



Tony Ribeiro

Curriculum Vitae

Post-doc

Education

- 2015 **PhD.**
SOKENDAI, The Graduate University for Advanced Studies, Tokyo, Japon
- 2012 **Master Informatics.**
Université d'Angers, France
- 2010 **Bachelor Informatics.**
Université d'Angers, France
- 2007 **Baccalaureate.**
Lycée Duplessis Mornays, Saumur, France

P.h.D Thesis

- Title *Studies on Learning Dynamics of Systems from State Transitions.*
- Supervisor Katsumi Inoue
- Co-advisors Tetsunari Inamura & Helmut Prendinger & Seiji Yamada
- Jury
 - Katsumi Inoue (Professor, National Institute of Informatics, Tokyo)
 - Tetsunari Inamura (Associate Professor, National Institute of Informatics, Tokyo)
 - Helmut Prendinger (Professor, National Institute of Informatics, Tokyo)
 - Seiji Yamada (Professor, National Institute of Informatics, Tokyo)
 - Morgyear Magnin (Associate Professor, IRCCyN, École Centrale de Nantes)
 - Taisuke Sato (Professor, Tokyo Institute of Technology)
- Defense July 14th 2015

Master Thesis

- Title *Multi-Agent Systems and Answer Set Programming: Reasoning in Dynamic Environnement*
- Supervisors
 - Stéphane Loiseau (Professor, Université d'Angers)
 - Katsumi Inoue (Professor, National Institute of Informatics, Tokyo)
- Defense June 2012

Distinctions

- Feb. 2017 ◊ **Qualification aux fonctions de maître de conférences, France.**
- Sep. 2013 ◊ **Best Student Award, National Institute of Informatics, Japan.**
- May 2013 ◊ **The 3rd Prize of Best Challenges and Visions Papers at AAMAS 2013, USA.**

Scholarships

- 2013-2015 **NII Scholarship National Institute of Informatics, Japan.**
- 2012-2015 **NII Research Assistant Grant, National Institute of Informatics, Japan.**
- 2010-2012 **Master Merit Scholarship, France.**

Positions (since graduation)

- Oct. 2015 **Postdoc**, Institut de Recherche en Communications et Cybernétique de Nantes (IRCCyN-UMR CNRS 6597), École Centrale de Nantes, France.
3 months ◊ Funding: project ANR Hyclock
- Jan. 2016 **Postdoc**, Institut de Recherche en Communications et Cybernétique de Nantes (IRCCyN-UMR CNRS 6597), France.
Dec. 2016
1 year ◊ Funding: École Centrale de Nantes
- Jan. 2017 **Postdoc**, Laboratoire des Sciences du Numérique de Nantes (LS2N-UMR CNRS 6004), France.
Dec. 2017
Funding: École Centrale de Nantes
1 year ◊
- Juin 2018 **Postdoc**, Laboratoire des Sciences du Numérique de Nantes (LS2N-UMR CNRS 6004), France.
Aou. 2018
Funding : project ANR Hyclock
2.8 months ◊
- Mar. 2017 **Invited Researcher**, Inoue Lab, National Institute of Informatics (NII), Tokyo, Japon.
today
Funding: MOU NII/RFI Atlanstic and Kakenhi Kiban-A.
1.5 years◊ Invitations: march 2017, june 2017, february-march 2018, june-august 2018.

Internships

- Feb-Aug 2012 **Master 2 internship**, Inoue Lab, National Institute of Informatics, Tokyo.
6 month ◊ *Subject*: Modular Reasoning in Multi-Agent Systems Using Meta-Knowledge and Answer Set Programming.
- Mar-May 2011 **Master 1 internship**, LERIA, Université d'Angers, France.
3 month ◊ *Subject*: QBF validity search: exploitation of the propositional formula insatisfiability.
- Apr-May 2010 **Bachelor 3 internship**, LERIA, Université d'Angers, France.
2 month ◊ *Subject*: Development of an OpenGL 3D engine for wargame.

Personal skills

- Programming C, C++, Java, Python, Prolog, ASP, XHTML, CSS, Javascript, PHP, SQL, Bash, OCaml, ASM x86, Qt, OpenGL.
- Softwares Linux (Ubuntu, Debian), Microsoft Windows (XP, Vista, Seven, 10), Android 4.0+, iOS 8.0+, QtCreator, Eclipse, QTCreator, phpMyAdmin, Dia, SVN, Git, Gimp, Blender, Unity3D, LibreOffice.
- Others Linux Command Line, UML, Latex (article, slides, poster), 3D modelisation, video encoding.
- Langues French: mother tongue
English: professional
Japanese: basics / Spanish: basics / Portuguese: basics

