

CNR - National Research Council
ISTI - Institute of Information Science
and Technology "Alessandro Faedo"
Pisa
Italy

pasquale.pagano@isti.cnr.it
Website: www.linkedin.com/in/pasqualepagano
www.researchgate.net/profile/Pasquale_Pagano
Data di nascita: 17 gennaio 1968
Luogo di nascita: Napoli (Napoli), Italy
Residenza: Via G. Galilei, 107 - Cascina (Pisa)

Pasquale Pagano

Ph.D. in Information Engineering from the Department of Information Engineering: Electronics, Information Theory, Telecommunications of the University of Pisa

Education

- Jan 2003 – Apr 2006 Università di Pisa
Ph.D. in Information Engineering from the Department of Information Engineering: Electronics, Information Theory, Telecommunications, Information Engineering
Pisa, Italy
- Sep 1989 – Apr 1998 Università di Pisa
M.Sc. in Information Systems Technologies from the Department of Computer Science of the University of Pisa, Information Systems Technologies
Pisa, Italy

Research Experience

- Jan 2006 – present Senior Researcher
National Research Council, Institute of Information Science and Technology "Alessandro Faedo" ISTI
Pisa, Tuscany, Italy

Statistics

RG Score	27.57
Publications	157
Citations	1992
h-index	25
i10-index	51

Skills & Activities

Skills	Distributed Systems, Service Oriented Architecture, Distributed Information Systems, Cloud Computing, Distributed Computing, Service Oriented Infrastructure (SOI), System of Systems, Repositories, E-Science, Information Science, IT Infrastructure, Information Technology, Information and Communication Technology, Library Information Services, IT Systems, IT services, Digital Libraries
Languages	English, Italian

Activities Highlights

January 2012 – Present

Technical Director: D4Science Hybrid Data Infrastructure (D4Science.org)

D4Science.org is an organization offering an Hybrid Data Infrastructure service and a number of Virtual Research Environments.

An Hybrid Data Infrastructure (HDI) service represents a new solution supporting scientists called to deal with data-intensive science. In this domain, large-scale datasets come in all forms and shapes from huge international experiments to cross-laboratory, single laboratory, or even from a multitude of individual observations. An HDI assumes that several technologies, including Grid, private and public Cloud, can be integrated to provide an elastic access and usage of data and data-management capabilities. D4Science.org relies on the gCube software system to realize and operate its HDI.

A Virtual Research Environment (VRE) is a system with the following distinguishing features: (i) it is a web-based working environment; (ii) it is tailored to serve the needs of a community of practice; (iii) it is expected to provide a community of practice with the whole array of commodities needed to accomplish the community's goal(s); (iv) it is open and flexible with respect to the overall service offering and lifetime; and (v) it promotes fine-grained controlled sharing of both intermediate and final research results by guaranteeing ownership, provenance and attribution.

January 2020 – Present

Infrastructure Manager at SoBigData Research Infrastructure (N. 871042)

RIA - Research and Innovation Action - H2020-EU.1.4.1.2. - Integrating and opening existing national and regional research infrastructures of European interest

Topic: INFRAIA-01-2018-2019 - Integrating Activities for Advanced Communities

Duration: 48

Total Grant: 9.997.172,50 euro

CNR Grant: 1.426.000,00 euro

Project Effort: 1146 person/month

CNR Effort: 258 person/month

Role: Infrastructure Manager, WP Leader, Tasks Leader.

