Research fellowship on “Combining Predictive Models for high dimensional systems” - Università Ca’ Foscari Venezia

(Italian law 30 December 2010, n.240, art. 22)

The present document in English is to be considered as a mere summary of the main provisions of the notice of competition which is available in Italian at the following (link) The text in Italian is the official text of the notice of competition for all legal intents and purposes and, in the event of non-conformity with the present document, it shall prevail.

Description
The European Centre for Living Technology at Università Ca’ Foscari Venezia invites applications for a fellowship in:

- **Title:** Combining Predictive Models for high dimensional systems
- **scientific disciplinary sector:** SECS-S/01 - 13D1 (Statistics)
- **scientific coordinator and tutor:** Dott.ssa Debora Slanzi
- **abstract:**

In several research fields there is increasing interest for developing accurate prediction procedures. Uncertainty about the most appropriate statistical model and an interest in predicting values in specific regions of the domain of definition of the problem motivate the adoption of a methodological approach that combines predictions from different models. This research will address the following questions: which predictive models; which criteria to evaluate and compare the prediction performance of different models; how to combine predictions from different models to achieve a better performance than that generated by single prediction models. This study will be developed in contexts of high dimensionality, where the number of predictors is much higher than the number of observations, i.e. n<<p. Specifically, we will consider Lasso multivariate regression models and regression models with predictors grouped in subsets achieved with forms of clustering procedures. The resulting approach will then be evaluated on experimental data.

The research may be carried out in English.

The fellowship is intended to provide the successful candidate with the opportunity to pursue his/her own research while benefiting from the range of expertise at Università Ca’ Foscari Venezia.

Who can apply
Prospective candidates are expected to hold a master’s degree in Statistics, Mathematics, Informatics or Economics, or related disciplines.

Ca’ Foscari encourages applications from researchers with positive evaluation in all the criteria in individual proposals such as Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar. Researchers having successfully completed Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar funded projects are warmly encouraged to apply.

**Duration of contract:** 12 months (approximately starting: February 2019).

**Stipend:** The research fellowship amounts to 27,471,15 Euros per year, including taxes and social charges.

**Deadline for submission of applications:** January 11, 2019, 12.00 noon.
How to apply:
Candidates should submit:
1. The application form;
2. A motivation letter (max 1 page) along with their CV in European format, duly dated and signed, both to enclosed as a one single.pdf file. (link)
3. A copy of a valid identity document (either Identity Card or Passport);
4. (If available) Evaluation Summary Reports of Marie Skłodowska Curie Actions - Individual Fellowships/ ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) individual proposals having passed all the evaluation thresholds;
5. (If available) Details of Marie Skłodowska Curie Actions - Individual Fellowships, ERC Starting Grants, FIRB (Italian Fund for basic research investments)/ SIR Scientific Young Independence Research funded projects;
6. All documents, qualifications and publications relevant for the selection procedure (please, see the notice link).
All the schemes of the quoted documentation are available on the website (link).

How to submit your application
Applications should be submitted by the online procedure, available on the notice webpage (link)

Or submit here:
https://static.unive.it/domandeconcorso-en/accesso/eclt18122018

The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of his/her application.
The candidate if necessary could access the procedures for updating any data and materials by the link provided by the e-mail, in any case any updates must be made no later than the deadline January 11, 2019, 12.00 noon.
Please note that the University can be contacted for any support needs by the candidate until 24 hours prior to the deadline.
Please note that in case of a high number of applications and / or weight of the materials loaded by the candidates the system might become slower, Therefore it is suggested not to start the process close to the deadline.

NB: the University does not take on responsibility for wrong or late communication of addresses, nor for any communication problem not depending on the University.

Evaluation
Up to 100 points, specifically:
For curriculum vitae, qualifications and publications, from 0 to 60;
For interview, from 0 to 40.

Selection procedure
Short-listed candidates will be invited for interview on January 17, 2019 at 11:00 a.m.

The interview will be on January 17, 2019 at 11:00 a.m. in the European Centre for Living Technology, San Marco 2940, 30124 Venice.

The short-list of the candidates admitted to the interview, or any postponement, will be published on the University’s webpage on January 14, 2019 (link).
Candidates living farther than 200 Kms from Venice may ask to hold a telematic
interview.

Information and contacts
Candidates may find further details about the application process and the research project in the official call published on the following [link](#).

For further information please contact

ECLT Secretariat at Ph. +390412347549, email: eclt@unive.it.

*Please note that our offices will be closed from December 22, 2018 until January 6, 2019.*

Venice, December 18, 2018