

Calling for Scientific Researchers for an Internship Opportunity Sorbonne Centre for Artificial Intelligence (SCAI) Sorbonne University Abu Dhabi

The industrial chair of excellence of Sorbonne Center for Artificial Intelligence (SCAI) is soliciting applications for a Research Internship in artificial intelligence and machine learning related to drones recognition and tracking. The internship duration is six months and the work will be conducted at SCAI-Abu Dhabi premises and/or remotely; depending on work circumstances in the UAE. The intern will be offered a monthly stipend and at the end of the duration of the internship, the intern will receive an internship certificate issued by SCAI.

Position specifications

- Getting familiar with Stone Soup software (An open framework in PYTHON has been develop by US/CAN/UK/AUS MoDs)
- Applying python library and stone soup SW in simulating moving objects tracking using Kalman filter, extended Kalman filter, and particle filter (the effect of covariance values will be studied)
- Applying python library in simulating moving objects tracking using nonlinear regression techniques (evolutionary algorithms will be used for optimizing the non-liner regression parameters)

Knowledge in the following areas is an advantage:

- Good background in AI technics, machine learning, linear regression, discriminant functions, supervised and unsupervised learning, deep learning, classification, pattern recognition, reinforcement learning, and neural networks
- Knowledge of radars and signal processing

Required technical skills:

- Ability to communicate effectively in English, both orally and in writing
- Strong skills in programming languages such as Python, R, MATLAB, Java, and C++. Skills in Pytorch, TensorFlow, and Multi-agent programming are a plus

- Strong background in mathematical modeling and computer simulations
- Ability to develop and deliver presentations
- Ability to work effectively with a multiple diverse community
- Strong commitment and perseverance to achieve assigned tasks and meet the deadlines

Required Academic Qualifications:

- Minimum CGPA of 3.5 in the Master degree (or its equivalent). Major should be in Computer Science, Computer engineering, Electrical Engineering, Mathematics or any closely related field. Thesis option in the Master is preferred
- Minimum CGPA of 3.0 in the Bachelor degree (or its equivalent). Major should be in Computer Science, Computer engineering, Electrical Engineering, Mathematics or any closely related field
- Three recommendation letters from academic faculty or profession superiors

For more information, please contact:

Prof Amal El Fallah Seghrouchni

Holder of the chair of excellence Sorbonne University - LIP6 – CNRS – SCAI and UM6P <http://www.digital-ia.org>
amal.elfallah@lip6.fr

or

Prof Raed Abuzitar

SCAI – Sorbonne University Abu Dhabi
raed.zitar@sorbonne.ae
+971 (0)526512404

Interested applicants should apply on the website

ONLY SHORTLISTED APPLICANTS WILL BE CONTACTED