Computer science, interaction, digital transformation, information systems

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Research profile

Computer science, Interaction, digital transformation, information systems

The position is part of the research carried out by the Interaction and Cognition (COGITE) pole of the LIRIS lab, which consists in studying and designing dynamic systems in which several agents, human or software, interact. This research focuses on both the individual properties of the agents and those of the system as a whole, including their cognitive, motivational, emotional and behavioural capacities.

The hired applicant will have to lead his/her research in the area of development of approaches, models or tools accompanying the use of interactive devices by users in increasingly complex situations: changing user behaviours and capacities that are difficult to predict, a heterogeneity of new devices (mobile, tactile, tangible...), a diversity of environments (social/collaborative, mobility, formal and informal learning...). She/he will have a leading role in the development of interactive systems that integrate this complexity, whether in the field of human learning, multi-device interaction, dynamic adaptation to users, or information visualization. Finally, the recruited candidate must be familiar with user-centered design methods, and have contributed to the evaluation of interactive devices or systems in the laboratory and in an ecological context.

She/he will also have to strengthen the multidisciplinary anchoring with the human and social sciences (in particular within the ASLAN lab) of the COGITE pole, with applications in the fields of education, health, culture or the intelligent city.

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Teaching profile

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The recruited person will participate in computer science courses (in the broad sense), over the three years of the curriculum in the Industrial Engineering department. More specifically, he/she will in charge of building a course dedicated to Knowledge Management (approach, methods and tools), and of developing the existing course dealing with Distributed Information Systems, in relation to the changes brought about by digital transformation of the companies. This will contribute, among other things, to strengthening the position of Industry 4.0 in the Industrial Engineering curriculum.

He.she will also be likely to participate in other computer science courses with other colleagues of the department: algorithmics, object-oriented programming, system and process modeling (UML and BPMN 2.0), Human-Computer Interaction.

Lastly, the recruited person will actively take part in general activities such as supervising student internships and end-of-studies projects, and will be led to take administrative responsibilities. The candidate will have to demonstrate a good knowledge of the industrial world. Moreover, as the department is currently extending its course offer taught in English, he/she will have to carry out a significant part of his/her teaching duty in English. A sufficient level in French and English is required to be able to teach correctly in these two languages.