

# Nicolas Isoart

## PhD Student in Artificial Intelligence

### Education

#### PhD: Structure and Constraint Programming

*From October 2018 – Université Côte d'Azur*

Definition of structural constraints and study of their interactions with optimization methods such as Lagrangian relaxation.

#### Master Computer Science

*August 2018 – Université Côte d'Azur*

#### Licence Computer Science

*June 2016 – Université Côte d'Azur*

#### Baccalauréat

*June 2013 – Lycée Don Bosco de Nice – Scientific section*

### Work Experience

#### Teaching

*January - June 2019 – UFR Sciences, Université Côte d'Azur*

Lectures (TD/TP) in Python (36h) and C (24h).

#### Internship

*March - September 2018 – I3S laboratory, Sophia-Antipolis*

Improving the resolution of the Travelling Salesman Problem by adding structural constraints.

#### Internship

*July - September 2017 – I3S laboratory, Sophia-Antipolis*

Incremental management of PQ-Tree. We check if for a matrix 0-1 if there is a permutation of the columns such that all the 1 of each row are consecutive.

#### UNS programming competition

*April and December 2018 – Université Côte d'Azur*

Organizational assistance (welcoming and supervising students during the competition).

### Publication

#### Integration of structural constraints into TSP models

N. Isoart and J-C. Régim

25<sup>th</sup> International Conference of Constraint Programming. LNCS, vol. 11802, pp. 284-299, Connecticut, USA, 2019. Springer.

#### Introduction de contraintes structurelles pour la résolution du problème du voyageur de commerce

N. Isoart and J-C. Régim

15<sup>th</sup> JFPC 2019, pp. 87-95, Albi, France, 2019

### Award

JFPC 2019 best paper award



#### Address

6 Rue François Aune  
06000 Nice  
France

#### Date of birth

April 20, 1994  
25 years old

#### Email

nicolas.isoart@gmail.com

#### Telephone

+33 6 70 60 40 80

#### Sport

- Triathlon (from S to XXL)  
- Ski

#### Languages

- French: mother tongue  
- English: fluent

#### Technical

- C/C++, Java, LaTeX, Python  
- openMP, MPI

#### Theoretical

- Constraint Programming  
- Algorithms and graph theory  
- Complexity and calculability