

DOCTORAL PROGRAMME

IN

SMART COMPUTING

Coordinator prof. Paolo Frasconi















Pegaso Scholarships are funded with resources of the POR FSE TOSCANA 2014/2020 in the frame of the Tuscany Region Project "Giovanisì" (www.giovanisi.it) for the autonomy of young people

TECHNOLOGICAL AREA	ny kegion Project. Giovanisi (www.giovanisi.it) for the datonomy of young people		
ADMINISTRATIVE OFFICE	Department of Information Engineering		
REGIONE TOSCANA PEGASO PROJECT 2019	University of Florence University of Pisa University of Siena		
CURRICULA	NO		
	POSITIONS AVAILABLE: 12 Positions with scholarship: 11 Positions without Scholarship: 1* * standard ranking only		
RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 8	 5 – University Florence 3 – Regione Toscana Pegaso Scholarships 2019 		
RANKING LISTS FOR POSITIONS WITH SPECIFIC RESEARCH TOPICS SCHOLARSHIPS AVAILABLE: 3	 3 – Regione Toscana Pegaso Scholarships 2019** 1. "Machine Learning and Explainable AI" 2. "Smart Wearable Systems for Personalized Healthcare" 3. "Quantitative Analysis and Software Architectures for Manufacturing Districts" ** A period of training/research in an enterprise, a public research institution or other public institution (not a university) of at least 3 months is mandatorily required. 		
STUDY/RESEARCH PERIOD ABROAD	YES - for Pegaso Scholarships 2019 – standar position only		
MANDATORY PERIOD REQUIRED	6 months for Regione Toscana Pegaso Scholarships 2019 - standard positions		
DOCUMENTS REQUIRED FOR THE ADMISSION (under penalty of exclusion)	 Copy of the Identification Document Replacement Declaration Form self-declaration for: Italian Degree required for the access transcript of records with marks (for those candidates whose degrees will be awarded within the 31st October 2019) acknowledgment of compliance for any other qualification documents enclosed with the application Foreign Degree required for the access (those candidates whose degrees will be		

	awarded within the 31 st October 2019 shall enclose the list of the examinations completed with marks)		
DOCUMENTS REQUIRED FOR THE EVALUATION	 MANDATORY Curriculum vitae Transcript of records of M.Sc. degree Title of the M.Sc. thesis Abstract of the M.Sc. thesis Research project 		
	 OPTIONAL List of publications PDF copy or a chapter of the M.Sc. thesis (if available) 		
REFERENCE LETTERS	A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.		
RESEARCH PROJECT	The research proposal should be written in English and should be submitted as a PDF file. The length may not exceed 12,000 characters. The research proposal should describe a three years project having a high potential for a novel scientific contribution in any area related to smart computing. In the proposal, briefly summarize the state-of-the-art, identify one or more open problems, explain why solving these open problems is significant, and describe a research plan, possibly addressing the associated risk factors and strategies for dealing with them. The research proposal needs not to be directly related to one of the reserved		
	research topics (see below) for which you may want to apply. In facts, this proposal will not be even used to bound you to do research in any particular area, it just serves the purpose of assessing your technical writing skills, your ability to envision sensible long-term research goals, and your ability to plan and evaluate research activities.		
MODALITY OF EVALUATION	 Evaluation of curriculum vitae, research project, publications and other qualification documents Interview As detailed in the section below "Evaluation Marks"		
LANGUAGE FOR THE EXAMINATION	English		
SKYPE INTERVIEW	YES – possible for residents abroad only		
Note on applications for the "specific research topic scholarships": A subset of the available positions will be reserved to the specific restopics listed below. To be considered for one of these positions, please some or more of them during the application process. Since we strive to many of these positions as possible, by applying for one or more resepositions you may significantly increase your chances of being accepted in program. You may apply for as many reserved positions as you wish. During interview, there will be one additional test for each reserved positions you			

applied for. Passing the test is a necessary (but not sufficient) condition for accessing the corresponding reserved position. Failing one or more of these tests will not reduce your chances of being accepted for the remaining (nonreserved) positions. There are additional thematic positions (not reserved) that do not require a specific test as detailed in the section below "Thematics" Further Topics are listed at smartcomputing.unifi.it/procedures.html#positions minimum maximum parameter score score Curriculum vitae, publications, 27/120 40/120 qualification documents 27/120 Research proposal 40/120 **EVALUATION MARKS** Applicants who obtain a mark of at least 54/120 according to the minimum score for each parameter will be admitted to the interview Interview (including a discussion of the 26/120 40/120 research proposal) in English language Candidates with an overall score below 80/120 cannot be admitted to the program Artificial Intelligence **Computer Networking Computer Vision Computer Architectures Conversational Agents** Data Analysis and Social Network Data Analysis Fog/Edge computing in IoT **THEMATICS Embedded and Cyber-physical Systems Machine Learning Neuroinformatics** Pervasive Sensing & Computing Quantitative evaluation and verification of concurrent systems Security and Privacy in Smart Systems Software architectures and engineering methods

Further information available at the following web page: http://smartcomputing.unifi.it/

EXAMINATION SCHEDULE					
	DATE	TIME	PLACE		
INTERVIEW	9 th July 2019	09:30 a.m.	Department of Information Engineering Via Santa Marta, 3 – Florence Meeting Room		

The list of candidates admitted to the interview and the final ranking will be published online at the following web page: https://www.unifi.it/p11549.html