



University Grenoble Alpes



MIAI @ Grenoble Alpes

MIAI
Multidisciplinary
Institute in
Artificial Intelligence



MIAI: Objectives

Institute to support the development of education, research and transfer in AI, at the service of human beings and the environment

- ▶ Develop a world-class interdisciplinary research in AI and AI for the human beings and the environment
- ▶ Offer attractive courses in AI and its applications for students of all levels and all ages and professionals
- ▶ Sustain innovation in AI and develop AI in major companies, SMEs and start-ups
- ▶ Inform and interact with citizens on all aspects of AI

MIAI: Public partners



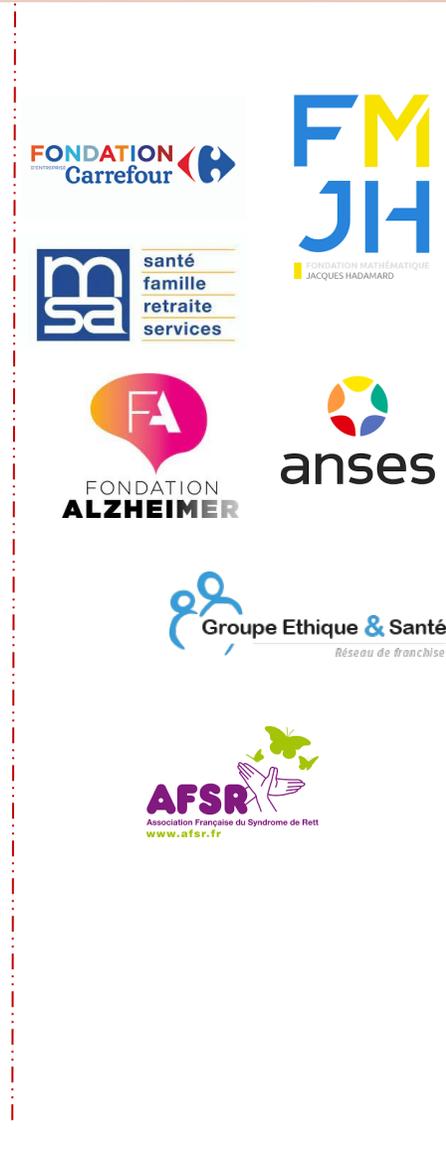
Private partners

VSME

SME

Big enterprises

Foundations & Associations



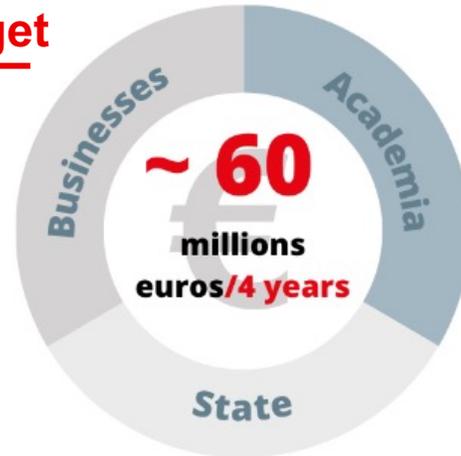
Innovation



- **90** partenaires privés; **150** projets collaboratifs
- **10** start-ups créées (**10** en cours)
- **2** laboratoires avec des industriels (Orange & Constellium)

Budget

23.5M€ fonds privés, 22M€ ANR



Education



- **2600+** étudiants par an
- **14** parcours « cœur IA », **33** parcours « applications en IA »

R&D



- **≈250** permanents,
- **160** doctorants, **40** postdocs
- **30** chaires, **150** projets collaboratifs, **25** projets exploratoires, **30** projets pour la promotion de l'IA
- **1000+** publications, **29** brevets

Principales Distinctions

- **5** ERC grants,
- **2** CNRS médailles d'argent,
- **5** nominations IUF,
- **2** nomination à l'académie des Sciences



Governance



A joint private-academic institute for developing AI for the human beings and the environment

At the core of MIAI

From hardware architectures to AI & society
through machine learning, perception &
interaction

