Call for expression of interest for one (1) Ph.D. student fellowship position "Generative Adversarial Networks and Graph Networks for the analysis of biosignals" at the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)

Position: One (1) position for the HORIZON project TITAN
Project: “TITAN – Frugal Artificial Intelligence and Application in Astrophysics” (Grant Agreement number: 101086741) funded under HORIZON-WIDER-2022-TALENTS-01
Desired starting date: September 1st, 2024
Duration: 1 year with yearly extensions for the duration of the Ph.D.
Fellowship stipend: approximately 900 euros/month (net)
Location: Heraklion, Crete, Greece
Opening date: 21/6/2024
Closing date: 5/7/2024
Ref.: “TITAN-PhD-Biosignals”

Description. Investigating how important biological problems can be addressed through advanced signal and image processing techniques is a significant challenge in Data Science. The research in this project will span multivariate time series analysis, graph networks, and machine/deep learning, complemented by expertise in natural language processing and signal processing. We will be integrating these techniques cohesively to comprehensively understand complex biological systems. The primary application will lie in analyzing protein sequence data, focusing on classifying structural attributes. The research will be centered on de novo protein design using generative models, especially Generative Adversarial Networks (GANs). Leveraging the classification tools developed, we plan to create novel proteins with multiple desired properties, enhancing the scope and efficiency of her protein design efforts for diverse applications. The doctoral student will be located at the premises of FORTH and will be supervised by Panagiotis Tsakalides (FORTH).
Required qualifications:
- BSc and MSc in Mathematics, Computer Science, or a related field
- Good Knowledge of English
- Willingness and ability to work cooperatively within a team, to learn, and to adapt to the project
- Physical presence at FORTH, Heraklion, Crete for the duration of the position.

Desired qualifications:
- Experience with data analysis, statistical theory, and signal processing techniques

Application Submission
Interested candidates can submit their applications via http://www.ics.forth.gr/jobs/en/ using the link “Apply for the position” under the announcement. Applications must include:
- Detailed CV, including qualifications and interests in the above areas and proof thereof
- Scanned copies of academic titles; academic transcripts for undergraduate and postgraduate degrees
- Letters of recommendation, detailed presentation of prior work, studies and/or publications, demonstrating knowledge of desired skills.

Contact Information:
For information and questions about the advertised position, the activity of the group or the Institute, please contact Panagiotis Tsakalides at tsakalid@ics.forth.gr.

Selection procedure
Applications will be evaluated by a 3-member committee and they will be screened by the TITAN international scientific advisory board. In the case candidates are invited for an interview, they will either be invited to participate in person or via teleconference. Beyond scientific excellence, selection criteria will include gender and diversity aspects as well as complementary skills and fit of the candidate to the existing team.

Selection Announcement
The result of the selection will be announced on the website of ICS-FORTH. Candidates have the right to appeal the selection decision, by addressing their written objection to the ICS secretariat within five (5) days since the results announcement on the web. They also have the right to access (a) the files of the candidates as well as (b) the table of candidates’ scores (ranking of candidates results). All the above information related to the selection procedure will be available at the secretariat of ICS-FORTH in line with the Hellenic Data Protection Authority. Access to personal data of co-candidates shall be limited to personal data (and relevant data) and supporting documents which have been the basis of the evaluation of the candidates for the specific post(s). Prior to the announcement of the personal data and/or documents of the co-candidates to the applicant, FORTH will inform the data subjects in an appropriate way.

Disclaimer
FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data.

FORTH processes the personal data and relevant supporting documents that you have submitted to us. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one’s legitimate legal rights’ as defined in the Regulation EU/2016/679 and/or in national law.
We inform you that under the Regulation EU/2016/679 you have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws.

We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

You have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.