

TRAVE-MASSUYES Louise (ORCID: 0000-0002-5322-8418)Nationality: French and Spanish, web site: <https://homepages.laas.fr/louise/>

- **CURRENT POSITION**

Directrice de Recherche, CNRS,
LAAS, Toulouse, France.

- **EDUCATION**

1998 HDR, Université Paul Sabatier, Toulouse, France
1984 PhD, INSA Toulouse, France
1982 MsC (Engineer): INSA Toulouse, France

- **INTERNATIONAL RECOGNITION (honors, prizes)**

- Dagstuhl Seminar on « Fusing Causality, Reasoning, and Learning for Fault Management and Diagnosis », January 2024.
- « Outlier irregular time series detection », invited talk at the 20th anniversary of the Institute for Software Technology at the Graz University of Technology, Austria, 14-15 Dec.23.
- « Lifetime Achievement Award » from the Diagnosis Principles (DX) community, 2019.
- Contributions of diagnosis to the general demand for AI in the industry (Invited plenary talk). In 30th International Workshop on Principles of Diagnosis (DX-19), Klagenfurt, Austria, November 2019. Also, in 32nd International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2019), Graz, Austria, July 2019.
- IFAC Service Award for contributing as Finance Chair to the organization of the IFAC World Congress, Toulouse, France, 9-14 July 2017, and as SAFEPROCESS Technical Committee member, 2018.
- Data mining and automated model building (Invited plenary talk). In IEEE INTERCON 2017, Cuzco, Peru, 15-18 August 2017.
- Dagstuhl Seminar on « Symbolic-Numeric Methods for Reliable and Trustworthy Problem Solving in Cyber-Physical Domains », Set-membership Identifiability and its application to Fault Detection and Identification (Invited talk), Dec. 2016.

- **SUPERVISION:** 32 PhD students (3 on-going), 6 post-Docs.

- **SCIENTIFIC PRODUCTION:** <https://homepages.laas.fr/louise/drupal/content/publications>.

- **5 MOST RELEVANT PAPERS (10 last years), Google Scholar Id: N8T4gzQAAAAJ, h index: 35**

1. Mur, A., Travé-Massuyès, L., Chantry, E., Pons, R., & Ribot, P. (2022). A Neural Algorithm for the Detection and Correction of Anomalies: Application to the Landing of an Airplane. *Sensors*, 22(6), 2334. <https://hal.archives-ouvertes.fr/hal-03615011> DOI : 10.3390/s22062334
2. Duong, L. T., Travé-Massuyès, L., Subias, A., & Barbosa Roa, N. (2021, August). Assessing product quality from the production process logs. *The International Journal of Advanced Manufacturing Technology*, 1-17. <https://hal.archives-ouvertes.fr/hal-03326882> DOI : 10.1007/s00170-021-07764-2
3. Roussel, S., Pucel, X., Bouziat, V., & Travé-Massuyès, L. (2020, July). Model-based synthesis of incremental and correct estimators for discrete event systems. In 29th Int. Joint Conf.on Artificial Intelligence and 17th Pacific Rim Int. Conf. on Artificial Intelligence (IJCAI-PRICAI-20), 1884-1890. <https://hal.archives-ouvertes.fr/hal-02982277> DOI : 10.24963/ijcai.2020/261
4. Barbosa Roa, N., Travé-Massuyès, L., & Grisales-Palacio, V. H. (2019, October). DyClee: Dynamic clustering for tracking evolving environments. *Pattern Recognition*, 94, 162-186. <https://hal.archives-ouvertes.fr/hal-02135580> DOI : 10.1016/j.patcog.2019.05.024
5. Travé-Massuyès, L. (2014). Bridging control and artificial intelligence theories for diagnosis: A survey. *Engineering Applications of Artificial Intelligence*, 27, 1-16. <https://hal.archives-ouvertes.fr/hal-01131188> DOI : 10.1016/j.engappai.2013.09.018

- **EDITORIAL ACTIVITIES**

- Since 2016, Associate Editor of the *Artificial Intelligence Journal* (<https://www.journals.elsevier.com/artificial-intelligence>); 2013-2016, Member of the Editorial Board
- Since 2000, Member of the Technical Committee Safeprocess of IFAC (<http://tc.ifac-control.org/6/4>)

- **COLLABORATIONS:** Artificial Intelligence Group at the Data61 and the Australian National University, Australia; Universitat de Catalunya, Spain; Pontificia Universidad Católica del Perú; Stellenbosch University, South Africa; Universidad Nacional de Colombia; Universidad de Sevilla, Universitat de Girona, Spain; Technische Universität Graz, Institute for Software Technology; Klagenfurt University, Joanneum Research, Austria; Ruhr-University Bochum, Bochum, Germany; Universidad de Los Andes, Facultad de Ingeniería, Mérida, Venezuela.

- **TEACHING ACTIVITIES (current or planned):** lectures on theories of diagnosis and qualitative reasoning.