

università degli studi FIRENZE

DOCTORAL PROGRAMME

IN

SMART COMPUTING

Director prof. Stefano Berretti

XXXVIII cycle – academic year 2022/2023

TECHNOLOGICAL AREA			
ADMINISTRATIVE OFFICE	Department of Information Engineering		
PARTNER INSTITUTIONS	University of Florence University of Pisa University of Siena		
POSITIONS AVAILABLE: 5 Positions with scholarship: 4 Positions without Scholarship: 1			
SCHOLARSHIPS: 4	 2 - University of Florence 1 - University of Pisa 1 - University of Siena 		
STUDY/RESEARCH PERIODS ABROAD	1-3 months		
DOCUMENTS REQUIRED FOR THE ADMISSION (under penalty of exclusion)	 Copy of the Identification Document Self-declaration for qualifications obtained in Italy (laurea triennale, specialistica o magistrale o ciclo unico) with a list of all exams taken and their marks, title of the thesis and graduation mark (download the form <u>here</u>, make sure you fill in all the fields) Qualifications obtained abroad (Bachelor's and Master Degrees or combined cycle Degree) with a list of all exams taken and their marks, title of the thesis and graduation mark. The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2022 		
DOCUMENTS REQUIRED FOR THE EVALUATION	 MANDATORY Curriculum vitae Abstract of the M.Sc. thesis Research project OPTIONAL List of publications and any other qualification document 		

	• 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 will not be used to bound the research in any particular area; it just serves the purpose of assessing the candidate technical writing skills, the ability to envision sensible long-term research goals, and the ability to plan and evaluate research activities.			
FURTHER INFORMATION	Thematic of interest are listed in the section below "Topics for the research project and the interview". Additional thematic of interest are listed at: <u>smartcomputing.unifi.it/procedures.html#positions</u>			
INTERVIEW MODE	Remotely (Videocall) The interview can be conducted in English language			
		minimum	maximum	
	Parameter	score	score	
	Curriculum vitae, academic career, publications, qualification documents	27/120	40/120	
	Research proposal	27/120	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 research proposal) in English language	26/120	40/120	
	Eligibility is achieved with a minimum score of 80/120			
TOPICS FOR THE RESEARCH PROJECT AND THE INTERVIEW	 Artificial Intelligence Computer Networking Computer Vision Computer Architectures Conversational Agents Data Analysis and Social Network Data Analysis Fog/Edge computing in IoT 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	e at the following web page:

http://smartcomputing.unifi.it/

EXAMINATION SCHEDULE				
	DATE	TIME		
INTERVIEW	August 23 rd 2022	10:00 a.m.		

The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p12202.html