

ARNAULT PACHOT

Founder & CEO – Emotia
| PhD in Computer Science | AI, industrial resilience
| recommender systems

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Executive Profile

Researcher and entrepreneur, founder of OpenStudio (2006–2023), ranked among high-growth companies in Europe. Holder of a PhD in Computer Science from Université Clermont-Auvergne, specialized in industrial resilience modeling and recommender systems. Arnault Pachot is a regular speaker on GreenIT and responsible digital transformation, with a focus on combining scientific rigor and operational impact. Arnault Pachot co-authored the Dunod book *AI and Environment: Alliance or Nuisance*, dedicated to practical pathways for environmentally responsible AI. Since late 2023, Arnault Pachot has been building Emotia to develop nuanced and emotional AI systems designed for real-world decision contexts.

Key Achievements

- 17 years of entrepreneurial experience.
- Led OpenStudio until 2023: EUR 7.6M revenue and 110 employees.
- Embedded CSR practices, open-source culture, and responsible AI usage.
- Distinctions: Champion de la Croissance, Deloitte EMEA Fast 500, EY Entrepreneur of the Year nomination.

Entrepreneurial Experience

2023 – **Founder & CEO**, *Emotia*, Paris, France

- Present
- Leads strategy, product, and R&D for simulation and decision-support platforms.
 - Develops responsible AI solutions with model transparency and measurable impact.

2006 – 2023 **Founder & CEO**, *OpenStudio*, France

- Scaled the company to 110 employees and EUR 7.6M annual revenue.
- Built a digital innovation culture combining open-source and sustainability.

Education

2023 **PhD in Computer Science**, *Université Clermont-Auvergne*, France

2018 **Executive MBA**, *EM Lyon*, France

Research

PhD research (2023): resilient socio-economic systems and AI for responsible reindustrialization.

Arnault Pachot is the author of multiple peer-reviewed publications on enterprise synergies, industrial resilience, and data-driven company diversification.

Co-author of the book *Intelligence artificielle et environnement: alliance ou nuisance ?* (Dunod, 2022).

Core Skills

Responsible digital strategy & innovation	Design and leadership of digital platforms with ethics, transparency, and sustainability by design.
AI & socio-economic modeling	Use of deep learning, recommender systems, multi-agent simulation, and LLMs to support decision making.
SaaS platform development	Design of secure SaaS solutions across backend, frontend, and visualization integration.

Publication List

1. Thierry Petit, Arnault Pachot (2026).
Exact Synthetic Populations for Scalable Societal and Market Modeling.
CoRR abs/2512.07306. Accepted at CPAIOR 2026.
2. Enzo Sinacola, Arnault Pachot, Thierry Petit (2025).
LLMs, Virtual Users, and Bias: Predicting Any Survey Question Without Human Data.
Proceedings of 17th International Conference on Machine Learning and Computing, pages 396–407. Springer Nature.
3. Thierry Petit, Arnault Pachot, Claire Conan-Vrinat, Alexandre Dubarry (2025).
A Declarative Framework for Large Language Model Integration: Towards a New Theory of Task-Specific AI Orchestration.
Proceedings of 17th International Conference on Machine Learning and Computing, pages 474–488. Springer Nature.
4. Thierry Petit, Arnault Pachot, Claire Conan-Vrinat, Alexandre Dubarry (2024).
Declarative Integration and Management of Large Language Models through Finite Automata: Application to Automation, Communication, and Ethics.
CoRR abs/2409.13693.
5. Arnault Pachot (2023).
Les donnees ouvertes et l'Intelligence Artificielle (IA) peuvent-elles favoriser la mutation de l'industrie francaise vers un systeme productif plus resilient ? : Vers une approche novatrice pour renforcer l'industrie francaise et favoriser la resilience face aux defis economiques et environnementaux.
PhD thesis, Universite Clermont Auvergne, 2023. HAL: <https://theses.hal.science/te1-04381896>.
6. Claire Verdier, Stephane Perriot, Arnault Pachot (2023).
Weighted Cross-Entropy to Tackle Overlapping in Fraud Detection.
ICMLC 2023: 211–216.
7. Arnault Pachot, Adelaide Albouy-Kissi, Benjamin Albouy-Kissi, Frederic Chausse (2022).
Decision Support System for Distributed Manufacturing based on Input-Output Analysis and Economic Complexity.
CoRR abs/2201.00694.
8. Arnault Pachot, Celine Patissier (2022).
Towards Sustainable Artificial Intelligence: An Overview of Environmental Protection Uses and Issues.
CoRR abs/2212.11738.
9. Arnault Pachot, Adelaide Albouy-Kissi, Benjamin Albouy-Kissi, Frederic Chausse (2021).
Production2Vec: A Hybrid Recommender System Combining Semantic and Product Complexity Approach to Improve Industrial Resiliency.
ICAIS 2021: 5:1–5:6.
10. Kevin Cortial, Arnault Pachot (2021).
Sodinokibi Intrusion Detection Based on Logs Clustering and Random Forest.
ICAIS 2021: 8:1–8:4.
11. Arnault Pachot, Adelaide Albouy-Kissi, Benjamin Albouy-Kissi, Frederic Chausse (2021).
Multiobjective Recommendation for Sustainable Production Systems.
MORS@RecSys 2021.