SoBigData++ strives to deliver a distributed, Pan-European, multi-disciplinary research infrastructure for big social data analytics, coupled with the consolidation of a cross-disciplinary European research community, aimed at using social mining and big data to understand the complexity of our contemporary, globally-interconnected society. SoBigData++ is set to advance on such ambitious tasks thanks to SoBigData, the predecessor project that started this construction in 2015. Becoming an advanced community, SoBigData++ will strengthen its tools and services to empower researchers and innovators through a platform for the design and execution of large-scale

social mining experiments. It will be open to users with diverse background, accessible on project cloud (aligned with EOSC) and also exploiting supercomputing facilities. Pushing the FAIR principles further, SoBigData++ will render social mining experiments more easily designed, adjusted and repeatable by domain experts that are not data scientists. SoBigData++ will move forward from a starting community of pioneers to a wide and diverse scientific movement, capable of empowering the next generation of responsible social data scientists, engaged in the grand societal challenges laid out in its exploratories: Societal Debates and Online Misinformation, Sustainable Cities for Citizens, Demography, Economics & Finance 2.0, Migration Studies, Sport Data Science, Social Impact of Artificial Intelligence and Explainable Machine Learning. SoBigData++ will advance from the awareness of ethical and legal challenges to concrete tools that operationalise ethics with value-sensitive design, incorporating values and norms for privacy protection, fairness, transparency and pluralism. SoBigData++ will deliver an accelerator of data-driven innovation that facilitates the collaboration with industry to develop joint pilot projects, and will consolidate an RI ready for the ESFRI Roadmap and sustained by a SoBigData Association.

December 2019 – Present

Member of the CNR – ISTI Council.

October 2019 – Present

Virtual Research Manager at Blue-Cloud – Piloting innovative services for Marine Research & the Blue Economy (N. 862409)

IA - Innovation Action - H2020-EU.3.2.5.1. - Climate change impact on marine ecosystems and maritime economy

Topic: BG-07-2019-2020 - The Future of Seas and Oceans Flagship Initiative

Duration: 36

Total Grant: 5.999.520,50 euro

CNR Grant: 638.212,50 euro

Project Effort: 710 person/month

CNR Effort: 108 person/month

Role: CNR participant contact for the European Commission, VRE Manager, WP Leader, Tasks Leader, CNR representative member for the Strategic Board and of the General Assembly.

Blue-Cloud is a flagship EU initiative that addresses the urgent contemporary challenges related to the future of the seas and oceans. The project holds great potential to deliver societal solutions via the implementation of five innovative demonstrators, covering specific domains such as biodiversity and genomics, environment, fisheries and aquaculture.

Through a smart federation of data resources, computing facilities, and analytical tools Blue-Cloud aims to provide researchers with access to: (i) Blue multi-disciplinary data from observations, in-situ and remote sensing, data products and outputs of numerical models; (ii) a blue Virtual Research Environment (VRE) with various services to support its users in undertaking world class science. Furthermore, Blue-Cloud will also elaborate and pilot the organisational and technical framework for a so called “thematic cloud” as envisioned in the European Open Science Cloud (EOSC) strategy.

June 2019 – Present

Referente Scientifico CNR per lo *Studio relativo alla piattaforma sperimentale di monitoraggio dinamico* nel contesto della Convenzione MIT-DGSIS e il CNR – Dipartimento di Ingegneria, ICT e Tecnologie per l’Energia e i Trasporti, in atti con prot. R.C. n. 197 del 28.12.2018.

January 2019 – Present

Infrastructure Manager at ARIADNEplus (823914).

RIA - Research and Innovation Action - H2020-INFRAIA-2018-1 - Integrating and opening existing national and regional research infrastructures of European interest

Topic: INFRAIA-2018-1 - Integrating activities for Advanced Communities

Duration: 48

Total Grant: 6.597.367,50 euro

CNR Grant: 894.000,00 euro

Project Effort: 983 person/month

CNR Effort: 112 person/month

Role: Infrastructure Manager, WP Leader, Tasks Leader.

ARIADNEplus will build on the ARIADNE results, extending and supporting the research community that the previous project created and further developing the relationships with key stakeholders such as the most important European archaeological associations, researchers, heritage professionals, national heritage agencies and so on. The new enlarged partnership of ARIADNEplus covers all of Europe. It now includes leaders in different archaeological domains like palaeoanthropology, bioarchaeology and environmental archaeology as well as other sectors of archaeological sciences, including all periods of human presence from the appearance of hominids to present times. Transnational Activities together with the planned training will further reinforce the presence of ARIADNEplus as a key actor.

