

Research fellowship on: Behaviour recommendation system for public and private destinations, PNRR iNEST Project, Interconnected North-East Innovation Ecosystem - Implementing Entity: University of Padua, - CUP: H43C22000540006

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 "Centro temporaneo Progetto Ecosistema dell'Innovazione" at Università Ca' Foscari Venezia, in charge of the administrative management of the above mentioned project, invites applications for a fellowship in:

Title: Behaviour recommendation system for public and private destinations

SSD or Research sector: ING-INF/05

Scientific coordinator or supervisor: Prof. Andrea Albarelli

Duration: 24 months

Abstract:

The research project concerns the promotion of tourism from the point of view of the recommendation of services based on the analysis of tourist behaviors and habits. The key point of the recommendation systems (DRSs) concerns the identification of the points of interest (POI) that best suit personal experiences by identifying, on the one hand, the destinations to reach and, on the other hand, a series of functions such as transport, structures and more that can make the experience completely immersive and simplified, but at the same time sustainable and accessible to all. If from a purely theoretical point of view, a tourist destination becomes "interesting", and therefore consequently to be suggested, based solely on the number of visits made by users, from a point of view that also takes into consideration the practical aspects it becomes necessary to introduce an advanced and personalized filter that presents each individual with a pre-selection of the contents to be displayed, thus simplifying the choice of destinations and drastically reducing booking and organization times. In fact, each individual has a decision-making "style" that guides him during his research process. The combination of macroscopic patterns of use of the services and the study of individual user behavior make it possible to introduce adaptive recommendation systems capable of improving decision-making processes. At the same time, the presentation of information and the persuasive communication of traveler paths aims to be continuously updated so as to cohe researcher is expected to produce the following deliverables:

- a literature review on how is achieved the topic of recommendation systems (months 1 to 6)
 - a research paper outlining the state of art of adaptive recommendation systems applied to tourism (months 6 to 12)
 - a report outlining the methodology and resources needed to produce smart solution for DRSs exploiting machine learning/artificial intelligence techniques (months 12 to 18)
 - a technical report based on the results of the implemented recommended systems (months 18 to 24)
- The activities of the researcher will be monitored regularly. Informal monitoring will be conducted by the supervisor during the research activity period and by the project leader through the verification of the regular attendance to and reporting during project meetings.
institute an indispensable tool for the visitor experience.

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 Computer Science or equivalent title obtained abroad and a professional scientific curriculum suitable for carrying out research activities.

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.

The following are considered preferential qualifications

- the PhD;
- the completion of attendance at a doctorate course pending the award of the qualification;
- specialization diplomas and certificates of attendance at postgraduate specialization courses, obtained both in Italy and abroad; the performance of documented research activities carried out with public and private entities both in Italy and abroad;
- Competences and experiences in the domain of recommendation systems.
- Knowledge about applied machine learning techniques.
- Academic and/or professional experiences with tourism projects.

Duration of contract: 24 months (approximately starting in February 2023)

Stipend: The research fellowship amounts to 21.401,93 Euros per year, gross percipient net of charges to be borne by the institution.

Deadline for submission of applications: January 09, 2023, 12.00 noon CET.

How to apply:

Candidates must submit:

1. The application form
2. A motivation letter (max 1 page) along with their CV in European format, duly dated and signed, both 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. A declaration of availability to hold the interview online (template available at this [Link](#)), which is to be emailed to: inest_pnrr@unive.it
7. Any other documents, qualifications and publications deemed relevant for the selection procedure (See the notice at this [link](#)).

Templates for the above mentioned documentation are available on the University's website ([link](#)).

How to submit your application

Applications must be submitted online, exclusively through the procedure that can be entered at the following link:

<https://apps.unive.it/domandeconcorso-en/accesso/inest09012023sistem>

After submitting the application, the candidate will receive a submission number and an e-mail acknowledging receipt of his/her application.

The candidate can, if necessary, access the procedures and update uploaded data and materials via the link provided by the e-mail. Updates are only accepted before the deadline of **January 09, 2023, 12.00 noon CET**. Please note that the candidate can contact the University for any support needs until 24 hours prior to the deadline.

In case of a high number of applications and / or weight of the materials uploaded by the candidates the system might become slower, therefore it is suggested not to start the application 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 qualifications and publications, from 0 up to 60 points (42 points is the minimum score for admission to the interview)

For the interview, from 0 up to 40 points (28 point is the minimum score for passing the interview)

Selection procedure

Interviews will take place on January 19, 2023, at 10.00 am CET.

The list of candidates admitted to the interview, the timetable, the venue of the interview, together with notice of any postponements, or changes in the time of the interview, will be announced on **January 12th, 2023**, by means of a notice that will be published at the following [link](#). **It is the candidate's responsibility to check the admission results and, if admitted, to show up at the required date and time.**

The interview may ascertain knowledge of the following topic:

- Tourism and cultural policies
- Destination Recommended Systems
- Machine learning techniques

Information and contacts

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

For further information please contact CESA, email: inest_pnrr@unive.it (please note that from 27/12/2022 to 02/01/2023 included, the Offices will be closed for Christmas).