

Curriculum Vitae

Mr. José-Luis Vilchis-Medina

PhD. in Computer Science^a

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^a. (Artificial Intelligence & Logic)

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Current Situation

Oct-2021/present	French Naval Academy <i>Naval Academy Research Institute (IRENav EA3634), MoTIM group.</i> Assistant Professor of Computer Science.	Brest, France
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Employment Situation

Oct-2020/Sep-2021	ONERA-The French Aerospace Lab <i>DTIS, SEAS group.</i> Postdoctoral position	Toulouse, France
Oct-2019/Sep-2020	University of Montpellier CALcul NATurel team A.T.E.R. (192h) : <i>LIRMM, EXPLORE group.</i> Postdoctoral position	Montpellier, France
Sep-2018/Aug-2019	Aix-Marseille Université CALcul NATurel team A.T.E.R. (192h) : <i>Faculty of Sciences, Bachelor in Computer Science.</i> Teaching-Research position (ATER)	Marseille, France

Subjects of Research

- *Knowledge Representation and Reasoning*
- *Non-monotonic Reasoning*
- *Non-classical Logics*
- *Logic Programming*
- *Decision Theory*
- *Resilience Theory*

Education

Oct-2015/Dec-2018	<p style="text-align: center;"><u>PhD. in Computer Science</u> Laboratoire d'Informatique et Systèmes (LIS) CALcul NATurel team</p> <p style="text-align: center;">Title : <i>Modeling of Resilient System in Default Logic. Application to Solar Power UAV.</i></p> <p style="text-align: center;">Supervisors : Pierre SIEGEL and Andrei DONCESCU</p>	Marseille, France
Sep-2015	<p style="text-align: center;"><u>M.Sc. in Electrical and Automation Engineering</u> INP-ENSEEIH</p> <p style="text-align: center;">Option : Control, Decision and Critical Computing Systems</p> <p style="text-align: center;">Title : <i>Design of a versatile electronic demonstrator for the measurement of displacements by optical re-injection in a laser diode, with control of the emitted beam.</i></p> <p style="text-align: center;">Supervisors : Julien PERCHOUX and Antonio LUNA ARRIAGA</p>	Toulouse, France
Aug-2012	<p style="text-align: center;"><u>B.Sc. in Electronics Engineering</u> Universidad Autónoma de Baja California</p> <p style="text-align: center;">Option : Control Systems - <i>with Honors</i></p> <p style="text-align: center;">Final Project : <i>Design of an embedded system for agricultural applications.</i></p>	Ensenada, Mexico

Teaching

Oct/Dec-2017	<p style="text-align: center;">Embedded Systems (20h)–Master 2 Aix-Marseille Université</p>	Marseille, France
Sep/Nov-2016	<p style="text-align: center;">Embedded Systems (20h)–Master 2 Aix-Marseille Université</p>	Marseille, France
Feb/Apr-2016	<p style="text-align: center;">Synchronous Microcontrollers Programming (30h)–Bachelor L1 Aix-Marseille Université</p>	Marseille, France

Price – Awards

<p style="text-align: center;">High academic achievement by the National Evaluation Center (CENEVAL) Universidad Autónoma de Baja California, Promotion 2012 B.Sc. in Electronic Engineering, Honors.</p>
<p style="text-align: center;">Mexico-France Exchange Engineers Technology (MEXFITEC) Electronic and Signal Processing, 2nd scholar year. INP-ENSEEIH</p>

Speeches

January/2017	L'École Jeunes Chercheurs et Chercheuses en Informatique Mathématique ENS-Lyon	Lyon, France
June/2017	Seminar CANA, LIS Modeling a Resilient System using Non-monotonic Logic. <i>Campus Luminy</i>	Marseille, France
July/2017	Journées Francophones sur la Planification, la Décision et l'Apprentissage pour la Conduite de Systèmes PFIA 2017	Caen, France
November/2017	Seminar LIRICA, LIS Non-monotonic Reasoning and Uncertain Decision-Making : Application to an Autonomous Glider. <i>FRUMAM, Campus St. Charles</i>	Marseille, France

Languages

Spanish Mother tongue	English Advanced level	Français Advanced level	Portugais Basic-Intermediate level
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Technical Skills

Text editor : \LaTeX , Vim ; Programming languages : Prolog, C/C++, Python, Bash, HTML/CSS, PHP, MySQL, MATLAB ; OS : macOS, Linux ;
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Publications

- [1] José-Luis Vilchis-Medina, Karen Godary-Déjean, and Charles Lesire. Autonomous decision-making with incomplete information and safety rules based on non-monotonic reasoning. *IEEE Robotics and Automation Letters*, 6(4) :8357–8362, 2021.
- [2] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. A resilient behavior approach based on non-monotonic logic. *Journées d'Intelligence Artificielle Fondamentale*, page 16, 2020.
- [3] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. A resilient behavior approach based on non-monotonic logic. In *Mexican International Conference on Artificial Intelligence*, pages 403–413. Springer, 2019.
- [4] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. An implementation of a nonmonotonic logic in an embedded computer for a motor-glider. In *35th International Conference on Logic Programming (ICLP)*. Accepted, 2019.
- [5] José Luis Vilchis Medina, Pierre Siegel, Vincent Risch, and Andrei Doncescu. Intelligent and adaptive system based on a non-monotonic logic for an autonomous motor-glider. In *2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV)*, pages 442–447. IEEE, 2018.
- [6] José Luis Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Non-monotonie et resilience : Application au pilotage d'un motor-planeur autonome. *Journées d'Intelligence Artificielle Fondamentale*, 12 :6, 2018.
- [7] José-Luis Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Contrôle de vol d'un planeur basé sur une logique non-monotone. In *Journées Francophones sur la Planification, la Décision et l'Apprentissage pour la conduite de systèmes (JFPDA 2017)*, 2017.

- [8] Vilchis Medina, Pierre Siegel, and Andrei Doncescu. Autonomous aerial vehicle based on non-monotonic logic. In *3rd International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS)*, page 6p, 2017.