The technology underlying the project is state-of-art. The ARIADNEplus data infrastructure will be embedded in a cloud that will offer the availability of Virtual Research Environments where data-based archaeological research may be carried out. The project will furthermore develop a Linked Data approach to data discovery. Innovative services will be made available to users, such as visualization, annotation, text mining and geo-temporal data management. Innovative pilots will be developed to test and demonstrate the innovation potential of the ARIADNEplus approach. Fostering innovation will be a key aspect of the project, with dedicated activities led by the project Innovation Manager.

December 2015 - Present

Responsabile Amministratore di Sistema CNR per la piattaforma RedBox per la gestione e la rendicontazione delle attività progettuali, nazionali ed Europee. Prot. CNR -ISTI N. 0004860 del 18/12/2015 e Prot. CNR-ISTI N. 3559 del 07/10/2019.

December 2012 – Present

Coordinatore Gruppo di Lavoro CNR – ISTI per la progettazione, gestione, evoluzione e mantenimento della piattaforma RedBox per la gestione e la rendicontazione delle attività progettuali, nazionali ed Europee. CNR -ISTI N.3643 del 21/12//2012.

December 2012 – Present

Coordinatore Gruppo di Lavoro CNR – ISTI per la progettazione, gestione, evoluzione e mantenimento della Sistema Informativo Integrato di Istituto, ExBox, al fine di integrare tutte le fonti informative dell'Istituto. Prot. CNR -ISTI N.3643 del 19/04//2012

September 2015 – December 2019

Infrastructure Manager at SoBigData Research Infrastructure (N. 654024)

RIA - Research and Innovation Action - H2020-EU.1.4.1.2. - Integrating and opening existing national and regional research infrastructures of European interest

Topic: INFRAIA-1-2014-2015 - Integrating and opening existing national and regional research infrastructures of European interest

Duration: 48

Total Grant: 5.917.500,00 euro

CNR Grant: 1.085.000,00 euro

Project Effort: 586 person/month

CNR Effort: 138 person/month

Role: Infrastructure Manager, WP Leader, Tasks Leader.

SoBigData is the European Research Infrastructure for Big Data and Social Mining. It proposes to create the Social Mining & Big Data Ecosystem: a research infrastructure (RI) providing an integrated ecosystem for ethic-sensitive scientific discoveries and advanced applications of social data mining on the various dimensions of social life, as recorded by “big data”. Building on several established national infrastructures, SoBigData will open up new research avenues in multiple research fields, including mathematics, ICT, and human, social and economic sciences, by enabling easy comparison, re-use and integration of state-of-the-art big social data, methods, and services, into new research.

May 2015 – October 2019

Operation Manager at PARTHENOS - Pooling Activities, Resources and Tools for Heritage E-research Networking, Optimization and Synergies (parthenos-project.eu)

PARTHENOS aims at strengthening the cohesion of research in the broad sector of Linguistic Studies, Humanities, Cultural Heritage, History, Archeology and related fields through a thematic cluster of European Research Infrastructures, integrating initiatives, e-infrastructures and other world-class infrastructures, and building bridges between different, although tightly, interrelated fields. PARTHENOS will achieve this objective through the definition and support of common standards, the coordination of joint activities, the harmonization of policy definition and implementation, and the development of pooled services and of shared solutions to the same problems.

PARTHENOS addresses and provides common solutions to the definition and implementation of joint policies and solutions for the humanities and linguistic data lifecycle, taking into account the specific needs of the sector that require dedicated design, including provisions for cross-discipline data use and re-use, and data curation policies, including long-term preservation; quality criteria and data approval/certification; IPR management, also addressing sensitive data and privacy issues; foresight studies about innovative methods for the humanities; standardization and interoperability; common tools for data-oriented services such as resource discovery, search services, quality assessment of metadata, annotation of sources; communication activities; and joint training activities. Built around the two ERICs of the sector, DARIAH and CLARIN, and involving all the relevant Integrating Activities projects, PARTHENOS delivers guidelines, standards, methods, services and tools to be used by its partners and by all the research community. As operation manager, I am responsible of the cloud-based infrastructure design, set-up, and operation. D4Science HDI supports PARTHENOS by providing procedures, services, and resources while facilitating the integration of community specific ones.