Research interests

- Artificial Intelligence
- Machine Learning

Publications

International Journal with peer-reviews

- [1] David Martínez, Guillem Alenya, **Tony Ribeiro**, Katsumi Inoue, Carme Torras.. **Relational Reinforcement Learning for Planning with Exogenous Effects**, in *Journal of Machine Learning Research*, to appear, august 2017.
- [2] Emna Ben Abdallah, **Tony Ribeiro**, Morgyear Magnin, Olivier Roux, Katsumi Inoue.. **Modeling Delayed Dynamics in Biological Regulatory Networks from Time Series Data**, in *Algorithms*, volume 10, issue 1, january 2017.
- [3] **Tony Ribeiro**, Morgyear Magnin, Katsumi Inoue, Chiaki Sakama. **Learning delayed influences of biological systems**, in *Frontiers in Bioengineering and Biotechnology*, 2(81), pages 9, january 2015.
- [4] Katsumi Inoue, **Tony Ribeiro**, Chiaki Sakama. **Learning from Interpretation Transition**, in *Machine learning Journal*, 94(1), pages 51-79, january 2014.

Book Chapter

- [5] Alexandre Rocca, Nicolas Mobilia, Eric Fancon, **Tony Ribeiro**, Laurent Trilling, Katsumi Inoue. **Asp for construction and validation of regulatory biological networks**, in *Logical Modeling of Biological Systems*, pages 167-206, 2014.

International Conferences with peer-reviews

- [6] **Tony Ribeiro**, Maxime Folschette, Morgan Magnin, Olivier Roux, Katsumi Inoue. **Learning Dynamics with Synchronous, Asynchronous and General Semantics**, in The 28th International Conference on Inductive Logic Programming, ILP 2018, Ferrara, Italy..
- [7] Yin Jun Phua, **Tony Ribeiro**, Sophie Turret, Katsumi Inoue. **Learning Logic Program Representation for Delayed Systems with Limited Training Data**, in The 27th International Conference on Inductive Logic Programming, ILP 2017, Orléans, France.
- [8] **Tony Ribeiro**, Sophie Turret, Maxime Folschette, Morgan Magnin, Domenico Borzacchiello, Francisco Chinesta, Olivier Roux, Katsumi Inoue. **Inductive Learning from State Transitions over Continuous Domains**, in The 27th International Conference on Inductive Logic Programming, ILP 2017, Orléans, France.
- [9] Emna Ben Abdallah, **Tony Ribeiro**, Morgan Magnin, Olivier Roux and Katsumi Inoue. **Inference of delayed biological regulatory networks from time series data**, in 14th International Conference on Computational Methods in Systems Biology, CMSB 2016, Cambridge, United Kingdom. September 2016.
- [10] Tenda Okimoto, **Tony Ribeiro**, Damien Bouchabou, Katsumi Inoue. **Mission Oriented Robust Multi-Team Formation and its Application to Robot Rescue Simulation**, proceedings of the 25th International Joint Conference on Artificial Intelligence, (IJCAI-16), New York, NY, USA.
- [11] David Martinez, Guillem Alenya, Carme Torras, **Tony Ribeiro**, Katsumi Inoue. **Learning Relational Dynamics of Stochastic Domains for Planning**, proceedings of the 26th International Conference on Automated Planning and Scheduling, (ICAPS 2016), London, United Kingdom.
- [12] **Tony Ribeiro**, Morgan Magnin, Katsumi Inoue, Chiaki Sakama. **Learning Multi-Valued Biological Models with Delayed Influence from Time-Series Observations**, proceedings of the 14th International Conference on Machine Learning and Applications, (ICMLA 2015), pages 25-31, Miami, Florida, USA.
- [13] David Martinez, **Tony Ribeiro**, Katsumi Inoue, Guillem Alenya, Carme Torras. **Learning probabilistic action models from interpretation transitions**, to appear in *The 31st International Conference on Logic Programming (ICLP 2015)*, pages 12, Cork, Irelande.
- [14] Chiaki Sakama, **Tony Ribeiro**, Katsumi Inoue. **Learning Deduction Rules by Induction**, to appear in *The 25th International Conference on Inductive Logic Programming (ILP 2015)*, pages 6, Kyoto, Japon.
- [15] **Tony Ribeiro**, Morgan Magnin, Katsumi Inoue, Chiaki Sakama. **Learning Multi-Valued Biological Models with Delayed Influence from Time-Series Observations**, to appear in *The 25th International Conference on Inductive Logic Programming (ILP 2015)*, pages 6, Kyoto, Japon.
- [16] Tenda Okimoto, Nicolas Schwind, Maxime Clément, **Tony Ribeiro**, Katsumi Inoue, Pierre Marquis. **How to Form a Task-Oriented Robust Team**, to appear in *the 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015)*, Istanbul, Turquie.
- [17] **Tony Ribeiro**, Morgan Magnin, Katsumi Inoue. **Learning delayed influence of dynamical systems from interpretation transition**, in *proceedings of the 24th International Conference on Inductive Logic Programming (ILP 2014)*, pages 6, Nancy, France.
- [18] **Tony Ribeiro**, Katsumi Inoue. **Learning prime implicant conditions from interpretation transition**, in *proceedings of the 24th International Conference on Inductive Logic Programming (ILP 2014)*, pages 12, Nancy, France.
- [19] Tenda Okimoto, **Tony Ribeiro**, Maxime Clément, Katsumi Inoue. **Modeling and algorithm for dynamic multi-objective weighted constraint satisfaction problem**, in *proceedings of the 6th International Conference on Agents and Artificial Intelligence (ICAART 2014)*, pages 420-427, Angers, France.
- [20] Maxime Clément, Tenda Okimoto, **Tony Ribeiro**, Katsumi Inoue. **Modeling and Algorithm for Dynamic Multi-Objective Distributed Optimization**, in *proceedings of Principles and Practice of Multi-Agent Systems (PRIMA 2013)*, pages 413-420, Springer, 2013.
- [21] **Tony Ribeiro**, Katsumi Inoue, Chiaki Sakama. **A bdd-based algorithm for learning from interpretation transition**, in *proceedings of the 23th International Conference on Inductive Logic Programming (ILP 2013)*, pages 47-63, Springer, 2014.

