Curriculum Vitae *September 2020*	

Personal Information	
Name and Surname	**Paolo Nesi**
Citizenship	Italian
DOB	17-03-1959
Birth place	Firenze
National Insurance Number	NSEPLA59C17D612F
VAT	--
Place of residence	6, Via Romagnosi, I-50139, Firenze, Firenze, Italia
Place of work and address details	
Address	Paolo Nesi, DISIT Lab (Distributed Systems and Internet Technology Lab), DINFO (Department of Information Engineering), University of Florence, Via S. Marta n.3, 50139 Florence, Italy
Phone/Mobile	0039-055-4796523 / 0039-335-5668674
Fax	0039-055-4796363
E-mail	paolo.nesi@unifi.it
Websites:	http://www.disit.dinfo.unifi.it/nesi/ DISIT LAB http://www.disit.dinfo.unifi.it/ https://www.disit.org Snap4City: Https://www.snap4city.org Km4City: Https://www.km4city.org Sii-Mobility: http://www.sii-mobility.org RESOLUTE: http://www.resolute-eu.org REPLICATE: http://replicate-project.eu/ ECLAP: http://www.eclap.eu
Post graduate qualification	
Scientific branch of learning	ING-INF/05
Scientific area ATECO 2007	85.42
Key-words	Big data, data analytics, IOT, Cloud computing, environmental data, Distributed Systems, mobile systems, software engineering, semantic computing, knowledge management
Professional background	
Beginning date /end date - currently	Since 1992 until today
Total months	28 years
Type of contract	Full time *sine die* contract
Position	• Since 2000 **Full Professor, Department of Information Engineering, DINFO**. • Responsible and Chair of the DISIT LAB at DINFO, UNIFI (this lab is listed in the Tuscany Region catalogue of the most important university research centres. CIA (University Integrated Ledger System) member on behalf of DINFO since 2016. • 1998-2000 Associate Professor, ING-INF/05. • 1992-1998 University Researcher, ING-INF/05.

Main duties and functions	• As to the **project list,** see http://www.disit.org/6705 ;
	• Since 2019: **Editorial Board Member of the journal Sensors MDPI**, Impact Factor 3.031;
	• Since 2020: contact person for Univ. Florence, within the project **MOBIMART Interreg** of the European Commission, subcontract with Pisa: big data platform Snap4Pisa.
	• Since 2020: **contact person for Univ. Florence within the project Herit-Data Interreg** of the European Commission: https://herit-data.interreg-med.eu/ impact and monitoring on tourism by means of big data.
	• Since 2019: member of the **scientific committee of the Data Science Centre** at the University of Florence: https://datascience.unifi.it/
	• Since 2019: **contact person for Univ. Florence within the project Italmatic** designed to study IOT solutions for Industry 4.0.
	• Since 2019: Scientific contact point for the University of Florence Spin-off Snap4 srl: http://www.snap4.eu/
	• In 2019: **Winner of the PCP Select4Cities** with the Snap4City solution. https://www.snap4city.org/drupal/node/558
	• Since 2019: included in **EOSC (European Open Science Cloud)** with Snap4city solution: https://marketplace.eosc-portal.eu/services/snap4city
	• Since 2018: **contact person for Univ. Florence within the project TRAFAIR CEF EC** meant to develop predictive models in big data and environmental framework, more specifically related to NOX polluting particulate emissions due to means of transport, within Florence, Livorno, Pisa, Saragoza, Santiago di Compostela, Modena. http://www.disit.org/7172
	• Since 2018: **contact person for Univ. Florence within the project Laid SmartBed** designed to study the sleeping disorders via Big Data, partners: PerDormire, CNR, etc., Tuscany region project.
	• Since 2018: **contact person for Univ. Florence within the project Green Impact SODA**, monitoring on environmental variables related to chemical plants, maintenance models and production control, predictive models. Tuscany region project with ALTAIR.
	• Since 2018: **contact person for Univ. Florence within the project 5G** meant to study smart city solutions for industry and public health in terms of environmental variables by means of 5G technology. Partners: 3G-Wind, Estra, Open Fiber, etc. National project.
	• 2017: **contact person for Univ. Florence, in the framework of Industria 4.0** Tuscany Region, as to the areas of: Real time Analytics, and Cloud computing.
	• 2014-2020: **general scientific coordinator National SmartCity project, Sii-Mobility** on mobility and transportation (http://www.sii-mobility.org), algorithms for traffic flow reconstruction, big data, data analytic, knowledge management, decision taking support, sensor network, IOT, developing KM4City; with SWARCO, ECM, etc.
	• 2017-2021: **REPLICATE SCC1 H2020 project**, smart city flagship, in charge of the development of both the data aggregation system and control room related to the smart city and data analytics based on the platform named Km4City. http://replicate-project.eu/, with TIM, ENEL, Thales, etc.
	• 2017-2019: **scientific coordinator and lead member of the Tender Select4City, Snap4City**, IOT/IOE by the European Commission for the town councils of Helsinki, Copenhagen, Antwerp, with UNIMI and Snap4 srl. http://www.select4cities.eu/
	• 2016-2019: **scientific coordinator of the project SmartCity Social Innovation Coll@bora** MIUR on collaborative systems providing support to hospitals, assistance providing institutions and care givers for people having disabilities ;
	• 2016-2020: **Member of the CIA (University Integrated Ledger System), Guidance and Self-Assessment Committee** of DINFO, Univ. of Florence.
	• 2017-2020: **WEEE Life EC,** project on the collection systems of Waste Electrical and Electronic Equipment (WEEE), in charge of the APP development and the intelligence system behind that. Partners: Tuscany Region, Chamber of Commerce, etc.
	• Since 2016: Member of **the Scientific Committee of Città Metropolitana Firenze;**
	• Since 2018: Functional manager and person in charge **on behalf of UNIFI for the Project "Simple Justice"**, artificial intelligence to predict inclination to legal arbitration.
	• 2015-2018: **general scientific coordinator RESOLUTE H2020** http://www.resolute-eu.org **,** on the resilience applied to mobility and transportation systems in urban areas; with THALES, SWARCO; etc
	• Since 2018: Functional manager and person in charge of DINFO participation in **regional project MOSAIC** with ALSTOM and other companies: Tages, Engineering/Municipia, CNIT.
	• Since 2017: Functional manager and person in charge of DINFO participation in **regional projects** such as JOIN (Ambrogio), FEEDBACK (VAR), and **third party research contracts with:** NOVICROM, ALTAIR, PCSYSTEM, ECRF, etc. in the framework of Industry 4.0;

