AI LAB
ARTIFICIAL INTELLIGENCE LAB

The Artificial Intelligence Lab of the Vrije Universiteit Brussel is a consortium of three renowned research groups housing computer scientists, linguists, mathematicians and economists. Their expertise ranges from the mathematical foundations of artificial intelligence over reinforcement learning and language processing to data analysis and business-oriented value creation.

HIGHLIGHTS

- **First AI lab on the European mainland**, 35 years of experience
- Interdisciplinary team that performs **fundamental and applied research**
- Focus on **online, dynamic algorithms** that interact with users

5 spin-offs

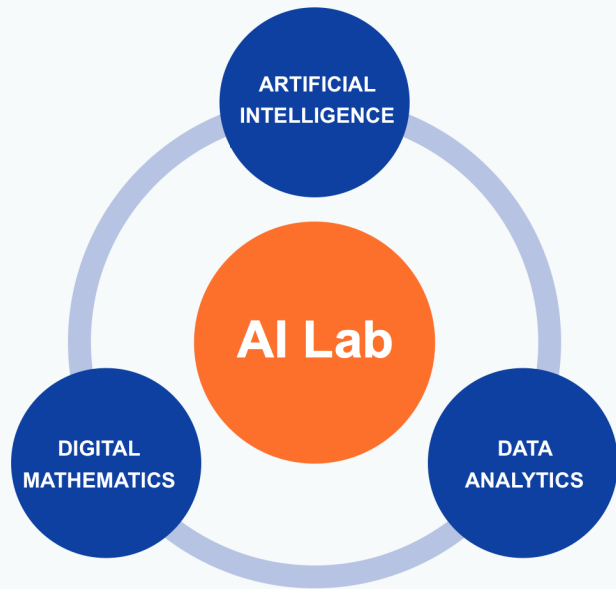12 professors

30+ projects

850 publications

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VUB

ARTIFICIAL INTELLIGENCE RESEARCH GROUP

- **Fundamental research**
1. Artificial intelligence: reinforcement learning, multi-agent systems, language processing and learning, evolution of language, computational biology, evolutionary game theory, recommender systems, computational creativity;
2. Digital mathematics: data pre- and post-processing, statistical analysis, harmonic and wavelet analysis, system identification, digital forensics and security.
3. Data analytics: pattern discovery, uplift modeling, network analytics, profit-driven analytics, cost-sensitive learning, interpretability and justifiability of machine learning models.

- **Applications**
1. Cyber-physical systems: robotics, wireless sensor networks, energy grids, wind farm control;
2. Human-computer interaction: intelligent language tutoring, distortion detection, document lay-out analysis, digital art investigation, medical instrumentation;
3. Business: privacy-enabling security, credit risk modeling, fraud detection, customer analytics, human resources analytics, mobility, transport and supply chain management.

We continuously investigate how we can **help companies become more innovative and increase their excellence through the potential of AI**. Contact us for training, consultancy and short/long term collaborations through thesis students, joint PhDs or research projects.

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