

Curriculum Vitae

José-Luis Vilchis-Medina

➔ *PhD. in Computer Science*^a

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a. (based-logic Artificial Intelligence)

► Current Situation ◀

Sep-2023/today	ENSTA Bretagne <i>Lab-STICC (UMR 6285), ROBEX team.</i> Researcher of Computer Science working on multi-agent coordination and behavioral simulation.	Brest, France
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◀ Employment Situation ▶

Oct-2021/Aug-2023	French Naval Academy <i>French Naval Academy Research Institute (IRENav EA3634), MoTIM group.</i> Assistant Professor of Computer Science.	Brest, France
Oct-2020/Sep-2021	ONERA-The French Aerospace Lab <i>DTIS – Traitement de l'information et systèmes, Systèmes Embarqués, Autonomes et Sûrs (SEAS) unit.</i> Postdoctoral position	Toulouse, France
Oct-2019/Sep-2020	Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier – LIRMM <i>EXPLORE team.</i> Postdoctoral position	Montpellier, France
Sep-2018/Aug-2019	Aix-Marseille Université CALcul NATurel team <i>Faculty of Sciences, Bachelor in Computer Science.</i> Teaching-Research position (ATER ≈ 192H)	Marseille, France

► Research Interest ◀

- *Knowledge Representation & Reasoning*
- *Non-classical Reasoning*
- *Logic & Proof Theory*
- *Planning and Decision Theory*
- *Autonomous-Intelligent Agents*
- *Embedded Systems*

► Education ◀

PhD. in Computer Science Laboratoire d'Informatique et Systèmes (LIS) CALcul NATurel team	
Title : <i>Modeling of Resilient System in Default Logic. Application to Solar Power UAV.</i>	
Oct-2015/Dec-2018	Marseille, France
(Supervisor) PR Pierre Siegel, LIS, Marseille (co-Supervisor) PR Andrei Doncescu, LAAS, Toulouse (<i>Rapporteur</i>) PR Lakhdar Saïs, CRIL, Lens (<i>Rapporteur</i>) PR Jacques Demongeot, Université Grenoble Alpes PR Amal El Fallah Seghrouchni, LIP6, Paris PR Yves Lacroix, Université de Toulon MCF Vincent Risch, LIS, Marseille	
M.Sc. in Electrical and Automation Engineering INP-ENSEEIH	
Option : Control, Decision and Critical Computing Systems	
Sep-2015	Toulouse, France
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>	
Supervisors : Julien PERCHOUX and Antonio LUNA ARRIAGA	
B.Sc. in Electronics Engineering Universidad Autónoma de Baja California	
Aug-2012	Ensenada, Mexico
Option : Control Systems - <i>with Honors</i>	
Final Project : <i>Design of an embedded system for agricultural applications.</i>	

► Price – Awards ◀

High academic achievement by the National Evaluation Center (CENEVAL) Universidad Autónoma de Baja California, Promotion 2012 B.Sc. in Electronic Engineering.
Mexico-France Exchange Engineers Technology (MEXFITEC) Electronic and Signal Processing, 1-year exchange (BAC+4) at INP-ENSEEIH.

► Languages ◀

Spanish Mother tongue	English Advanced level	Français Advanced level	Portugais Intermediate level
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► Technical Skills ◀

Text editor : L ^A T _E X, Vim; Programming languages : Prolog, C/C++, Python, Bash, HTML, Matlab, ROS2/Gazebo; Operating System : macOS, Linux, Windows (less usage)
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► Supervision ◀

— 2022

— Master Students :

- Tom Ravaud from ParisTech, Master 1, research internship (6 months). Working on “Automatic docking of a drone on a mobile platform using ROS2”.
- Maelys Lupin from ENIB, Master 1, mentored projet (4 months). Working on “Modeling of a hexapod robot using ROS2”.

► Publications ◀

- [9] José Luis VILCHIS MEDINA. “Evaluation and Identification of Properties in a Set of Information through Qualitative and Non-monotonic Reasoning”. In : *The 6th International Conference on Computer Science and Artificial Intelligence (CSAI, abstract only)* (2022).
- [8] José-Luis VILCHIS-MEDINA, Karen GODARY-DÉJEAN et Charles LESIRE. “Autonomous Decision-Making With Incomplete Information and Safety Rules Based on Non-Monotonic Reasoning”. In : *IEEE Robotics and Automation Letters* 6.4 (2021), p. 8357-8362.
- [7] José Luis Vilchis MEDINA et al. “A Resilient Behavior Approach Based on Non-monotonic Logic”. In : *Journées d’Intelligence Artificielle Fondamentale* (2020), p. 16.
- [6] José Luis Vilchis MEDINA et al. “A Resilient Behavior Approach Based on Non-monotonic Logic”. In : *Mexican International Conference on Artificial Intelligence*. Springer. 2019, p. 403-413.
- [5] José Luis Vilchis MEDINA et al. “An Implementation of a Nonmonotonic Logic in an Embedded Computer for a Motor-glider”. In : *35th International Conference on Logic Programming (ICLP)*. Accepted. 2019.
- [4] José Luis Vilchis MEDINA, Pierre SIEGEL et Andrei DONCESCU. “Non-monotonie et Resilience : Application au Pilotage d’un Motor-planeur Autonome”. In : *Journées d’Intelligence Artificielle Fondamentale 12* (2018), p. 6.
- [3] José Luis Vilchis MEDINA et al. “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)*. IEEE. 2018, p. 442-447.
- [2] José-Luis Vilchis MEDINA, Pierre SIEGEL et 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.
- [1] Vilchis MEDINA, Pierre SIEGEL et Andrei DONCESCU. “Autonomous Aerial Vehicle Based on Non-Monotonic Logic”. In : *3rd International Conference on Vehicle Technology and Intelligent Transport Systems (VE-HITS)*. 2017, 6p.