- Since January 2011-2020: **Member of the Scientific Commitee of CSAVRI** (Centre of University Services related to the Research Enhancement and Management of the University Incubator), Università degli Studi di Firenze http://www.unifi.it/CMpro-v-p-5965.html;
- Since 2015 promoter and founding designer of the **master course named MABIDA on Big Data Analytics and Business Intelligence** of the Università degli Studi di Firenze.
- 2018**: Co-program Chair** in the Conference **IEEE Smart City and Innovation**, Guangzhou, China.
- 2017**: Co-program Chair** in the Conference **IEEE Smart City and Innovation**, San Francisco, CA, USA.
- 2017: **Keynote** at **International Summit on Smart World and Smart Cities**, In Conjunction With 2017 IEEE Smart World Congress, 2017, San Francisco, USA;
- **2017: keynote at ENBIS 2017,**
- Since 2013: **coordinator and contact point for the development of Km4City**, a smart city model and open data aggregator, LOD of Florence town council, province and region, http://www.km4city.org .
- **Member of many program committees for international conferences** such as: IEEE ICECCS, DMS, DATA, ICSOFT, MobiWIS, SEW, Chitaly, IEEE ICSM, ACM MM, IEEE SC2, etc.;
- **Member of PHD research course, DIST Committee**, University of Florence**.**

Previous Main duties and functions	- Since 2017 and since 2012: **member in the list of would-be commissioners to be chosen by drawing lot** (ANVUR National Scientific Qualifying Examination) within the National Boards of Examiners related to University Teaching Examinations as to University Professors first and second wage band, area ING-INF/05; and for the evaluation of University Full Professors according to national high bibliometric criteria. 2012-2017**: Scientific contact point for EffectiveKnowledge, Spinoff** of the University of Florence. http://www.effective-knowledge.com - Since 2014, **contact point and in charge of the DISIT Lab as to the IOT activities**, relationships with companies and tests on IOT cards: http://www.disit.org/5669 : FLUCTUS, UDOO, INTEL, as well as Raspberry, SigFOX, Dragino, etc. - since 2000: **he is responsible of the DISIT Lab: Distributed systems and Internet technologies**, Università degli Studi di Firenze; http://www.disit.dinfo.unifi.it , http://www.disit.org - since 2010: **editorial board member** of International Journal of Software Engineering and Knowledge Engineering (IJSEKE), World Scientific, ISSN: 0218-1940; 2014-2016: **TESYSRAIL** national project related to a **Technological cluster on systems and means of transport for the surface and sea transit:** educational aspects on railway signalling, contact point on behalf of the Department of Information Engineering - DINFO, Università degli Studi di Firenze. Contribution as project partner. 2012-2015: **scientific and technical coordinator of the ICARO Project**: technologies and research activities related to adaptive and dynamic cloud systems, smart cloud, on behalf of DINFO, PAR FAS regional project; 2012-2015: **scientific and technical coordinator of the RAISSS Project:** railways signalling systems and interlocking problems, on behalf of DINFO, PAR FAS regional project. - since 2011: **OSIM coordinator**, Open Space Innovative Mind, http://openmind.disit.org focused on knowledge modelling in a scientific context; 2015, 2016: Steering Committee **Co-chair**: international conference. **DMS 2015, DMS2016**, Distributed Multimedia Systems, Knowledge Systems Institute, Vancouver, CA; and Salerno, Italy. 2014 **member of the steering committee, and Italian National Coordinator:** ICT Proposers' Day 2014, organized in Florence by the European Commission, Ministry MIUR, Tuscany Region, Florence Town Council and Florence University, event of the Italian Six-month period of Presidency of the E.C., 3400 registrations. 2013-2014 **Co-chair**: international conference **DMS 2013, DMS2014**, Distributed Multimedia Systems, Knowledge Systems Institute, UK 2013, in Pittsburg, USA 2014. 2011-2014: **scientific responsible and contact point on behalf of UNIFI - DINFO of TRACE-IT** a R&D project on the development of the railway signaling for high speed systems, automatic driven systems, PAR FAS regional project; 2012-2014: **scientific responsible and contact point for SACVAR project**: systems of knowledge management, data mining for the analysis of both expertise and knowledge, knowledge accelerators, project supported by the Tuscany Region. 2012-2015: member of the **Scientific Council within ICON foundation**: International Center of Computational Neurophotonics, http://www.iconfoundation.net/ ; 2011-2014: **deputed managing director on behalf of Università degli Studi di Firenze within the Innovation Pole of ICT-Robotics** Politer (coordination committee and scientific commission), scientific contact point. 2011-2013: **deputed managing director on behalf of Università degli Studi di Firenze within** the Guidance Committee of the **ICT-Robotics Tuscany District**; www.distrettoict-robotica.it ; 2010-2013: **General Scientific coordinator** of the International project ECLAP CIP PsP funded by the European Commission, mainly focused on content distribution for content providers, cultural institutions and educational centres, e-learning, multimedia, mobile, http://www.eclap.eu; 2013 **General Chair**: International Conference ECLAP 2013, ICT for performing arts. Publishing Company Springer Verlag, Porto, April 2013 2012: **keynote speaker** within the 8th International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS, http://www.sitis-conf.org/ ; 2012: **member in the list of would-be commissioners to be chosen by drawing lot** (ANVUR National Scientific Qualifying Examination) within the National Boards of Examiners related

