusted AI.</li> <li>• Head of the group on “Formal Methods for AI”.</li> <li>• Member of the working group on the new joint Maths and Computing degree at Imperial College London.</li> <li>• Mentor for 3rd year PhD students.</li> </ul>                                                                                                       |
| 2020-22     | <b>Department of Computing, Imperial College London</b> <ul style="list-style-type: none"> <li>• Co-director of the CDT in Safe and Trusted AI.</li> <li>• Head of the group on “Formal Methods for AI”.</li> <li>• Mentor for 2nd year PhD students.</li> </ul>                                                                                                                                                                                                                      |
| 2018-20     | <b>Department of Computing, Imperial College London</b> <ul style="list-style-type: none"> <li>• Head of the group on “Formal Methods for AI”.</li> <li>• Undergraduate admissions.</li> </ul>                                                                                                                                                                                                                                                                                        |
| 2017-18     | <b>Laboratoire IBISC, Université d’Evry</b> <ul style="list-style-type: none"> <li>• Member of the International Commission at UEVE.</li> </ul> <p>The IC directs the UEVE’s international strategy. It is also in charge of selecting the students leaving on international mobility.</p> <ul style="list-style-type: none"> <li>• Head of the 3rd year Undergraduate Programme in Computer Science.</li> <li>• In charge of the organisation of the Laboratory seminars.</li> </ul> |
| 2014-17     | <b>Laboratoire IBISC, Université d’Evry</b> <ul style="list-style-type: none"> <li>• Head of the 3rd year Undergraduate Programme in Computer Science.</li> <li>• Member of the Laboratory Committee.</li> <li>• In charge of the organisation of the Laboratory seminars.</li> </ul>                                                                                                                                                                                                 |
| 2013-14     | <b>Laboratoire IBISC, Université d’Evry</b> <ul style="list-style-type: none"> <li>• Head of International Relations.</li> <li>• In charge of the organisation of the Laboratory seminars.</li> </ul>                                                                                                                                                                                                                                                                                 |
| 07/11-08/12 | <b>Imperial College London</b><br><i>EU STREP Projet ACSI</i><br>Project management, including: task allocation, updating the project programme, editing deliverables, organising meetings with the international partners of the project and the reviewers from the EU.                                                                                                                                                                                                              |
| 07/09-07/11 | <b>Imperial College London</b><br><i>IEF Marie Curie Fellowship, FoMMAS research project</i><br>Project management, including: negotiation with the European Commission, budget management in collaboration with the financial services at Imperial College London, annual editing of progress reports.                                                                                                                                                                               |

## EDITORIAL AND PC ACTIVITIES

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### Editorial Boards

- Artificial Intelligence

### Journal Reviewing

- ACM Transactions on Database Systems (TODS)
- ACM Transactions on Computational Logic (TOCL)
- Artificial Intelligence
- Annals of Pure and Applied Logic (APAL)
- Fundamenta Informaticae (FI)
- Information & Computation (I&C)
- Journal of Applied Logic (JAL)
- Journal of Artificial Intelligence Research (JAIR)
- Journal of Autonomous Agents and Multi-agent Systems (JAAMAS)
- Journal of Logic and Computation (JLC)
- Journal of Logic, Language and Information (JOLLI)
- Journal of Symbolic Logic (JSL)
- Logic Journal of the IGPL
- Mathematical Structures in Computer Science (MSCS)
- Studia Logica
- Synthese
- Theoretical Computer Science (TCS)

### Senior Programme Committees

- International Joint Conference on Artificial Intelligence (IJCAI): since 2016
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS): since 2017
- AAAI Conference on Artificial Intelligence (AAAI): since 2019

### Programme Committees (recurrent)

- International Conference in Machine Learning (ICML)
- International Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Learning Representations (ICLR)
- Advances in Modal Logic (AiML)
- Conference on Theoretical Aspects of Rationality and Knowledge (TARK)
- European Conference on Artificial Intelligence (ECAI)
- European Conference on Multi-agent Systems (EUMAS)
- IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS2018)
- International Conference on Concurrency Theory (CONCUR)

