

TABLE 2 – PhD Programme in COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

DECRETO

THE PhD PROGRAMME		
Administrative Location	University of Udine - Department of Mathematics, Computer Science and Physics (DMIF) – via delle Scienze 206, 33100 Udine, Italy (+39 0432 558400).	
Associated Location	Fondazione Bruno Kessler – 77 via Santa Croce, 38122 Trento (TN), Italy	
Location for Training, teaching and research activity	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 and 14 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).	
Coordinator	ing. Alessandro Cimatti (cimatti@fbk.eu)	
Programme duration	3 years	
Research topics	 Acoustic scene analysis and Machine listening Algorithms Al in agrifood Automatic planning and scheduling Autonomous systems Blockchain and Digital ledger technologies Computational biology and Bioinformatics Computational intelligence and Optimization Computer vision Crowdsourcing and Human-in-the-loop AI Cyber-security Data science and Big data analytics Digital Humanities 3D digitalization with AI Distributed systems: models and applications Formal methods and Automatic verification Human-Computer interaction and Auditory-tactile interfaces Knowledge representation and Automatic reasoning Information retrieval Internet of things: platforms and technologies Logics in computer science Machine learning and Deep learning Medical informatics, Tele-medicine and e-Health Natural language processing Condition monitoring, predictive maintenance and diagnosis Social systems and Recommendation systems Software engineering Virtual reality and Serious games. 	
Research programmes	The research programs, if not already defined by funding organizations or specific funding lines (see "Available Positions and Examinations procedures", art. 3 p. 5 of the Call) are determined by the Teaching Board within the PhD programme Research topics.	
Programme website	https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d- programmes/area-physical-science-and-engineering/computer-science-and- artificial-intelligence/ph-d-programme/computer-science-and-artificial- intelligence?set_language=en https://dmif.uniud.it/en/teaching/phd-courses/iai/phd-course-in-computer-science- and-artificial-intelligence https://phd.fbk.eu/	

ADMISSION REQUIREMENTS		
Required degree	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM	
	509/1999 and Decree DM 270/04) or equivalent degree obtained abroad.	
	Foreign degrees and titles: refer to art. 4 and 5 of the Call.	
Knowledge of the following foreign	English	
language		

DOCUMENTS AND TITLES TO BE ATTACHED TO THE APPLICATION FOR ADMISSION		
Mandatory documents (Art. 6 of the Call) UNDER PENALITY OF EXCLUSION	 Certification issued by the University or, if the Candidate is a European Union citizen (refer to art. 6 paragraph 5 of the Call), self-certification of the academic title (already awarded or to be issued by October 31, 2024) needed for admission to the PhD programme; 	



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	 Curriculum vitae et studiorum, dated and signed, containing a complete and detailed description of all studies and working experiences (refer to the attached form to the Call); Copy of a valid identity document (citizens of countries not belonging to the European Union: copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry); Research project, dated and signed, referred to the research topics and to the 	
	(art. 3 p. 5 of the Call), with specific reference on the Teaching Board skills described in https://dmif.uniud.it/it/didattica/dottorato/iai/collegio-docenti	
	(approximately between 5,000 and 10,000 characters, in English, refer also to the downloadable template).	
Optional documents that will be evaluated if	1. Publications (max 3);	
presented (Art. 6 of the Call)	 Recommendation letters (max 2) written by university professors, scientific researchers or other experts in the specific research topics (art. 7 of the Call); 	
	 Master thesis ("Tesi di Laurea") or its abstract (approximately between 15,000 and 25,000 characters) in Italian or English associated to the degree/title 	
	providing access to the PhD programme. The abstract can be submitted also by Applicants who are not graduated on the expiration date of this Call.	
All documents must be submitted exclusively in PDF format, dated and signed by the candidate.		

SELECTION COMMITTEE		
Appointed Members	Alessandro Cimatti – director of research center – Bruno Kessler Foundation Dario Della Monica – associate professor – University of Udine Carlo Drioli – associate professor – University of Udine Andrea Brunello – researcher – University of Udine Vincenzo Riccio – researcher – University of Udine	
Alternate Members	Fabio Buttussi – associate professor – University of Udine Vincenzo Della Mea – associate professor – University of Udine Gabriele Puppis – associate professor – University of Udine Andrea Orlandini – researcher – ISTC-CNR Kevin Roitero – researcher – University of Udine Fabio Remondino – head of research unit – Bruno Kessler Foundation Andrea Micheli – head of research unit – Bruno Kessler Foundation	

ADMISSION

Competition procedures and test schedule Evaluation of titles and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills before the course program, the Selection Committee can attribute up to 100 points to each applicant: at most 30 points to the titles and at most 70 points to the oral examination. The applicant is admitted to the oral examination if he/she scores at least 18 points for the titles. The oral examination is passed by scoring at least 49 points. The applicant is eligible for the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in in the oral examination will be added to the points of the titles. Language that can be used for the exam Italian or English Evaluation of the titles Curriculum vitae et studiorum and master thesis (or its max.20 points abstract) Research project, scientific publications, and max.10 points recommendation letters **Oral examination** Written test about fundamental topics in computer science and artificial intelligence max.20 points The oral examination takes place in presence (art. 9 p. 4 of the Call). Interview about written test, titles, previous career and research project also aimed at understanding the Applicant's knowledge about fundamental topics in computer science and max.50 points artificial intelligence, as well as his or her full eligibility to receive, if preferred, a scholarship funded by external institutions. Reading and understanding a short scientific text in English