to University Teaching Examinations as to University Professors first and second wage band, area ING-INF/05, according to national high bibliometric criteria;

- Since Feb 2011: **University contact point for the Apre Toscana single information point** (http://www.apretoscana.org), CSAVRI (Centre of University Services related to the Research Enhancement and Management of the University Incubator), Università degli Studi di Firenze;
- 2007-2012: **vice-director and then Director of the Department of Systems and Informatics,** previous name of currently DINFO, Università degli Studi di Firenze.
- Breaking new grounds. http://www.disit.dsi.unifi.it/projects.html
- 2011: received a special **acknowledgement thanks to 4 types of innovative research** carried out by the DISIT LAB. The prize was awarded by the Agency for the spread out of innovation technologies within the Presidency of the Council of Ministers, http://www.aginnovazione.gov.it/ , in the framework of the innovation selected within the programme "Italy of Innovators". http://www.disit.dsi.unifi.it/projects.html
- 2008-2010: **member of the Certifying Committee Italcertifer** (Italian Institute of Railway Research and Certification), Rome, Università degli Studi di Firenze.
- 2007-2012: member of the **Scientific Committee of the Faculty of Engineering,** Univ. of Florence.
- 2005-2007: **chair of the ad-hoc group and co-editor of the MPEG SMR ISO standard**, part 23 of MPEG-4 http://www.interactivemusicnetwork.org/mpeg-ahg/ . Contributions to MPEG-4, MPEG-21 and M3W di ISO.
- 2010-2011: **Technical contact point of the Palamede project** (http://palamede.fupress.com) designed to realize an Open Journal multi press platform for Florence University Press, with the financial support of the Digital Renaissance Foundation.
- 2005-2008: **Technical and Scientific coordinator of the European project IMAESTRO** IST FP5 STREP funded by the European Commission and based on technology enhanced learning http://www.i-maestro.org/

