

Yacine IZZA

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Personal Information

Date of Birth May 31, 1991
Place of Birth Azazga, Algeria
Nationality Algerian
Status Single

Current Position

Postdoctoral Researcher, University of Toulouse, ANITI – Artificial and Natural Intelligence Toulouse Institute, France.

Visiting Researcher, Monash University, Optimization Research Group, Australia.

Education

2015-2018 **Doctor of Computer Science**

Laboratory : Center of Research in Computer Science of Lens (CRIL), France.

Area of study : *Artificial Intelligence, SAT, Inconsistency, Reasoning*

Title : *“Ubiquitous computing : approaches for detecting and filtering inconsistent information in knowledge bases”*¹

Advisors : Prof. ÉRIC GRÉGOIRE and Asst. Prof. JEAN-MARIE LANGIEZ

2013-2014 **Master of Artificial Intelligence**, Paul Sabatier University - Toulouse, France

Master thesis : *“Interactive Resolution and compilation of constraint satisfaction problems”*

Laboratory : Toulouse Institute of Computer Science Research (IRIT)

Supervisor : Prof. HELENE FARGIER

Professional Experiences

(Dec-Jan) 2020 **Secondment for AniAge Project**, University of Chiang, College of Art Media and Technology , Thailand.

(Oct-Nov) 2019 **Secondment for AniAge Project**, University of Can Tho, College Information and Technology , Vietnam.

2019-2020 **Conjoint Lecturer/Researcher**, University of Artois, Center of Research in Computer Science of Lens, France.

(May-July) 2019 **Secondment for AniAge Project**, Universiti Teknologi Malaysia, Virtual Visualisation Vision Research Laboratory, Malaysia.

2018-2019 **Conjoint Lecturer/Researcher**, University of Artois, Center of Research in Computer Science of Lens, France.

2016-2017 **Teaching Assistantship**, University of Artois, Center of Research in Computer Science of Lens, France.

2015-2016 **Teaching Assistantship**, University of Artois, Center of Research in Computer Science of Lens, France.

2015 **R&D Engineer**, Center of Research in Computer Science of Lens, France.

1. <https://yizza.gitlab.io/files/Thesis-Yacine-IZZA.pdf>

Teaching Activities

- > Algorithmic Complexity
 - 30 hours of courses
- > Advanced Object Oriented Programming – JAVA
 - 30 hours of practical work
- > Design Patterns – JAVA
 - 30 hours of tutorials
- > Algorithmics and Programming – C
 - 18 hours of practical work
- > Numeration and Circuits
 - 18 hours of courses
 - 22 hours of tutorials
- > Information Theory
 - 18 hours of courses
- > Algorithmics and Programming – PYTHON
 - 24 hours of tutorials
 - 24 hours of practical work
- > Software office 2
 - 9 hours of practical work
- > Software office 1
 - 28 hours of practical work

Projects

- 2020-2024 Member of a European project “**H2020 COALA**” (Complementary in the Collaboration between Human and AI-based Digital Assistant). <https://www.coala-h2020.eu>
- 2016-2020 Member of a Euro-Asian project “**H2020 AniAge**” (High dimensional heterogeneous data based animation techniques for Southeast Asian intangible cultural heritage digital content). <http://www.euh2020aniage.org>
- 2014-2018 Member of a French project “**BR4CP**” (Business Recommendation for Configurable Products). <https://www.irit.fr/~Helene.Fargier/BR4CP/BR4CP.html>

Skills

Language	English : fluent French : fluent Arabic and Berber : native speaker
Programming	C, C++, Java, JavaScript, Python, Perl, Shell, HTML, OWL, SQL, SPARQL
Tools/Libraries	Git, L ^A T _E X, Microsoft Office, MiniSAT, OWL-API, PySAT, PySMT, scikit-learn, TensorFlow, XGBoost
OS	Linux, BSD Unix, Mac OS, Microsoft