- International Conference on Foundations of Software Science and Computation Structures (FoSSaCS)
- International Conference on Logic Programming (ICLP)
- International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)
- International Conference on Principles of Knowledge Representation and Reasoning (KR)
- International Conference on Web Intelligence and Intelligent Agent Technology (IAT)
- International Workshop on Strategic Reasoning (SR)
- Journées de l'Intelligence Artificielle Fondamentale
- Logic and the Foundations of Game and Decision Theory (LOFT)
- Logic in Security (LIS)
- Software Engineering and Formal Methods (SEFM)
- Workshop on Logical Aspects of Multi-Agent Systems (LAMAS)

## Event Organisation

- [2nd Summer School of the UKRI CDT in Safe and Trusted AI](#), July 17-19 2023.
- [Safe and Trustworthy AI workshop](#), satellite workshop of the 39th International Conference on Logic Programming (ICLP2023), July 9/10 2023.
- 1st Summer School of the UKRI CDT in Safe and Trusted AI, July 12-14 2021.
- Workshop chair for the 20th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2021).
- Programme chair for the [3rd International Workshop on Formal Methods in Artificial Intelligence](#).
- Programme chair for the [15th European Conference on Multi-agent Systems](#) (EUMAS2017) and 5th International Conference on Agreement Technologies (AT2017), Evry, France, 14-15/12/2017.

## Evaluation of Research Projects

- National Science Foundation (NSF), US.
- Schmidt Sciences, US.
- Royal Societys International Exchanges Panel, UK
- Agence National de la Recherche (ANR), France
- Istituto Nazionale di Alta Matematica (INdAM), Italy
- Imperial College Fellowship
- External academic panel member for the validation of the academic partnership between the University of Essex and Aegean Omiros College.

## Membership of Learned Societies

- European Laboratory for Learning and Intelligent Systems (ELLIS)
- Association Française d'Intelligence Artificielle (AFIA)
- Associazione Italiana di Logica Applicata (AILA)

## INVITED TALKS (2011- )

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| 19/04/23 | <b>Department of Computer Science, University of Surrey</b><br>Do Androids Dream of Electric Fences? Safety-Aware Reinforcement Learning with Latent Shielding                                                   |
| 07/09/19 | <b>8th International Workshop on Strategic Reasoning</b> , satellite workshop of ECAI2020<br>Multi-valued Logics and Abstractions for the Verification of Strategic Properties in MAS with Imperfect Information |
| 29/05/19 | <b>Department of Computer Science, University of Surrey</b><br>Tractable Verification of Multi-agent Systems                                                                                                     |
| 09/05/17 | <b>Computational Epistemic Logic in Lorraine (CELLO) Workshop</b> , LORIA Nancy<br>A Logic for Global and Local Announcements                                                                                    |
| 13/07/17 | <b>Workshop on Logical Representation of Actions, Individual and Collective Attitudes</b> , IRIT Toulouse<br>A Logic for Global and Local Announcements                                                          |
| 23/02/17 | <b>First Workshop on Formal Methods in AI (FMAI)</b> , Università degli Studi di Napoli<br>(Bi)simulations for Multi-agent Systems                                                                               |
| 19/09/16 | <b>Institut de Recherche en Informatique Fondamentale</b> , Université Paris Diderot<br>Abstraction-based Verification of Infinite-state Data-aware Systems                                                      |
| 29/06/15 | <b>Journées de l'Intelligence Artificielle Fondamentale</b> , Rennes<br>A Logic of Knowledge and Strategies with Imperfect Information                                                                           |
| 17/06/15 | <b>AMANDE 4th Project Meeting</b> , Université Paris Dauphine<br>Formal Analysis of Dialogues on Infinite Argumentation Frameworks                                                                               |
| 13/03/14 | <b>Department of Computing, Imperial College London</b><br>Verifying Auctions as Artifact Systems: Decidability via Finite Abstraction                                                                           |
| 21/02/14 | <b>Institut de Recherche en Informatique de Toulouse</b><br>Verifying Auctions as Artifact Systems: Decidability via Finite Abstraction                                                                          |
| 17/10/13 | <b>Institut de Recherche en Informatique et Systèmes Aléatoires</b> , Rennes<br>Verifying Auctions as Artifact Systems: Decidability via Finite Abstraction                                                      |
| 20/09/13 | <b>Highlights of Logic, Games and Automata</b> , Paris<br>Model Checking Temporal-epistemic Logic using Alternating Tree Automata                                                                                |
| 17/06/13 | <b>Laboratoire d'Algorithmique, Complexité et Logique, UPEC</b> , Créteil<br>Verification of Artifact-Centric Multi-Agent Systems via Finite Abstraction                                                         |
| 13/06/13 | <b>Journées de l'Intelligence Artificielle Fondamentale</b> , Aix-en-Provence<br>An Abstraction Technique for the Verification of Artifact-Centric Systems                                                       |
| 25/02/13 | <b>Laboratoire LIP6, Université Paris 6</b><br>Verification of Agent-based Artifact Systems: Abstraction Techniques and Decidability Results                                                                     |
| 14/02/12 | <b>Department of Computing, University of Liverpool</b><br>An Abstraction Technique for the Verification of Artifact-Centric Multi-Agent Systems                                                                 |

