

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 ◀

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| • <i>Knowledge Representation & Reasoning</i> | • <i>Planning and Decision Theory</i> |
| • <i>Non-classical Reasoning</i> | • <i>Autonomous-Intelligent Agents</i> |
| • <i>Logic & Proof Theory</i> | • <i>Embedded Systems</i> |

► Education ◀

<p>Oct-2015/Dec-2018</p>	<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>(Supervisor) <u>PR Pierre Siegel</u>, LIS, Marseille (co-Supervisor) <u>PR Andrei Doncescu</u>, LAAS, Toulouse (<i>Rapporteur</i>) <u>PR Lakhdar Saïs</u>, CRIL, Lens (<i>Rapporteur</i>) <u>PR Jacques Demongeot</u>, Université Grenoble Alpes <u>PR Amal El Fallah Seghrouchni</u>, LIP6, Paris <u>PR Yves Lacroix</u>, Université de Toulon <u>MCF Vincent Risch</u>, LIS, Marseille</p>	<p style="text-align: right;">Marseille, France</p>
<p>Sep-2015</p>	<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>	<p style="text-align: right;">Toulouse, France</p>
<p>Aug-2012</p>	<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>	<p style="text-align: right;">Ensenada, Mexico</p>

► 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.</p>	
<p style="text-align: center;">Mexico-France Exchange Engineers Technology (MEXFITEC) Electronic and Signal Processing, 1-year exchange (BAC+4) at INP-ENSEEIH.</p>	

► Languages ◀

<p>Spanish Mother tongue</p>	<p>English Advanced level</p>	<p>Français Advanced level</p>	<p>Portugais Intermediate level</p>
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► Technical Skills ◀

<p>Text editor : \LaTeX, Vim ; Programming languages : Prolog, C/C++, Python, Bash, HTML, Matlab, ROS2/Gazebo ; Operating System : macOS, Linux, Windows (less usage)</p>

► 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 ◀

- [10] José-Luis VILCHIS-MEDINA. “Building Intelligent Databases through Similarity : Interaction of Logical and Qualitative Reasoning (accepted)”. In : *The 7th International Conference on Algorithms, Computing and Artificial Intelligence (ACAI), 2024* (2024).
- [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.