	2010-2016: member of the **Scientific Committee of the joint laboratory business company and university** INEA LAB, "Laboratorio per l'Ingegneria Elettroacustica"; 2005-2016: **editorial board member** of International Journal of Real Time Image Processing (JRTIP), Springer Verlag; 2011: **general chair** of the Internation Conference DMS 2011, Distributed Multimedia Systems, del SEKE (software engineering and knowledge engineering, USA), semantic systems, distributed systems, semantic computing. http://www.ksi.edu/seke/dms11.html ; 2010: **program chair of International Conference DMS 2010**, Distributed Multimedia Systems, KSI, USA; 2009: **keynote Speaker** for the 2nd International Symposium on Intelligent Interactive Multimedia Systems and Services, IIMSS2009, hosted by University of Milan, Mogliano Veneto, 16-17 July 2009; - since 2007: **technical coordinator of the project and service Mobile Medicine**: http://mobmed.axmedis.org 2008: **organizing committee member** of the international Workshop on Digital preservation Weaving Factory for Analogue Audio Collection, Organized by Fondazione Rinascimento Digitale and University of Florence, December 2008, Florence, Italy. Co-located with AXMEDIS 2008 conference. 2004-2008: **Coordinator of the European project AXMEDIS** IST IP, http://www.axmedis.org in the area of semantic web, intelligent contents and automation in managing both contents and digital rights, automated management and digital content mining. 2005-2007: **chair of the ad-hoc group and co-editor of the Standard MPEG SMR ISO**, part 23 of MPEG-4 http://www.interactivemusicnetwork.org/mpeg-ahg/ . 2003: **Chair of the State Exam Committee** to get the qualification as engineer, Florence. - Same period: **International scientific contact point** in many multimillion euro R&D projects funded by the European Commission such as: ECLAP, AXMEDIS, WEDELMUSIC STREP IST EC, MUSICNETWORK NOE ICT EC, MOODS Takeup, etc. - Same period: **Scientific project manager** for the following European projects: VARIAZIONI eContentPlus, IMAESTRO STREP ICT FP5, MUPAAC takeup, IMEASY, VISICON takeup, OPTAMS e ICCOC takeup, as well as for the national and regional projects TRACE-IT, QUACK, etc. - Same period: **general chair** at many different international conferences: ECLAP 2012, DMS2011, IEEE ICSM, IEEE ICECCS, CSMR, AXMEDIS, WEDELMUSIC, etc. **Program chair** at IEEE SCI, DMS, etc. - Same period: **member of program committee** at many different international conferences: IEEE ICSE, IEEE METRICS, IEEE SCI, IEEE ICSM, IEEE ICECCS, ICSOFT, CSRM, PROFES, ICSOFT, DMS, ChItaly, WES, FEDS, SCS, etc. - Same period: contributions to standard such as: MPEG M3W, MPEG-4 and MPEG-21. - Same period: **Co-chair of MPEG-4 part 23 regarding symbolic music representation** - Same period: **responsible** of the HPCN TTN Centre on behalf of the Department of Systems and Informatics, Università degli Studi di Firenze. - In the past: senior expert advisor and trainer within the CQWARE Centre designed for quality software, CESVIT, Florence. 2000: Vice Chair of IEEE Technical Committee on Complex Computer Systems.
Employer	Università degli Studi di Firenze
Employer legal address	Piazza S. Marco, 4, Firenze, 50100
ATECO 2007 SECTOR	85.42
Educational qualification	
Beginning date /end date - currently, Type, Academic qualification, Organization	1990-1993: Research Doctorate, PhD, Università degli Studi di Padova (Internship abroad at IBM Almaden Research Center, CA, USA).
Main topics /skills and professional expertise	Big Data, Data Analytics, IOT, Cloud. Software Engineering, management of complex systems, artificial intelligence.

Beginning date /end date - currently, Type, Academic qualification, Organization	1980-1987: Electronic Engineering Previous Educational System, Electronics Engineer, Università degli Studi di Firenze
Main topics /skills and professional expertise	Electronic Engineering, Electronic computers, hardware and software design.

Languages	
Mother tongue	Italian
Other languages	English
Reading skills	Excellent
Writing skills	Excellent
Listening skills	Excellent
Oral production skills	Excellent

Scientific Activities	Last update - June 2020

International Publications on ISI journal - Institute for Scientific Information (June 2020)

Article types	N° total
Conference papers	131
Reviewed articles	70
Editorial Comments	12
Book Chapters	5
Complete H index	21

Number Articles of any kind	h-index total	Total N. of quotations	h-index 5 years	Quotations 5 years
220 (scopus)	21	1761	10	700
>450 (google schoolar)	29	4000	18	1300

Reference values related to 09/H1 field of work, alias ING-INF/05 on SCOPUS (2020)		
# ARTICLES number of articles published on peer reviewed journals along 10 years	# QUOTATIONS number of quotations within the scientific production along 10 years	median of the INDICE H indicator along 10 years
29	1020	12

Values for Paolo Nesi on SCOPUS (2020)			
# ARTICLES in total on SCOPUS	# ARTICLES number of articles published on peer reviewed journals	# QUOTATIONS number of quotations within the overall scientific production	median of the INDICE H
220	70	1761	21

Monographic studies and current affairs press (last update 2013) (to be updated up to 2019)

Publication	TOT	IT	EN	Registered	Not registered
Books (since 2004)	10		10	10	
Chapters (since 2004)	12		12	12	
Scientific articles (since 2004)	80		80	75	5
TOT	102		102	97	5

Patents and scientific prizes (last update 2013) (to be updated up to 2019)	N° of registered patents	N° of National Scientific prizes	N° of International Scientific prizes	N° of international journals where his work of Editor is carried out	N° of international journals where his work of Referee is carried out	N° of participation in Scientific Committees	N° of participation in Technical Scientific Committees
		5	5	3	10	26 (last 5 years)	6 (last 5 years)
						>100 in total	>50 in total

Conference activities (last update 2019)	Conferences	N° of "Invited lectures"	N° of "Chairmanship"
	National	10	5
	International	9	22
	TOT	19	27

Publications: http://www.disit.dinfo.unifi.it/publications.html
Google Scolar: http://scholar.google.it/citations?hl=en&user=c2S3Ni0AAAAJ
Paolo Nesi slide su Slide Share

