

ONE PAGE EXPERTISE DESCRIPTION

INFORMATION ABOUT THE EXPERT

ORGANISATION	TRAIL Institute
ADDRESS	Place du Levant, 3 1348 Louvain-la-Neuve (BELGIUM)
TYPE OF PARTNER	University & Research Center
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POSITION	Project Office Manager / Project Liaison Officer
DATE OF PUBLICATION	

EXPERTISE OVERVIEW

TOPIC(S) OF INTEREST: human-ai interaction, trusted ai, model-driven ai, embedded ai

HEADLINE: Artificial intelligence research in the Walloon ecosystem

POTENTIAL CONTRIBUTION:

TRAIL aims at creating a structure allowing to mobilize the research and innovation capacities of the Walloon and Brussels regions for their socio-economic development in the field of Artificial Intelligence in coherence with the regional policies conducted in this field.

TRAIL mobilizes the expertise of all French-speaking universities and the digital know-how of all the research centers active in AI in the region. Our competences encompass the fields of Human-AI interaction, Trusted AI, Model-Driven AI, as well as Embedded AI, with up to up to 600 researchers active therein; 140 of which have signed the TRAIL Researcher's Charter, placing a particular emphasis on trustworthiness and explainability of AI systems. The focus is on the domains: medicine, media, mobility, manufacturing, and energy, with the research work being structured around the following seven grand challenges (more to come):

- Hybrid Modelling Methods towards an Augmented Engineering: The Use Case of AI-enabled Additive Manufacturing
- Machine Learning-based Energy Prediction, Management, and Optimization Towards Better Energy Decision-Making Process
- Full-Spectrum Privacy-Preserving Artificial Intelligence
- Weakly-Supervised Machine Learning, Towards a More General AI
- Trustworthy AI for Critical Systems
- Interactions with State-of-the-Art AI to reach Zero-Defect, Zero-Accident, and Zero-Burnout in a Production Environment
- Using Advanced AI Solutions to Achieve "First Time Right" and "Consistent Product Quality" Throughout the Product Development and Manufacturing Cycle

Additionally, TRAIL's goal is to have a socio-economic impact. The ambition is to ensure that AI research can meet the R&D application problems of the Walloon socio-economic fabric. To this end, a membership program has been launched with companies in order to have a vision of their needs. As a result, TRAIL is working in close collaborations with key industrial players, such as Thales Belgium, I-Care, or Business & Decision (part of the Orange Group). Through its members TRAIL is part of the European Testing and Experimentation Facility led by the Charité Hospital in Berlin and multiple other projects in artificial intelligence in the scope of the EU's Horizon Europe, Digital Europe, etc. programs.