

Ph.D. research topic

- Title of the proposed topic:
Artificial intelligence for sustainable technological development
 - Research axis of the 3iA: **4**
 - **Supervisor (name, affiliation, email):**
Marina TELLER, UCA
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 - Potential co-supervisor (name, affiliation):
 - The laboratory and/or research group:
Gredeg, CNRS UMR 7321
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Apply by sending an email directly to the supervisor.

The application will include:

- **Letter of recommendation of the supervisor indicated above**
 - Curriculum vitæ.
 - Motivation Letter.
 - Academic transcripts of a master's degree(s) or equivalent.
 - At least, one letter of recommendation.
 - Internship report, if possible.
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- Description of the topic:

The links between artificial intelligence and sustainable development deserve to be deepened in two aspects.

Firstly, artificial intelligence is certainly a source of great technological promise. But it is also a fear and perhaps even a threat with regard to ecology and sustainable development.

Indeed, the technologies underlying artificial intelligence are very energy-intensive. Moreover, the supply of natural resources is also an important issue for the future of certain technologies, such as quantum physics. Secondly, artificial intelligence can provide radical solutions to today's major ecological problems. The collection and processing of data can be used for smart cities. The legal system will have to ensure that data processing respects fundamental rights in particular, but also sustainable development.

The ecological requirements of sustainable development have so far been affirmed in legal or regulatory texts. The challenge for tomorrow is to build an ecological and sustainable development based on technological devices and artificial intelligence systems, in compliance with the law.