September 2015 – April 2018

Technical Director at BlueBRIDGE - Building Research environments fostering Innovation, Decision making, Governance and Education to support Blue growth (bluebridge-vres.eu)

BlueBRIDGE responds to the Juncker Investment Plan opening funding opportunities for e-Infrastructures, innovating current practices in producing & delivering scientific knowledge advice

to competent authorities & enlarges the spectrum of growth opportunities in distinctive Blue Growth areas.

BlueBRIDGE builds on existing EU and International e-Infrastructures providing capacity building in interdisciplinary research communities of scientists, data managers & educators in academic institutions & industries focusing on 4 major challenges: 1) stock assessment 2) socio-economic performance analysis in aquaculture 3) fisheries & habitat degradation monitoring 4) education & knowledge bridging on protection & management of marine resources. BlueBRIDGE capitalizes on past investments and uses the D4Science infrastructure connecting 1500+ scientists, integrating +50 repositories, executing +13,000 models & algorithms/month; providing access to over a billion quality records in repositories worldwide, with 99,7% service availability.

BlueBRIDGE focuses on user needs, opening services & data to actors & liaising with competent agencies & SME Innovation Clusters. Major results include service-driven research environments addressing concrete challenges, data and a wide range of user defined Blue Growth indicators. It leverages a set of common services that together foster the realization of an innovative infrastructure-based approach for collaborative knowledge and data sharing, publishing, citation, traceability & trust concretely contributing to the e-Infrastructure Commons. It bundles forces from International Government Organizations, research institutes, industry, SMEs, education and computer science domains, establishing a network with a proven track in VREs & e-Infrastructures, marine, environmental & fisheries science & economy.

November 2011 – November 2014 (3 years 1 month)

Technical Director at iMarine EU Project

iMarine launched an initiative to establish and operate an e-infrastructure supporting the principles of the Ecosystem Approach to fisheries management and conservation of marine living. By empowering a Community of Practice of scientists, practitioners, managers and fishers, iMarine established an open data infrastructure to provide the necessary support to a concrete implementation of the Ecosystem Approach to Fishery. The Ecosystem Approach relies on a set of knowledge and data sources much broader than that used in conventional and fishery management and conservation. The monitoring and assessment of target, emblematic or vulnerable species needs to be broadened to cover species assemblages, communities, habitats, and ecosystems, and to cover fisheries' impacts on all goods and services offered by those ecosystems.

As iMarine Technical Director, I was responsible of monitoring the day-by-day progress of all technical activities (i.e., technical aspects across the networking, service and joint research activities, including collaboration with the iMarine Board and the iMarine Council) and I provided detailed resource allocation and scheduling, while monitoring the time schedule and the timing of related activities.

October 2009 – September 2011 (2 years)

Technical Director at D4Science-II EU Project

D4Science-II aimed to provide mechanism for facilitating interoperation of the D4Science e-Infrastructure with diverse other data e-Infrastructures that are running autonomously thus creating the core of an e-Infrastructure Ecosystem.

This e-Infrastructure Ecosystem served a significantly expanded set of communities dealing with multidisciplinary, scientific and societal challenges. To set up a prototypical instance of such an ecosystem, D4Science-II brought together several scientific e-Infrastructures established in areas such as biodiversity, fishery resources management and high-energy physics. This approach

supported several critical scientific scenarios by integrating AQUAMAPS, DRIVER, GENESI-DR and INSPIRE- that are distinct but also feed into and enrich each other.

In collaboration with appropriate international bodies and initiatives, D4Science-II took steps to ensure sustainability of the Knowledge Ecosystem.

