manuel **Hermellin**

Ph.D. - Lecturer and Research Assistant, University of Montpellier

The Montpellier Laboratory of Informatics, Robotics and Microelectronics (LIRMM)

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		Research	topics	
•		, ,		y, these works address the need to find new lel architectures and its associated program
	Keywords :	- Artificial intelligence : Multi- - Computer architecture : Pro - High Performance Computir - Modeling and Simulation to	cessors, multi-processors, g	graphics card; ures;
		Posit	ion	_
Lecturer and Research Assistant LIRMM - University of Montpellier				October 2016 - August 2017 Montpellier, France
Ph.D. Student with teaching responsability LIRMM - UNIVERSITY OF MONTPELLIER				October 2013 - September 2016 Montpellier, France
	_	Educa	tion	_
Ph.D. in Informatics (computer science and artificial intelligence)				October 2013 - November 2016
THE MONTPELLIER LABORATORY OF INFORMATICS, ROBOTICS AND MICROELECTRONICS (LIRMM) Title Modeling and implementing multi-agents based simulations on massively parall				Montpellier, France architectures
M.Sc in Physics and Computer Science				September 2010 - September 2012
JNIVERSITY OF MONTPELLIE				Montpellier, France
Real		erospace lab ic rendering solution (Raytracing Particle Laboratory	g, Pathtracing, Photon Mappi	ng) using GPGPU (C, CUDA, Perl)
	•	sical Spectra Reduction, software	e development (Java)	
B.Sc in fundamental and applied Physics University of Avignon				September 2008 - June 2009 Avignon, France
Two years intensive program JNIVERSITY OF AVIGNON				September 2006 - June 2008 Avignon, France
Description Two	years intensive p	rogram preparing for the nationa	al competitive exam for entry	to engineering schools
French "Baccalauréat" (High-School Degree) Jean Cocteau High-School				September 2003 - June 2006 Miramas, France
		Teaching ex	cperience	
Thaught for the four-year ur	ndergraduate cor	COMPUTER SCIENCE DEPARTMENT nputer science and informatics co tation classes in Agent Oriented F	ourses (about 96 hours).	October 2013 - August 2017 Montpellier, France

Organized lectures, exams and held recitation classes in *Programming Paradigms*, *Algorithmic* and *Computer Science Basics*.

Teaching assistant Polytech engineer school - University of Montpellier

Thaught for the first-year undergraduate computer science and informatics courses (about 90 hours). Organized lectures, exams and held recitation classes in *Algorithmic and Programming Introduction*.

Tutor Acadomia, a private education company

October 2013 - December 2016

Teaching in Mathematics, Physics and Computer Science for High-School and University students (about 250 hours).

Thaught for the first and the second-year undergraduate computer science and informatics courses (about 196 hours).

January 2010 - June 2013

Montpellier, France

Montpellier, France

Administrative and associative experience

Elected representative of Ph.D. students

May 2014 - December 2016

SCIENTIFIC AND ACADEMIC COUNCIL - UNIVERSITY OF MONTPELLIER

Montpellier, France

Objective: To represent the Ph.D. students of the doctoral school I2S in the scientific and academic councils of the University of Montpellier

Organizer September 2014 - June 2015

SEMINDOC (SCIENTIFIC ASSOCIATION) - LIRMM

Montpellier, France

Organization of seminaries dedicated to the Ph.D. students and popular-scientific lectures

Animator and teacher

September 2013 - June 2015

 $\hbox{D'CLic (Photography Association) - University of Montpellier}$

Photography courses and workshops are offered to students and staff of the University

Montpellier, France

Publications

ARTICLE, INTERNATIONAL AUDIENCE WITH EDITORIAL COMMITTEE

Computer Science Review (CSR)

- A survey on Multi-Agent Based Simulations using General-Purpose computing on Graphics Processing Units, *Emmanuel Hermellin, Fabien Michel and Jacques Ferber*, submitted

ARTICLE, NATIONAL AUDIENCE WITH EDITORIAL COMMITTEE

Revue d'Intelligence Artificielle (RIA)

- Expérimentation du principe de délégation GPU pour la simulation multiagent : les boids de Reynolds comme cas d'étude, *Emmanuel Hermellin and Fabien Michel*, pages 109–132 (vol.30 num 1-2), Lavoisier 2016
- État de l'art sur les simulations multi-agents et le GPGPU, Emmanuel Hermellin, Fabien Michel and Jacques Ferber, pages 425–451 (vol.29 num 3-4), Lavoisier 2015

INTERNATIONAL CONFERENCES, INTERNATIONAL AUDIENCE WITH EDITORIAL COMMITTEE

Conference on Autonomous Agents and Multiagent Systems (AAMAS, A* ACM conference) (Acceptance rate 20 %)

- GPU Delegation: Toward a Generic Approach for Developping MABS using GPU Programming, Emmanuel Hermellin and Fabien Michel, Proceedings of the 15th International Conference on Autonomous Agents and Multiagent Systems, pages 1249–1258 ACM, Singapore 2016

Multi-Agent-Based Simulation (AAMAS - MABS) (Acceptance rate 40 %)

- Defining a Methodology Based on GPU Delegation for Developing MABS using GPGPU, *Emmanuel Hermellin and Fabien Michel*, Revised Selected Papers of Multi-Agent Based Simulation XVII: International Workshop, Springer LNCS to be published, *Singapore* 2016
- GPU Environmental Delegation of Agent Perceptions : Application to Reynolds's Boids, *Emmanuel Hermellin and Fabien Michel*, Revised Selected Papers of Multi-Agent Based Simulation XVI : International Workshop, Springer LNCS pages 71–86 (vol.9568), *Istanbul Turkey* 2015

NATIONAL CONFERENCES, NATIONAL AUDIENCE WITH EDITORIAL COMMITTEE

Journées Francophones sur les Systèmes Multi-Agents (JFSMA) (Acceptance rate 30 %)

- Méthodologie pour la modélisation et l'implémentation de simulations multi-agents utilisant le GPGPU, *Emmanuel Hermellin and Fabien Michel*, pages 107–116, Cépaduès Éditions, *Saint Martin du Vivier France 2016*
- Délégation GPU des perceptions agents : application aux Boids de Reynolds, *Emmanuel Hermellin and Fabien Michel*, pages 185–194, Cépaduès Éditions, *Rennes France 2015*
- Systèmes multi-agents et GPGPU : état des lieux et directions pour l'avenir, *Emmanuel Hermellin, Fabien Michel and Jacques Ferber*, pages 97–106, Cépaduès Éditions, *Loriol-sur-Drôme France 2014*

Additional training and skills _____

COMPUTER SCIENCE Programming skills, Softwares, Environment, ...

Object Oriented ProgrammingC++, Java, PythonAgent Oriented ProgrammingJava, LogoHigh Performance ComputingCUDA, Optix, MPIGraphic ProgrammingJava, OpenGL

OS / Scripting Windows, Linux / Bash, Perl, Python

Collaborative Programming Git, SVN

Others Database (SQL, Access), Scientific Computation Software (Matlab, Scilab, Octave)

COMPLEMENTARY SKILLS

Office Software skills LaTeX, MS Office

Web ProgrammingHTML, CSS, CMS (Wordpress, ...)Language skillsFrench (native), English (professional)

Photography and Graphics skills Photoshop, Illustrator, DxO Optics Pro, After Effect, Premiere, 3DSmax, Vue

HOBBIES

Sciences, Photography, Travel (*Turkey, Italy, Spain, Netherland, Canada, Singapore*), Reading, Piano, Sports