
Post-Doctoral / Research Engineer Position (M/F)

(Reference: SN_JLD_ING_OKLOS_022020)

Research topics	Imaging Security
Department	Digital Security
Publication date	21/02/2020
Start date	ASAP
Duration	Fixed Term Contract 16 mos.
Description	<p>Within the context of a national collaborative project related to the security of the Olympic and Paralympic Games of Paris 2024, EURECOM is engaged in developing new technologies for video surveillance beyond the state-of-the-art.</p> <p>We are actively looking for a post-doctoral researcher (M/F) to investigate the use of thermal and near infrared imagery for H24 crowd analysis. The work will include the study and development of artificial intelligence based techniques for automatic crowd analysis, crowd density estimation, and the detection of unexpected events. As the existing crowd analysis systems are mostly based on visible-light imagery, another key objective of the work is to investigate the use of different light spectra (thermal, near infrared) and to develop and to evaluate methods for spectrum conversion: thermal to visible, near infrared to visible. Programming skills (Matlab & Python) are required in order to develop modules to be integrated in the system prototypes for final technical demonstrations attached to the project.</p>
Requirements	<p>Education Level / Degree: Ph.D</p> <p>Field / specialty: Computer Vision, Image Processing, Pattern recognition</p> <p>Technologies: Machine Learning, Artificial intelligence</p> <p>Languages / systems: Matlab, Python</p> <p>Other skills / specialties:</p> <p>Other important elements:</p>
Application	<p>The application must include (I, II and III):</p> <ul style="list-style-type: none">• I-Curriculum Vitae• II-Motivation letter of two pages also presenting the perspectives of research and education• III-Names and addresses of three references <p>Applications should be submitted by e-mail to secretariat@eurecom.fr with the reference: SN_JLD_ING_OKLOS_022020</p>



Postal address CS 50193 - 06904 Sophia Antipolis, France

Contact secretariat@eurecom.fr

EURECOM is a French graduate school and a research center in digital sciences based in the international science park of Sophia Antipolis, which brings together renowned universities such as Télécom Paris, Aalto University (Helsinki), Politecnico di Torino, Technische Universität München (TUM), Norwegian University of Science and Technology (NTNU), Chalmers University (Sweden), Czech Technical University in Prague (CTU) and Technische Universität Wien (TU Wien). The Principality of Monaco is a new institutional member. The Institut Mines-Télécom is EURECOM's founding member.

EURECOM benefits from a strong interaction with the industry through its specific administrative structure: Economic Interest Group (kind of consortium), which brings together international companies such as: Orange, BMW Group Research & Technology, Symantec, SAP, IABG.

EURECOM deploys its expertise around three major fields: Digital Security, Data Science and Communication Systems. EURECOM is particularly active in research in its areas of excellence while also training a large number of doctoral candidates. Its contractual research is recognized across Europe and contributes largely to its budget.

Thanks to its strong ties set up with the industry, EURECOM was awarded the "Institut Carnot" label jointly with the Institut Telecom right from 2006. The Carnot Label was designed to develop and professionalize cooperative research. It encourages the realization of research projects in public research centers that work together with socioeconomic actors, especially companies.

EURECOM specifically encourages women to apply with a view towards increasing the proportion of female researchers.

EURECOM Campus SophiaTech – CS 50193, F-06904 Sophia Antipolis Cedex – www.eurecom.fr