## INVITED SYMPOSIA

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| 09/05/17    | <b>Computational Epistemic Logic in Lorraine (CELLO) Workshop</b> , LORIA Nancy<br>Organised by H. VAN DITMARSCH (CNRS - LORIA)                                                     |
| 12-13/07/17 | <b>Workshop on Logical Representation of Actions, Individual and Collective Attitudes</b> , IRIT Toulouse<br>Organised by E. LORINI (CNRS - IRIT)                                   |
| 22-24/02/17 | <b>FMAI – 1st Workshop on Formal Methods in AI</b> , Naples<br>Organised by D. DELLA MONICA, B. MAUBERT, A. MURANO, S. PINCHINAT, S. RUBIN                                          |
| 23-25/09/15 | <b>LAMAS SING (Logical Aspects of Multi-agent Systems, Seminar on Interaction, Gdansk)</b><br>Organised by W. JAMROGA (Polish Academy of Sciences)                                  |
| 17-21/08/15 | <b>Synthesis of Epistemic Protocols, Lorentz Center, Leiden</b><br>Organised by T. BOLANDER (DTU), H. VAN DITMARSCH (LORIA), J. VAN EIJCK (CWI-ILLIC), R. RAMANUJAM (IMSc, Chennai) |

## INVITED ACADEMIC VISITS

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|-------------|-----------------------------------------------------------------------------------------------|
| 08-09/02/18 | <b>Department of Computing, University of Liverpool</b>                                       |
| 01-05/06/15 | <b>Institut de Recherche en Informatique de Toulouse</b><br>Thematic Trimester in Game Theory |
| 08-12/06/15 | <b>Department of Computing, University of Liverpool</b>                                       |

## LANGUAGES

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|          |                   |
|----------|-------------------|
| ITALIAN: | Mothertongue      |
| ENGLISH: | Fluent            |
| FRENCH:  | Fluent            |
| GERMAN:  | Basic Proficiency |

# Publications

## REFEREED JOURNAL PAPERS

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1. F. Belardinelli, A. Ferrando, V. Malvone; *An abstraction-refinement framework for verifying strategic properties in multi-agent systems with imperfect information*. Artificial Intelligence. 316: 103847, 2023.
2. F. Belardinelli, A. Lomuscio, V. Malvone, E. Yu; *Approximating Perfect Recall when Model Checking Strategic Abilities: Theory and Applications*. Journal of Artificial Intelligence Research, 73:897-932, 2022.
3. F. Belardinelli, S. Demri; *Strategic Reasoning with a Bounded Number of Resources: The Quest for Tractability*. Artificial Intelligence. 300: 103557, 2021.
4. F. Belardinelli, R. Condurache, C. Dima, W. Jamroga, M. Knapik; *Bisimulations for Verifying Strategic Abilities with an Application to ThreeBallot*. Information & Computation, 104552, 2021.
5. F. Belardinelli, A. Lomuscio, A. Murano, S. Rubin; *Verification of Multi-Agent Systems with Public Actions against Strategy Logic*. Artificial Intelligence, 285: 103302, 2020.
6. F. Belardinelli, W. van der Hoek, and L. B. Kuijter; *Second-order Propositional Modal Logic: Expressiveness and Completeness Results*. Artificial Intelligence, 263: 3–45, 2018
7. F. Belardinelli, A. Lomuscio, and F. Patrizi; *Verification of Agent-based Artifact Systems*. Journal of Artificial Intelligence Research. 51, pp. 333-77, 2014.
8. F. Belardinelli, A. Lomuscio; *Interactions between Knowledge and Time in a First-Order Logic for Multi-Agent Systems: Completeness Results*. Journal of Artificial Intelligence Research. 45, pp. 1-45, 2012.
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