

Associate Professor position at University Cote d'Azur

Artificial Intelligence for autonomous and communicating systems

Position number 633 to be filled on 1st September 2020

Presentation of the University

The [University Cote d'Azur](#) (UCA) is a multidisciplinary university with more than 26,000 students, 18% of them being foreign students. Located on the French Riviera throughout the Alpes-Maritimes department from Nice to Cannes, it comprises 9 training and research units (graduate schools), 2 research institutes and 2 engineering schools, as well as 44 research laboratories. The University Cote d'Azur has a staff of 2,700 permanent employees. The proposed position is located at [Polytech](#) Engineering School on the [SophiaTech Campus](#) in Sophia-Antipolis.

Teaching activities at Polytech Nice Sophia-Antipolis

The recruited candidate will teach in the electrical engineering department. He/she will have to demonstrate an experience in teaching digital systems and electronics. The Lecturer will be involved in courses, labs and projects of the first and second year of the engineering graduate school. The lecturer will complete the teaching needs in the fields of "embedded systems" and "autonomous systems", by bringing his/her skills among the following themes: connected objects (IoT), security, system verification, embedded operating systems (embedded Linux ...), embedded AI. Note that the courses should be conducted in English in order to improve international exchanges. Part of the service can also be carried out in the Polytech Engineering School *Parcours* (undergraduate PeiP). The recruited candidate will also have to participate in the administrative and management responsibilities of the department (project follow-up, internships, ...).

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Research activities at LEAT laboratory

The simultaneous deployment of Internet of Things (IoT) and Artificial Intelligence technologies is gradually leading to changes of digital embedded systems architectures and communication infrastructures to better support the transition towards increasingly intelligent and autonomous systems.

Autonomy must be considered from the point of view of the collected data, the decision making, as well as the energy to allow the deployment of AI in the most constrained applications. This is notably the case for applications studied in the local context of the Interdisciplinary Institute of Artificial Intelligence ([3IA](#)): autonomous cars, drones, satellites, connected objects...

[LEAT](#) laboratory has a strong experience in the design of bio-inspired artificial neural networks integrated into sensory-motor systems. For these devices, a major challenge concerns the cross-optimization of artificial neural network algorithms and the underlying digital architectures.

In this context, the LEAT would like to recruit an associate professor to reinforce the strong dynamics of the EDGE team on its research activities in embedded artificial intelligence and neuromorphic architectures, especially in the framework of site projects in which the team members are involved ([3IA](#), [DS4H](#), [IDEX UCA Jedi](#), [IRT St Exupery](#) ...).

The role of the recruited candidate will be to increase the scientific influence at the international and national level, in particular through the national GDR (CNRS Groups of Research: [SOC2](#), [BioComp](#) ...) to which LEAT is attached, and finally to contribute to the development of multidisciplinary, industrial and international collaborations.

From a fundamental and longer-term point of view, a research project on the future challenges of intelligent digital systems, the associated societal issues and the emergence of new paradigms for modelling and designing autonomous systems will be appreciated.

Contacts:

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Robert STARAJ, head of LEAT laboratory (robert.staraj@unice.fr)

RECRUITMENT PROCEDURE

Interested persons must register on GALAXIE web site:

<https://galaxie.enseignementsup-recherche.gouv.fr/antares/can/index.jsp>

and submit their application no later than 03/03/2020.

For any administrative or procedural questions, please contact the HR department:

drh.enseignants@unice.fr
