4-year PhD Position

Topic: Biometrics based on Human-Machine Interaction

Biometric Recognition Group – ATVS, Escuela Politecnica Superior, Universidad Autonoma de Madrid, Spain
http://atvs.ii.uam.es

The Biometric Recognition Group - ATVS seeks a qualified candidate for a PhD student position (Spanish Ministerio de Economía y Competitividad, FPI-MINECO contract) in the field of behavioral biometric recognition including web-biometrics and human-technology interactions. The main aim of this PhD is to improve security and trustworthiness of web-services through user authentication based on the human-machine interaction and its cognitive fingerprint (in form of behavioral biometrics). The research includes new continuous authentication schemes based on keystroke dynamics, mouse movement, and other user-centric recognition technologies specifically developed for web scenarios and smartphone interaction.

We offer a 4-year contract (expected start date is third trimester 2016) in our laboratory facilities at Universidad Autonoma de Madrid (Spain). The extent of this position is a maximum of 38 hours per week according to the Spanish Government PhD position rules. The gross salary of a PhD student, in accordance with the agreement for Spanish official PhD contracts is 16,422 €/year, and possible bonus (up to 6,000 €/year) depending of the candidate achievements. Additionally, the ATVS provides excellent opportunities for professional and personal development, research stays at the most competitive international research labs, participation in top international conferences.

About the ATVS Biometric Recognition Group

The group is world recognized in biometric research (e.g. organizers of the IAPR Intl. Conf. on Biometrics celebrated in Madrid, ICB 2013), actively collaborates with governments and industry including very successful technology transfers (e.g. Morpho, Telefonica, Spanish Ministry of Defense, or Cecabank), and regularly participates in large EU projects (e.g., BBfor2, TABULA RASA, or BEAT). Some of our past PhD students are now full time employees in research positions in Google (New York), Facebook (London), Microsoft (Redmond), or the European Commission. The group has been recognized with several research distinctions in the last 10 years such as 3 PhD awards from the European Association on Biometrics to former PhD students, and other prestigious awards to his permanent researchers such as a Medal to Young Researchers from the Spanish Royal Academy of Engineering and the Miquel Catalan Research Award from Comunidad de Madrid in 2015.

Candidate Requirements

The applicants must have a MS degree in Mathematics, Computer Science, or Electrical/Telecommunications Engineering, or equivalent (300 ECTS including the BS degree). Contact us for further details.

Applicants should have strong background in statistics, linear algebra, signal processing, C++ programming, Matlab and/or Python scripting languages, and good command of written/spoken English. Knowledge in machine learning and pattern recognition is an asset.

How to apply

Candidates will send an email (subject "PhD Position: CogniMetrics") with: 1) Letter of intent that describes your academic and career goals as well as research interests; 2) Curriculum Vitae; and 3) Academic Record. The candidates should be e-mailed to: Dr. Julian Fierrez (julian.fierrez@uam.es) and Dr. Aythami Morales (aythami.morales@uam.es) before May 15, 2016.