Health

Environment
&
energy

Industry
4.0

A joint private-academic institute for developing AI for the human beings and the environment

At the core of AI

% of ANR budget for chairs: 73
% of (post-)docs hired in chairs: 74
62 contracts with private partners,
totaling 5.2M€ (44% of private support)

Environment & energy

% of ANR budget for chairs: 8
% of (post-)docs hired: 11
21 contracts with private partners,
totaling 1.6M€ (14% of private support)

At the core of MIAI

From hardware architectures to AI & society
through machine learning, perception &
interaction



Health

% of ANR budget for chairs: 13
% of (post-)docs hired: 13
25 contracts with private partners,
totaling 1.75M€ (15% of private support)

Industry 4.0

% of ANR budget for chairs: 6
% of (post-)docs hired: 3
9 contracts with private partners,
totaling 0.37M€ (3% of private support)

Collaborations Internationales



MIAI@Grenoble Alpes est dans 2 réseaux européens, **CLAIRE** et **ELLIS**, ainsi que dans 2 réseaux d'excellence européens (**TAILOR** et **HumaneAI**)

- **3** “” chaires internationales
- Participation à **4** réseaux d'excellence européens (ELLIS, CLAIRE, **TAILOR** et **HumaneAI**)
- Participation à de grands projets internationaux (**6** Eur., **4** EIT Health, **1** France-Singapour, **3** Allemagne)
- **Lab. Internationaux communs**: Swansea Univ. (2022) et Tsukuba Univ.

Education: labelling of AI training course

MIAI certifies training tracks integrating artificial intelligence, such as:

- **Short courses** leading to certification (certificates, university diplomas);
- **Long diploma courses (bachelor's degrees, master's degrees, engineering diplomas).**

Several courses at Grenoble Alpes University and its partners are labeled according to two MIAI labels:

<https://miai.univ-grenoble-alpes.fr/education/long-programs-for-degrees-in-ai/>

- **AI Core** : Design and development of AI technologies taking into account algorithms selection, implementation and integration.
- **AI & application** : Use of AI for disciplinary fields
 - ▶ health, environment, energy, mobility, industry 4.0, management, etc.).

Each label specifies a portfolio with dedicated skills and related observables.

Innovation

Two main missions with key objectives

Disseminate, educate and inform the Grenoble Alpes ecosystem about technological advances in AI

- **Demystify** artificial intelligence and its uses
- **Provide education/guidance** to market players (from application to market)
- **Spread** the message of the leaders of innovation in AI
- Develop and foster a growing **AI innovation community** by sharing and debating critical innovation experiences and use-cases

Promote and support Innovation

- **Screening and detection:**
An in-depth analysis of MIAI research projects (Chairs & Exploratory projects) in order to assess the level of technological maturation in order to propose R&D partnership and/or transfer models appropriate to the project.
- **Supporting startup creation in AI:**
In close collaboration with the different research laboratories and structures of Grenoble Alpes.
- Support AI startup projects and **help transfer AI technologies to startups/SMEs.**

Value proposition

Access to high-level research partnerships in AI



Access to a pool of outstanding students



Access to certified and qualified training for our partners' employees



Help for decision making

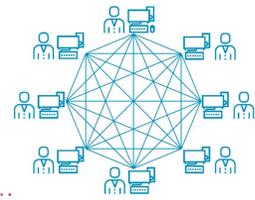
Which path of R&D?



Transfer of technology and know-how



Easy access to MIAI research institutions
Access to the MIAI partner network



Become a member of consortia in the framework of outstanding international projects



Opportunity to innovate in AI

MIAI value proposition for private partners

Working groups (1)

❖ Diversity

- *Women in AI* – in collab. with other 3IA (2021, 2022)
- Coming soon
 - “Ce que l’IA apporte pour l’égalité” (round table, 8 March 2022)
 - “La question du genre de la technologie” (round table, mid-March 2022)
- Coming: short videos of female (post-)doctoral students & res. targeting young girls (high school, college)

