Alexis Jacq

Ph.D. Student in Cognitive Robotics

alexis-jacq.github.io

Supervised by Maelle Nodet (Inria, Grenoble)

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github.com/alexis-jacq

2012

Summary

My PhD thesis investigates robots strategies aiming at improving children learning in educative Human-Agent Interactions. While this topic is constrained by real-world experimentation, my background is theoretical and my interest focuses on mathematical models of learning and adaptive behaviours.

Education

Ecole Normal Superieure (Cachan) Cachan, France Master (2nd year) of mathematics, spe Mathematics for Vision and Learning 2013-2014 Pierre & Marie Curie University Paris, France Master (1st year) of bio-informatics (ranked 1st) 2012-2013 Joseph Fourier University Grenoble, France Bachelor of mathematics (ranked 1st) 2009-2012 Master Thesis..... Reinforcement Learning Models for Information Seeking in Monkeys Inria Bordeaux Supervised by Pierre-Yves Oudeyers & Manuel Lopes (Inria, Bordeaux) 2014 Bachelor Thesis. Variational Data Assimilation for an Ice Cap Model Inria Grenoble

Ph.D.

Title: Mutual Understanding In Educational Human-Agent Collaborations

Supervised by Pierre Dillenbourg (EPFL, Lausanne) & Ana Paiva (IST Lisbon)

Keywords: human-robot interaction, multi-agent learning, inverse-reinforcement learning.

Summer schools.

Prairie Artificial Intelligence Summer School (Paiss) 2018

Grenoble, France
Data Science Summer School (DS3) 2018

Palaiseau, France
Social HRI Summer School 2017

Vila Milfontes, Portugal

Followed courses....

EPFL: Intelligent Agents (Boi Faltings), Unsupervised and Reinforcement Learning (Marc-Oliver Gewaltig), Digital education & Learning analytics (Pierre Dillenbourg)

IST: Advanced topics in Artificial Intelligence (Francisco Melo & Manuel Lopes), Affective Computing (Ana Paiva & Joao Dias)

Google Internship

Softwear developper intern at Google B	
Supervised by Olivier Pietquin • Keywords: Reinforcement learning, Multi	agent learning, Game theory, Deep learning.
Learning from a Learner	
A. Jacq, M. Gueist, A. Paiva, O. Pietqu	in ICML 2019
Submitted publications (under review	process)
Foolproof Cooperative Learning	
A. Jacq, J. Perrolat, M. Gueist, O. Piet	quin AAAI 2020
Selected Publications	
Learning from a Learner	
A. Jacq, M. Gueist, A. Paiva, O. Pietqu	
· ·	tanding In Human-Robot Collaborations
A. Jacq, J. Magnan, M. Ferreira, P. Dillenbourg, A. Paiva AAMAS 2018 Building guarantial languable interactions in a learning context	
Building successful long child-robot interactions in a learning context A. Jacq, S. Lemaignan, F. Garcia, P. Dillenbourg, A. Paiva HRI 2016	
-	with-me-ness in human-robot interaction
S. Lemaignan, F. Garcia, A. Jacq, P. D	
Side-projects	
Open Python projects	
Neural Transfer of Artistic Style	$pytorch.org/tutorials/advanced/neural_style_tutorial.html$
Sketch-RNN	github.com/alexis-jacq/Pytorch-Sketch-RNN
Learning with Opponent-Learning Awar	eness $github.com/alexis-jacq/LOLA_DiCE$
Teaching	
EPFL	
C programming	Fall 2017
Analyse IV	Spring 2016
Analyse I	Spring 2015
Introduction to Visual Computing	(Best assistant award) Spring 2015
Languages	
• Typed: Python (mother tongue), C/C	++, R, Java, HTML/CSS, Javascript

- Typed: Python (mother tongue), C/C++, R, Java, HTML/CS
 Spoken: Fluent in French and English, A1 level in Portuguese

Other interests

- o Sports: surfing, dance improvisation, running
- o Arts: painting (oil/watercolour), sculpting (clay/wood), writing (short-novels/poetry)