- [22] **Tony Ribeiro**, Katsumi Inoue, Gauvain Bourgne.
Combining answer set programs for adaptive and reactive reasoning,
 in *proceedings of the 29th International Conference on Logic Programming (ICLP 2013)*, TPLP, 13(4-5-Online-Supplement), pages 10, 2013.
- [23] Nicolas Schwind, Tenda Okimoto, Katsumi Inoue, Hei Chan, **Tony Ribeiro**, Kazuhiro Minami, Hiroshi Maruyama.
Systems resilience: a challenge problem for dynamic constraint-based agent systems,
 in *proceedings of the international conference on Autonomous agents and multi-agent systems (AAMAS 2013)*, pages 785-788, 2013.

Workshops avec comité de lecture

- [24] Xinwei Chai, **Tony Ribeiro**, Morgan Magnin, Olivier Roux, Katsumi Inoue.
Static Analysis and Stochastic Search for Reachability Problem,
 in *The Ninth International Workshop on Static Analysis in Systems Biology 2018*, (SASB 2018), Freiburg, Germany, 2018.
- [25] Yin Jun Phua, **Tony Ribeiro**, Katsumi Inoue.
Learning Representation of Relational Dynamics with Delays and Refining with Prior Knowledge,
 in *Thirteenth International Workshop on Neural-Symbolic Learning and Reasoning*, (NeSy 2018), Prague, Czech Republic, 2018.
- [26] Damien Bouchabou, **Tony Ribeiro**, Tenda Okimoto, Katsumi Inoue.
Robust multi-team formation and its application to robot rescue simulation,
 in *the proceeding of the Joint Agent Workshop and Symposium*, pages 4, Miyazaki, Japon, 2014.
- [27] Maxime Clément, Tenda Okimoto, **Tony Ribeiro**, Katsumi Inoue.
Model and Algorithm for Dynamic Multi-Objective Distributed Optimization,
 in *the International Joint Workshop on Optimisation in Multi-Agent Systems and Distributed Constraint Reasoning (OptMAS-DCR 2014)*, Paris, France, 2014.
- [28] Nicolas Schwind, Tenda Okimoto, **Tony Ribeiro**, Sébastien Konieczny, Katsumi Inoue.
Discriminative mo-cop operators,
 in *proceeding of The International Joint Workshop On Optimisation In Multi-Agent Systems And Distributed Constraint Reasoning (OPTMAS-DCR)*, in conjunction with AAMAS 2014, Paris, France, 2014.
- [29] Alexandre Rocca, **Tony Ribeiro**, Katsumi Inoue.
Inference and Learning of Boolean Networks Using Answer Set Programming,
 in *the First International Workshop on Learning and Nonmonotonic Reasoning (LNMR 2013)*, Corunna, Espagne.
- [30] Tenda Okimoto, Naoto Ikegai, **Tony Ribeiro**, Katsumi Inoue, Hitoshi Okada, Hiroshi Maruyama.
Cyber Security Problem based on Multi-Objective Distributed Constraint Optimization Technique,
 in *The 1st Workshop on Systems Resilience (WSR 2013) (held in conjunction with DSN 2013)*, Budapest, Hongrie.
- [31] **Tony Ribeiro**, Katsumi Inoue, Gauvain Bourgne.
Modular Reasoning in Multi-Agent Systems Using Meta-Knowledge and Answer Set Programming,
 in *International Joint Agent Workshop and Symposium (IJAWS) 2012*, Kakegawa, Japon.