Tasks related to research project evaluation
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- Advisory board member Smart City STEEP project, EC 2013-2015. http://www.smartsteep.eu/ ;
- Advisory board member HPC ISTI CNR Pisa 2014-2016, http://hpc.isti.cnr.it/?page_id=1217 ;
- Examiner on behalf of the European Commission in some calls of proposals related to ICT e FET;
- Peer reviewer International project ICT of the European Commission: OPENDRAMA ICT;
- Coordinator Call for Proposal for research projects of the European Commission in the AXMEDIS ICT project, 1 Meuro di funding;
- Research project examiner of international legal entities: Research Council Israel, Netherlands Organization for Scientific Research (NWO);
- Research project examiner on behalf of MIUR;
- Research project examiner on behalf of different Italian Universities within different kinds of research projects: Padova, Napoli;
- Research project examiner on behalf of Start Cup Veneto, start-up projects;
- Research project examiner on behalf of University Incubator IUF as to start-up projects, (2011-2015);
- Member of the Doctorate Commission on behalf of : UNIFI; EPFL Losanna, CH; Fraunhofer IGD, Germany; UPC Spain; Queen Mary Univ., UK.

Reviews of International journals and books
- Journal: IEEE TSE, ACM TOCHI, IJHCS, IJSEKE, IRTIP, IEEE SMC, ACM TOSEM, JSS, JPS, PATREC, IEEE TRA, JSM, JLC, JSPE, HICSS, IEEE TSC, JMTAP, STVR, RTI, PRL, JVLC,
- LN Springer, Book Taylor and Francis, IEEE Book, CRC Book.
- Board di JSEKE, JRTIP, Sensors MDPI

Information on research projects — **Some multi partner project, both national and international, which have been coordinated by Paolo Nesi**

Name of the project — **Snap4City: Scalable Smart Analytic Application Builder for Sentient Cities**

Type — H2020 by the E.C., Research and Innovation project, RIA

Project abstract	Smart Cities need to set up a flexible Living Lab to cope with the city evolution in terms of services and city users' needs and sustainability. Snap4City solution (https://www.snap4city.org) provides a flexible method and solution to quickly create a large range of smart city applications exploiting heterogeneous data and enabling services for stakeholders by IOT/IOE, data analytics and big data technologies. Snap4City has provided a number of technologies for monitoring environmental data such as: SO2, NO, NO2, PM10, PM2.5, etc. providing instruments for dynamic routing to avoid critical conditions, alerting population, mobile Apps called Helsinki in a Snap, and Antwerp in a Snap. Snap4City applications may exploit multiple paradigms as data driven, stream and batch processing, putting co-creation tools in the hands of: (i) Smart Living Lab users and developers a plethora of solutions to develop applications without vendor lock-in nor technology lock-in, (ii) final users customizable / flexible mobile Apps and tools, (iii) city operators and decision makers specialized / sophisticated city dashboards and IOT/IOE applications for city status monitoring, control and decision support. Snap4City satisfies all the expected requirements of Select4Cities challenge PCP and much more, and it is 100% open source, scalable, robust, respects user needs and privacy; provides MicroServices and easily replaceable tools; compliant with GDPR; provides a set of tools for knowledge and living lab management, and it is compliant with more than 60 protocols including end-to-end encrypted communication. Snap4City is an official platform of FiWare, an official library of JS Foundation Node-RED, registered on E015, present on EOSC marketplace, and BeeSmartCity MarketPlace, etc.
Project budget	520.000 meuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab
Partnership	University of Florence + two other partners: UNIMI and Snap4 SRL
Name of the project	**RESOLUTE Resilience Management Guidelines and Operazionalization Applied to Urban Transport Environment**
Type	H2020 of the European Commission, RIA research and innovation project
Project Abstract (max 100 characters)	Increasing Europe's resilience to crises and disasters is a topic of highest political concern in the EU and its Member States and Associated Countries. Regarding the specific case of transport systems, it can be said that those have developed a prominent safety and business critical nature, in view of which current management practices have shown evidence of important limitations in terms of resilience management. Furthermore, enhancing resilience in transport systems is considered imperative for two main reasons: such systems provide critical support to every socio-economic activity and are currently themselves one of the most important economic sectors and secondly, the paths that convey people, goods and information, are the same through which risks are propagated. RESOLUTE is answering those needs, by proposing to conduct a systematic review and assessment of the state of the art of the resilience assessment and management concepts, as a basis for the deployment of an European Resilience Management Guide (ERMG), taking into account that resilience is not about the performance of individual system elements but rather the emerging behaviour associated to intra and inter system interactions. The final goal of RESOLUTE is to adapt and adopt the identified concepts and methods from the defined guidelines for their operationalization and evaluation when addressing Critical Infrastructure (CI) of the Urban Transport System (UTS), through the implementation of the RESOLUTE Collaborative Resilience Assessment and Management Support System (CRAMSS), that adopts a highly synergic approach towards the definition of a resilience model for the next-generation of collaborative emergency services and decision making process.
Project budget	3.8 meuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab
Partnership	University of Florence + other nine international partners
Name of the project	**AXMEDIS: Automating Production of Cross media Content for Multimedia Distribution**
Type	Integrated Research Project, IP ICT FP6 funded by the E.C., 2004-2008, **international project**
Project Abstract (max 100 caratteri)	Developing a framework to perform content management by means of semantic descriptors, models and algorithms for semantic computing of contents and digital information, grid computing, parallel computing architectures'.
Project budget	14.400 Keuro

Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab
Partnership	University of Florence + other 34 international partners
Name of the project	**ECLAP: European Collected Library of Performing Arts**
Type	European Project funded by the E.C., research and innovation, CIP PSP, 2010-2013, **international partnership**
Project Abstract (max 100 caratteri)	Semantic and indexing models for multi-lingual contents, open data, linked open data, ingestion procedures (from 35 partners), descriptive models, semantic rules. Algorithms for suggestion calculation, knowledge and intelligence instruments, natural language processing, data mining.
Project budget	3.400 Keuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab
Partnership	University of Florence + other 19 international partners
Name of the project	**Sii-Mobility: Integrated interoperability support designed for Citizenship Services and Public Administration services**
Type	National smart city project
Project Abstract (max 100 caratteri)	Sii-Mobility promotes, in the urban mobility framework both on tire and railways, the development of new technologies and innovative ICT solution meant to improve the interoperability of info-mobility management systems both urban and extra-urban, in accordance with the provisions of the relevant Community legislation in force, in synergy with regional ones and with national and international actions.
Project budget	About 14.000 Keuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab
Partnership	Industry: ECM, Swarco Mizar, Università degli Studi di Firenze, Inventi In20, Geoin, QuestIT, Softec, T.I.M.E., LiberoLogico, MIDRA, ATAF, Tiemme, CTT Nord, BUSITALIA, A.T.A.M., Sistemi Software Integrati, Effective Knowledge, eWings, Argos Engineering, Elfi, Calamai, Project, Negentis.
Name of the project	**ICARO: La piattaforma cloud per l'accelerazione del business delle PMI toscane**
Type	POR CREO FESR 2007-2013 project, Tuscany Region, 2012 sole call of proposals, **regional project**
Project Abstract (max 100 caratteri)	Project on dynamic cloud systems. Research and study on Distributed Systems (automatic management algorithms, cloud middleware development models, semantic computing tools and intelligence for the generation and assessment of configuration problems and automatic combination of services, operative research (optimizing cost models and cloud management models).
Project budget	6.800 Keuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab. LEAD PARTNER: COMPUTERGROSS
Partnership	Industry: ComputerGross, + other 2 companies and UNIFI as technology transfer partner
Name of the project	**IMAESTRO: Interactive Multimedia Environment for Technology Enhanced Music Education and Creative Collaborative Composition and Performance**
Type	European Project, ICT, STREP funded by the European Commission. **International project**

Project Abstract (max 100 caratteri)	Developing collaborative models to teach music. Semantic models on user behaviour. Remote control collaborative tools, customization.
Project budget	2.700 Keuro
Project Lead Member	General Chair and Scientific coordinator: Paolo Nesi, on behalf of Università degli Studi di Firenze, DINFO dept. DISIT Lab. LEAD PARTNER : University of LEEDS, UK
Partnership	University of LEEDS, UK, + other 7 international partners.
Other national projects and European projects as Scientific Coordinator, project manager of the whole project	• **Select4City Tender Snap4City, on Smart City.** • **Sii-Mobility: 14 Meuro costs, National smart city.** • **AXMEDIS: 14,4 Meuro costs, 8.4 Meuro funding, E.C. project, international project.** • **ECLAP: 4.5 Meuro costs, 3.4 Meuro funding, E.C. project, international project.** • **COLL@BORA, 1 Meuro funding, national project Smart City MIUR, Social Innovation.** • **IMAESTRO: 2.7 Meuro funding, E.C. project, international project.** • **ICARO: 6,8 Meuro costs, regional project, 2012 sole call of proposals, Tuscany Region** • **WEDELMUSIC: 3.4 Meuro funding, E.C. project, international project.** • **MUSICNETWORK: 1.8 Meuro funding, E.C. project, FP V international project.** • **MOODS: E.C. project.**
Altri progetti nazionali ed Europei come Partner di progetto, e coordinamento di WP	• MOBIMart: mobility actions for the mediterraneo area • HeritData: impact and monitoring of tourism via big data >220.000 euro • Trafair: development of the prediction model for pollutant on the basis of traffic flow via Big data: CEF project of European Comission • SODA Green Impact: Regione Toscana • 5G: sperimentation of 5G 3G-Wind, MIUR • LAID SmartBed: smart beds with sensors for sleep analysis founded by Regione Toscana • Feedback: retail optimisation with recommendations, Regione Toscana • Giustizia Semplice: how Artificial Intelligence can support the on Città Metropolitana • WEEE: Life project funded by the European Commission. • IMUTUS: project funded by the European Commission, international project. • VARIAZIONI: project funded by the European Commission, international project: WP protection • MUPAAC: project funded by the European Commission, international project: WP optimization and ICT solution • ICCOC: project funded by the European Commission • IMEASY: project funded by the European Commission • VISICON: project funded by the European Commission • OPTAMS: project funded by the European Commission • TESYSRAIL: project of the Technological Cluster on National Transportation. • RIDIRE: FIRB project of the MIUR research and education Ministry. • QUACK: PRIN project of the MIUR research and education Ministry. • TRACEIT: regional project, 2012 sole call of proposals, Tuscany Region. • RAISSS: regional project, 2012 sole call of proposals, Tuscany Region. • POLITER: ICT innovation hubs, regional project funded by the Tuscany Region. • SACVAR: regional project meant to provide co-funding for grant researchers.