Some figures

- **25%** of women among permanent members
- Non permanent members
 - ✓ PhD students: **24%**
 - ✓ Post-Doctoral students: **30%**
 - ✓ Engineers: **50%**
- **26%** of women (co-)responsible of chairs

Working groups (2)

- ❖ Data group
 - Data group with members from the UGA data cell and engineers from different structures (in particular Grenoble Alpes Research/Scientific Computing and Data Infrastructure)
 - Strong connections with actors in the medical domain (as Health Data Hub)

- ❖ Frugal AI
 - First actions: raise awareness and measure (quantify) the impact of AI
 - In the pipeline: deploy measurement systems at a larger scale (IDRIS – Jean Zay)

- ❖ PhD club
 - Scientific seminars (with other 3IA), discussions
 - Social activities

Outreach activities

Partnership with established actors of scientific outreach

- ▶ AI literacy program, targeting citizens and young people
- ▶ Dedicated AI sessions for high school teachers (started in 2019)
 - Presentations and training (for both teachers and students) in schools and high schools
 - Kit *Discover AI through games*
- ▶ Meetup and events targeting a wide audience (50+ presentations or participation to round tables in such events)

AI & Arts

Collaborations with *Hexagone* (national arts-sciences scene)

- Workshops on AI with scientists and artists (Aniti partly involved)
- Mobile app for a theater play

Collaboration with *Les Sens des Mots*: theater play on a scientist (festival d'Avignon, Grenoble)

Collaboration with *La Compagnie du Jour*: theater play with chatbot as character (several French speaking countries)

Animation

- ❖ Many events to share recent advances and developments in AI
 - MIAI monthly meetings, yearly MIAI days
 - Workshops, seminars, regular winter and summer schools (700+ participants in 2021)
 - Webinars, MIAInnovation quarterly

- ❖ 3IA network
 - Joint research projects with common students
 - Joint winter/summer schools
 - Joint actions on, e.g., diversity and PhD clubs

- ❖ Presence on Twitter, YouTube, LinkedIn (links from <https://miai.univ-grenoble-alpes.fr/>)

Follow our institute



MIAI Grenoble Alpes
69 Tweets

MIAI Grenoble Alpes
@MIAI_UGA
Multidisciplinary Institute in Artificial Intelligence - Grenoble Alpes
Grenoble, France miai.univ-grenoble-alpes.fr Joined March 2019

Edit profile

miai.univ-grenoble-alpes.fr

MIAI Grenoble Alpes
Multidisciplinary Institute in Artificial Intelligence

EN / FR

MIAI INSTITUTE RESEARCH EDUCATION BUSINESS MIAI & SOCIETY ONGOING CALLS EVENTS & HIGHLIGHTS

MIAI GRENOBLE ALPES INSTITUTE

The Multidisciplinary Institute in Artificial Intelligence aims to conduct research in artificial intelligence at the highest level, to offer attractive courses for students and professionals of all levels, to support innovation in large companies, SMEs and startups and to inform and interact with citizens on all aspects of AI.



MIAI@GRENOBLE ALPES Vue super administrateur

Nouveau Toutes les pages Contenu Nouveau Statistiques Activité 1

MIAI@GRENOBLE ALPES
163 abonnés
7 h ·

#MIAI@Grenoble Alpes offers short teaching cycles in which courses, coordinated by MIAI, are given over a limited period of time, specifically aimed at people from the socio-economic world. More details : https://lnkd.in/d_BWQ5z

Voir la traduction

MIAI Grenoble Alpes

ACCUEIL VIDÉOS PLAYLIST

Vidéos en ligne TOUT REGARDER

Tutorial
Constituer son portefeuille de compétences en IA
4:38
26 vues · il y a 2 semaines

MIAI-DAY : La parole à six start-up IA de l'écosystème...
10:32
25 vues · il y a 1 mois

MIAI Grenoble Alpes : Multidisciplinary Institute in...
2:03
7 vues · il y a 1 mois

MIAI Cluster

2024-2030



An institute for Embedded, Interactive and Generative AI, frugal and trustworthy by design and beneficial to Humans and the Environment

