

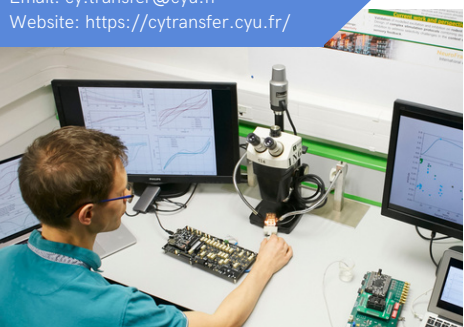


Transfer

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UMR 8051 CNRS/ENSEA/CYU

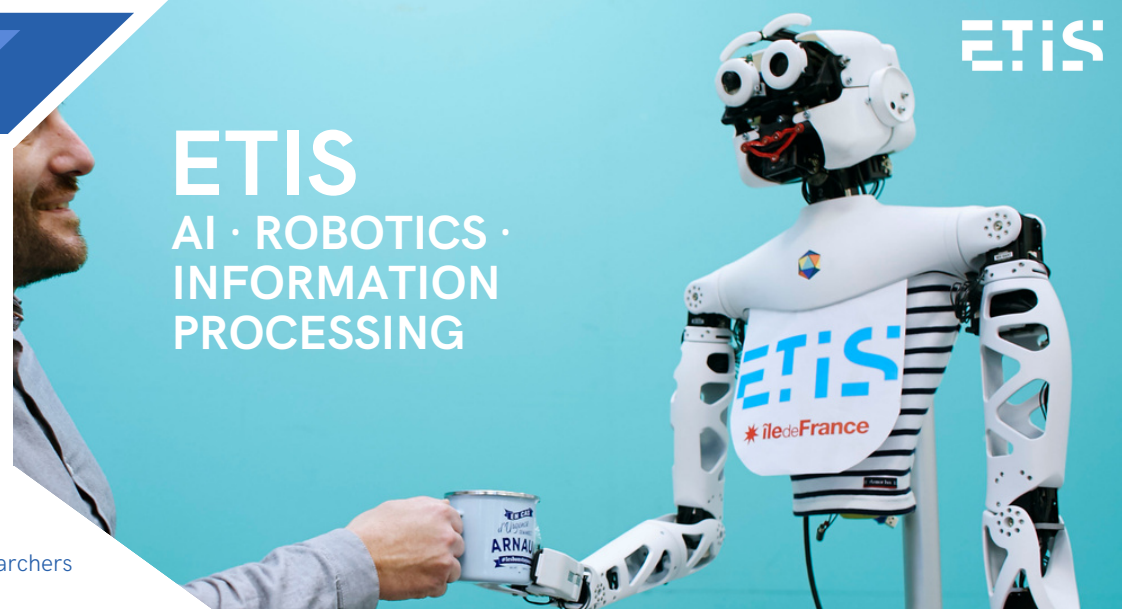
62 teacher-researchers

73 doctoral and postdoctoral researchers

ETIS

ETIS

AI · ROBOTICS · INFORMATION PROCESSING



ETIS is the main joint research unit (UMR) in the field of information science and technology on the Cergy site and in the north-west of Ile-de-France.

ETIS conducts theoretical and experimental research to design and optimise increasingly complex systems, and learning methods for intelligent systems that need to be flexible and adaptive.

This research has also led to technological advances in telecommunications and health.



KEYWORDS SCIENCE

- Multimedia data indexing and data integration
- Imaging
- Digital communications
- Neurocybernetics
- Reconfigurable systems-on-a-chip
- Neural networks
- AI

KEYWORDS APPLICATIONS

- Communication
- Robotics
- Mobility
- Health
- Security



APPLICATIONS AND INDUSTRIAL SECTORS

- E-Health
- Data mining
- Reliability of electronic and storage systems
- Intelligent and green radio
- Interactive and autonomous robotics
- Smart grid intelligence
- Internet of things



KNOW-HOW · SKILLS · EXPERTISE · SPECIFIC FEATURES

Learning and optimisation

- Bioinspired cognitive modelling, cognitive robotics, ML for computer vision, green telecommunication systems, information and game theory

Large scale intelligent processing

- Data mining for social networks, cultural heritage sciences, life sciences and medicine, distributed telecommunications networks, 6G communication, semantic communication, secure communication, IoT

Intelligent embedded systems

- Analogue and digital electronics, autonomous systems, small footprint systems, intelligent embedded systems for harsh environments

EQUIPMENT

79 pieces of equipment & 7 platforms

- Scientific computing platforms
- Mobility and robotics platform
- Movement workshop
- Intelligent embedded system platform
- Sound perception platform
- Digital heritage data platform
- Video capture platform

PATENTS · SOFTWARE

13 active patents

- Decoding, image processing, real time polyp detection, etc.

4 software programs / codes filed

- Big data, image and video indexing

INDUSTRIAL PARTNERSHIPS · SPIN-OFFS

2 spin-offs

- SEQUENCIA - developing solutions for multimodal video analysis, sequencing and indexing, particularly in sports
- AUGMENTED ENDOSCOPY - developing artificial intelligence solutions and innovations for gastroenterologists

10 to 15 industrial collaborations per year

- Fondation Léonie Chaptal, EXPERTIME, APSYS, VEDECOM, IDEMIA, ROBOCOL

SATT maturation project

- Algorithm for robotics