Publications

- 2022 Yacine Izza, Alexey Ignatiev, Nina Narodytska, Martin C. Cooper and João Marques-Silva « Provably Precise, Succinct and Efficient Explanations for Decision Trees » - *CoRR 2022*
- Yacine Izza, Alexey Ignatiev and João Marques-Silva « On Tackling Explanation Redundancy in Decision Trees » - accepted at *JAIR 2022*
- Alexey Ignatiev, Yacine Izza, Peter Stuckey and João Marques-Silva « Using MaxSAT for Efficient Explanations of Tree Ensembles » - *AAAI 2022*
- Xuanxiang Huang, Yacine Izza, Alexey Ignatiev, Martin C. Cooper, Nicholas Asher and João Marques-Silva « Efficient Explanations for Knowledge Compilation Languages » - *AAAI 2022*
- 2021 Xuanxiang Huang, Yacine Izza, Alexey Ignatiev, Martin C. Cooper, Nicholas Asher and João Marques-Silva « Efficient Explanations for Knowledge Compilation Languages » - *CoRR 2021*
- Xuanxiang Huang, Yacine Izza, Alexey Ignatiev and João Marques-Silva « On Efficiently Explaining Graph-Based Classifiers » - *KR 2021*
- Yacine Izza, Alexey Ignatiev, Nina Narodytska, Martin C. Cooper and João Marques-Silva « Efficient Explanations With Relevant Sets » - *CoRR 2021*
- Yacine Izza and João Marques-Silva « On Explaining Random Forests with SAT » - *IJCAI 2021*
- 2020 Yacine Izza, Alexey Ignatiev and João Marques-Silva « On Explaining Decision Trees » - *CoRR 2020*
- Yacine Izza, Said Jabbour, Badran Raddaoui and Abdelhamid Boudane « On the Enumeration of Association Rules : A Decomposition-based Approach » - *IJCAI 2020*
- Sihem Belabbes, Yacine Izza, Tri-Thuc Vo, Karim Tabia and Salem Benferhat « An ontology-based approach for building and querying ICH video datasets » - *ICAART 2020*
- 2019 Sihem Belabbes, Chi Wee Tan, Tri-Thuc Vo, Yacine Izza, Karim Tabia and Salem Benferhat « Query Answering from Traditional Dance Videos : Case Study of Zapin Dances » - *ICTAI 2019*
- 2018 Éric Grégoire, Yacine Izza and Du Zhang - « On Admissible consensus » - *IJAIT (2018)*, volume (27) pp 1-20
- Éric Grégoire, Yacine Izza and Jean-Marie Langiez - « Boosting MCSes Enumeration » - *IJCAI 2018*

Publications

- 2017 Éric Grégoire, Yacine Izza and Jean-Marie Langiez - « On Computing one \max_{\subseteq} Consensus » - *in Twenty-ninth International Conference on Tools with Artificial Intelligence (ICTAI 2017)*
- 2016 Éric Grégoire, Yacine Izza and Jean-Marie Langiez - « On the Extraction of One Maximal Information Subset that Does not Conflict with Multiple Contexts » - *in Thirty AAAI Conference on Artificial Intelligence (AAAI 2016)*, pp 3404–3410

Scientific Activities

- 2022 PC member of the International Joint Conference on Artificial Intelligence (IJCAI) 2022
- 2022 PC member of the AAAI Conference on Artificial Intelligence (AAAI) 2022
- 2022 PC member of the International Journal of Computer Applications & Information Technology (IJCAIT)
- 2021 PC member of the AAAI Conference on Artificial Intelligence (AAAI) 2021
- 2021 PC member of the International Conference on Principles of Knowledge Representation and Reasoning (KR) 2021
- 2021 PC member of the International Journal on Artificial Intelligence Tools (IJAIT)
- 2021 PC member of the IEEE International Conference on Tools with Artificial Intelligence (ICTAI) 2021

Administrative Activities

- 2020-2022 Management of the resources of the supercomputer CALMIP for DeepLever ANITI Chair.
- 2018 Member of organizing committee of “*International Conference on Principles and Practice of Constraint Programming*” (CP’18)
- 2017 Member of organizing committee of “*International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems*” (IEA/AIE’17)
- 2017 Member of organizing committee of a workshop “*Journées Francophones de Programmation par Contraintes*” (JFPC’17)
- 2015 Member of organizing committee of a summer school “*Advanced Course on Artificial Intelligence*” (ACAI’15)

References

- Professor Joao Marques-Silva — IRIT CNRS, France ✉ joao.marques-silva@irit.fr
- Assoc. Prof. Alexey Ignatiev — Monash University, Australia ✉ alexey.ignatiev@monash.edu
- Professor Peter J. Stuckey — Monash University, Australia ✉ peter.stuckey@monash.edu
- Dr. Nina Narodytska — VMWare Research, United States ✉ nnarodytska@vmware.com
- Prof. Eric Gregoire — CRIL Artois University, France ✉ gregoire@cril.fr