Teaching activity and supervision	- Full professor on the scientific area ING-INF/05, at Università degli Studi di Firenze, Department of Information Engineering, Via S. Marta 3, Firenze. Up to 2012 full prof at the Department of Systems and Informatics, currently at the Department of Information Engineering since 2013. Teaching activity in the graduating class of Degree in Computer Science Engineering, Degree in Telecommunications Engineers, Master's Degree in Computer Science Engineering with the following degree programmes - Distributed Systems (School of Engineering) (since 2003) - Collaborative and Protection systems (School of Engineering) (2009-2015) - Knowledge Management and Protection Systems (School of Engineering) (since 2016) - Big Data, Cloud, Smart System (Master in Big Data for Business) (since 2016) - Hospital emergencies, informatics (master) (2013-2014) - data intelligence (specialization school in national security) since 2014 - semantic models and knowledge accelerators (phd course). 2001-2008: Lecturer in Electronic Calculators, Bachelor's degree (3 years) in Electronic Engineering. 2000-2003: Lecturer in Fundamentals of Computer Science, Bachelor's degree (3 years) in Electronic Engineering, Territory and Environment Engineering. 1992-1998: Assistant lecturer and/or Lecturer in: Electronic Calculators, Fundamentals of Computer Science, Fundamentals of Computer Science 2, and Software Engineering.
Capacità e competenze trasversali	- Data Analytics: natural language processing, business intelligence, big data, cross media indexing, statistical analysis, optimization models. See projects such as: Sii-Mobility, Km4City, RESOLUTE, REPLICATE, OSIM, MyStoryPlayer, ECLAP, Mobile Medicine. - Semantic and cognitive computing: data mining, name disambiguation, data disambiguation, suggestions and recommendations, IOT systems, smart-city systems. See projects such as: Sii-Mobility, Km4City, RESOLUTE, REPLICATE, Snap4City. - Formal methods for the modelling of highly trustable software supporting railways and automotive signaling. See projects such as: Sii-Mobility, Km4City. - Intelligence systems: smart cloud, autonomous driving systems, intelligent contents, agent models, OD matrix, routing, navigation. - Models and tools for distance learning in different contexts. See projects such as Mobile Medicine, IMAESTRO, ECLAP, Palamede. Collaborative education models, social networks, evaluation models for distance learning and collaborative systems. - Information technology for medicine: decision support tools, tools for training and management of procedures, tools for first aid, tools for security management, emergency management systems. See projects such as Mobile Medicine e Mobile Emergency. - Software engineering: development models and tools, software quality, plagiarism (teaching of software engineering, research activities carried out in research projects, third party contracts and professional activity; consultant and trainer at CESVIT CQWARE software quality center, general chair of IEEE ICSM, CSMR, program chair: IEEE Metrics, IEEE ICSE, etc.; technical advisor for the court). - industrial automation: control systems, development and verification on control systems, formal methods of specification and verification and validation, performance assessment (teaching of software engineering, research activity carried out in research projects: OPTAMS, MUPAAC; ELEXA, SED, D-Electron third party contracts and in professional activity; general chair IEEE ICECCS, IEEE ICSM, CSMR, award best paper to IEEE ICECCS; expert for the court).

