Kevin Godin-Dubois

A-Life Researcher on the Emergence of Cognition

♣ University of Toulouse
 L +33 5 67 06 93 91
 IRIT - CNRS UMR 5505
 D +33 6 18 72 09 06
 2 rue du Doyen Gabriel Marty
 31042 Toulouse, France

 ${\ensuremath{\,\boxtimes\,}}$ kevin.dubois@irit.fr

೧ kgd-al@github.com

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2016-Present - Capitole University, Toulouse PhD thesis, "Environment driven speciation" Investigated how complexification of artificial creatures could be further enhanced by moving the control apparatus around the abiotic component of an ecosystem

Education

2014-2016 - Paul Sabatier University, Toulouse Master's degree in Computer Science
Artificial intelligence: mathematical and symbolic models, training methods

2011-2014 - Paul Sabatier University, Toulouse Bachelor's degree in Computer Science

Miscellaneous

Spoken Languages

French (mother tongue) English (fluent)

Hobbies

Tabletop RPG Reading (Carlton Mellick III, Warhammer 40K) Music (Metal, Classical, Hard Rock, OSTs) Video games (Construction, Puzzle, RPG)

Computing Skills

Canguages

● C++

C, Java

Python

<u>▶</u> Processing

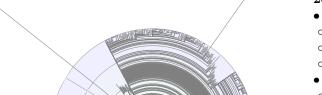
Gnuplot

Octave/Matlab

■ Redaction
■ IATEX/ TikZ
■ Office Software

Systems
Linux

Windows, Android



Publications and Conferences

Professional Experience

2016-Present - Teachings

- 2017 & 2018, Capitole University, Toulouse
- \circ L2 Excel and Visual Basic for Applications
- L2 Algorithms and Visual Basic
- \circ L3 Modeling in Database
- 2016 & 2017, Paul Sabatier University, Toulouse
- L2 project monitoring on C programming

2016 - Internship IRIT, France

Toulouse Research Institute on Computer Science "Rule-based artificial embryogenesis in a complex 3D e

"Rule-based artificial embryogenesis in a complex 3D environment"

Deployed rule-based genomes on the MecaCell platform to study artificial plant growth and cell specialization.

$\mathbf{2015}$ - Internship IRIT, France

"Comparison of different evolutionary approaches, an application to the GECCO 2015 challenge"

Performed a performance comparison (accuracy, efficiency) between Artificial Neural and Genetic Regulatory Networks on the 2015 GECCO temperature prediction challenge data.

- Kevin Godin-Dubois et al. "APOGeT : Automated Phylogeny over Geological Time-scales". In: ALIFE 2019 (MethAL workshop). 2019
- Kevin Godin-Dubois et al. "Speciation under Changing Environments". In: ALIFE 19. Vol. 31. Cambridge, MA: MIT Press, 2019, pp. 349–356
- Kevin Godin-Dubois et al. "Self-sustainability Challenges of Plants Colonization Strategies in Virtual 3D Environments". In: Applications of Evolutionary Computation. Ed. by Paul Kaufmann et al. Cham: Springer International Publishing, 2019, pp. 377–392
- Poster presentation "Studying long term interactions between plants and their environment" at The 2018 Conference on Artificial Life
- Kevin Dubois et al. "Towards an Artificial Polytrophic Ecosystem". In: Morphogenetic Engineering Workshop, at the European Conference on Artificial Life (ECAL) 2017 September 4. 2017