Arthur Gontier

Age: 25

Location : 163 AV Gén S. Patton

35700 Rennes, France

Mail: arthur.pro.gontier@gmail.com

Phone: $+336\ 51\ 30\ 78\ 59$

Website: arthurgontierpro.github.io

PhD Student in Computer Science

Profile: Motivated and competent PhD researcher with experience in a big variety of solving techniques. Interested in solver enhancement, new modelisation challenges, and looking forward to encounter new research topics.

Education

•	PhD in Symmetric cryptography analysis with declarative languages Université de Rennes 1	2020-2023
•	Master's Degree: Optimisation and Operational Research Université de Nantes and Université Libre de Bruxelles	2018-2020
•	Bachelor's Degree: Mathematics and Computer Science Université de Nantes	$2015\text{-}2018\\vale dictorian$
•	CEM: End of Musical Studies of Clarinette	2015

Teaching

Graph theory Université de Rennes 1, Bachelor 3	2020
• Mixed Integer Linear programming Université de Rennes 1, Master 1	2020
Functional Programming INSA Rennes, Master 1	2021
Computer science Université de Rennes 1, Bachelor 1	2021-2023

Publications

• New alg for gener	orithm for exhausting optimal permutations ralized feistel networks	INDOCRYPT 2022
• Diffusion	n totale dans le schéma de Feistel généralisé	ROADEF 2022
• A simple Selected A	er model for recovering superpoly on trivium Areas of Cryptography	SAC 2021
• Conflict Explana	analysis in CP solving: tion generation from constraint decomposition	CPTAI 2020

Internships and Projects

•	Automatic explanation generation for discrete solvers $Research\ Internship\ at\ LS2N$	$\begin{array}{c} 2020 \\ team \ TASC \end{array}$
•	Revised Simplex and LU decomposition for multi-criteria simplex Research Internship at $LS2N$	$\begin{array}{c} 2019 \\ team \ SLP \end{array}$
•	Static program analysis: from synchronous languages to horn clauses Research Internship at LIP, Ecole Normale Supèrieure de Lyon	$\begin{array}{c} 2018 \\ team \ CASH \end{array}$
•	Development of a CP solver for the SGP and STS problems	School Projet
•	ROADEF 2005 challenge solutions up to three objective optimisation	School Projet

Skills

Programming
C++, Ocaml, Julia, Java, Python, Latex, html
French
English

Solving techniques

CP, MILP, SAT, SMT and Multi-threaded dedicated methods

Others

Secretary in a orchestra association (Concert organisation)
Global Game Jam 2016 (Video Game development in 48h)