Technological transfer activities	• Since 2019: creation of the Spinoff named Snap4, on the area of Smart City and Industry 4.0 • since 2012: creation of the Spinoff named Effective Knowledge, a Florence University spin http://iuf.csavri.org/drupal/?q=it/node/4695 • since February 2011: University contact point for Apre Toscana research project help desk (http://www.apretoscana.org), CSAVRI (Centre of University Services related to the Research Enhancement and Management of the University Incubator), Università degli Studi di Firenze; • since January 2011: Member of the Scientific Committee at CSAVRI (Centre of University Services related to the Research Enhancement and Management of the University Incubator), Università degli Studi di Firenze http://www.unifi.it/CMpro-v-p-5965.html • 2015: Lecturer in the Tuscan Start Up Academy project; • Since 2011 up to 2013: deputy of the University of Florence in the ICT-Robotics Politer Innovation Cluster and in the Tuscan ICT-Robotics District, as well as the District Strategy Board; http://www.distrettoict-robotica.it • 2011-2014: scientific contact point on behalf of Univ. Of Florence in the framework of the technological transfer project ICT Robotics, named POLITER, regional project; • 2011: award for 4 innovations of the DISIT lab, given out by the Innovation Technologies Dissemination Agency of the Presidency of the Council of Ministers; • http://www.aginnovazione.gov.it/ , innovations have been selected in the call "Italy by Innovators". Innovative awarded solutions have been: Mobile Medicine, AXCP, Social Learning Management System, Mobile Emergency, see http://www.disit.dsi.unifi.it/projects.html • 2011: award given out by APRE Roma in favor of APREToscana as best research project technological help desk. http://www.apretoscana.org/drupal/?q=it/node/4870 • Since 2008 up to 2012 : member of the Certifying Committee Italcertifer (Italian Institute of Railway Research and Certification), Rome, on behalf of Università degli Studi di Firenze. • 2003: Chair of the State Exam Committee to get the qualification as engineer, Florence.
Further information and acknowledgements / awards	• Has given many talks upon invitation by the E.C. in several events. • Has given many talks upon invitation by the Confindustria (Industry confederate association) in Brussels: phonographs, media and entertainment, collecting societies, etc. • Prize awarded at international conferences such as: IEEE ICECCS, DMS, AXMEDSIS, etc. • Winner in the international competition for music transcodification algorithms MIREX 2009, with Gianni Pantaleo and Fabrizio Argenti (musical instrument, the piano). • Keynote speaker and tutorial notes at international conferences such as: IEEE SWSC, IEEE ICECCS, IEEE Metrics, CAPI, IIMS, IIMSS2009, SITIS, etc. • Some European projects have been selected after their end as best show-cases and excellent research examples by the European Commission. Namely: RESOLUTE, WEDELMUSIC, AXMEDIS. • 2002: ninth in the ranking of the best international researchers on Systems and Software Engineering (2000-2002), issued by the magazine Journal of Systems and Software on the basis of the best international magazines in the area of Software Engineering. • 2001: eleventh in the ranking of the best international researchers on Systems and Software Engineering (1997-2001), issued by the magazine Journal of Systems and Software on the basis of the best international magazines in the area of Software Engineering., the only Italian researcher.
Attachments	Attachment 1: a list of publications is attached below. For any other aspects please see http://www.disit.dinfo.unifi.it/ , http://www.disit.dinfo.unifi.it/nesi/

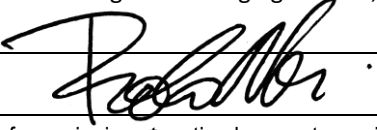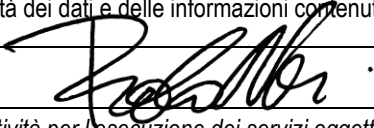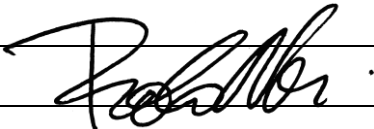## Attachment 1: a selection of the latest 10 years publications

Journals:
1. C. Badii, S. Bilotta, D. Cenni, A. Difino, P. Nesi, I. Paoli, M. Paolucci, "High Density Real-Time Air Quality Derived Services from IOT Networks", accepted for publication on Sensors, MDPI, 2020. https://www.mdpi.com/1424-8220/20/18/5435/htm
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3. C. Badii, P. Bellini, S. Bilotta, D. Bologna, D. Cenni, A. Difino, A. Ipsaro Palesi, N. Mitolo, P. Nesi, G. Pantaleo, I. Paoli, M. Paolucci, M. Soderi, "How COVID-19 Lockdown Impacted on Mobility and Environmental data", Bollettino della Società Geografica Italiana, FuPress, June 2020, https://drive.google.com/file/d/1hN4dFuEXLMLq4rMY8u88ilZnrVk3HPIl/view?u..., DOI: 10.13128//bsgi.v2i2.932

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5. C. Badii, P. Bellini, A. Difino, P. Nesi, G. Pantaleo, M. Paolucci, MicroServices Suite for Smart City Applications, Sensors, MDPI, 2019. https://doi.org/10.3390/s19214798

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9. L. Massai, P. Nesi, G. Pantaleo, "PAVAL: A location-aware virtual personal assistant for re-trieving geolocated points of interest and location-based services", Journal Engineering Applications of Artificial Intelligence, Elsevier, https://www.sciencedirect.com/science/article/pii/S0952197618301994

10. C. Badii, P. Nesi, I. Paoli, "Predicting available parking slots on critical and regular services exploiting a range of open data", IEEE Access, 2018, https://ieeexplore.ieee.org/abstract/document/8430514/

11. P. Bellini, P. Nesi, "Performance Assessment of RDF Graph Databases for Smart City Services", Journal of Visual Language and Computing, Elsevier, 2018. https://doi.org/10.1016/j.jvlc.2018.03.002

12. P. Nesi, G. Pantaleo, I. Paoli, I. Zaza, "Assessing the reTweet Proneness of tweets: predictive models for retweeting", Multimedia Tools and Applications, Springer, 2018. https://link.springer.com/article/10.1007/s11042-018-5865-0

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	Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali", in fede
Firma	
	Si dichiara ai sensi del DPR 445/2000 la veridicità dei dati e delle informazioni contenuti nel presente curriculum, in fede
Firma	
	Il sottoscritto si impegna a prestare la propria attività per l'esecuzione dei servizi oggetto della presente gara, nel caso di aggiudicazione.
Firma	
Data	September 2020