The D4Science-II enabling technology was gCube, an innovative service-based, autonomic, Virtual Research Environment (VRE) management system. It supported the declarative and interactive creation of transient VREs by aggregating and deploying on-demand content resources and application services while exploiting computational and storage resources of a grid infrastructure.

January 2008 – December 2009 (2 years)

Technical Director at D4Science EU Project - DIstributed colLaboratories Infrastructure on Grid ENabled Technology 4 Science

D4Science aimed to continue the path that the GÉANT (a multi-gigabit pan-European data communications network), EGEE (Enabling Grids for E-science in Europe), and DILIGENT (A Digital Library Infrastructure on Grid Enabled Technology) projects have initiated towards establishing networking, grid-based, and data-centric e-Infrastructures. These e-Infrastructures were expected to accelerate multidisciplinary research by overcoming several crucial barriers that stand in the way, primarily those related to heterogeneity, sustainability and scalability.

D4Science produced a testbed of an e-Infrastructure and its enabling technology, gCube. gCube is a generic software that allows to access heterogeneous, distributed technologies, services and content while guaranteeing interoperability of these resources. The gCube software and framework enabled for the first time the building of Virtual Research Environments (VREs). These were based on shared computational, data and service resources offered by many providers like EGEE and large international organizations. VREs can be used for different requests, e.g. the monitoring of processes, the analysis of data and the collaboration of users.

September 2004 – November 2007 (3 years 3 months)

Technical Support Manager at Diligent EU Project

The main objective of DILIGENT was to create an advanced testbed for knowledge e-Infrastructure to enable members of dynamic virtual e-Science organisations to access shared knowledge and to collaborate in a secure, coordinated, dynamic and cost-effective way. This e-Infrastructure has been built by integrating grid and digital library technology. The merging of these two forms of technology has opened the way to a new generation of e-Science knowledge e-Infrastructures able to provide powerful environments for research and industrial applications.

Publication Highlights

Journal Articles

- Frosini L., Pagano P., Candela L., Simi M., Bernardeschi C. (2021) - ReLock: a resilient two-phase locking RESTful transaction model in Service-oriented computing and applications (Internet) (2021). doi:10.1007/s11761-020-00311-z
- Coro G., Panichi G., Pagano P., Perrone E. (2020) - NLPHub: an e-Infrastructure-based text mining hub in Concurrency and computation (Online) (2020): e5986. doi:10.1002/cpe.5986

- Assante M., Boizet A., Candela L., Castelli D., Cirillo R., Coro G., Fernández E., Filter M., Frosini L., Georgiev T., Kakaletis G., Katsivelis P., Knapen R., Lelii L., Lokers R. M., Mangiacrapa F., Manouselis N., Pagano P., Panichi G., Penev L., Sinibaldi F. - Realizing virtual research environments for the agri-food community: the AGINFRA PLUS experience in *Concurrency and computation (Online)* (2020). doi:10.1002/cpe.6087
- [CNR ID: 403216] Assante M.; Candela L.; Castelli D.; Cirillo R.; Coro G.; Frosini L.; Lelii L.; Mangiacrapa F.; Pagano P.; Panichi G.; Sinibaldi F. (2019) - Enacting open science by D4Science in *Future Generation Computer Systems*
- [CNR ID: 383558] Scarponi P.; Coro G.; Pagano P. (2018) - A collection of aquamaps native layers in NetCDF format in *Data in Brief*
- [CNR ID: 384080] Coro G.; Gonzalez Vilas L.; Magliozzi C.; Ellenbroek A.; Scarponi P.; Pagano P. (2018) - Forecasting the ongoing invasion of *Lagocephalus sceleratus* in the Mediterranean Sea in *Ecological Modelling*
- [CNR ID: 392230] Coro G.; Palma M.; Ellenbroek A.; Panichi G.; Nair T.; Pagano P. (2018) - Reconstructing 3D virtual environments within a collaborative e-infrastructure in *Concurrency and Computation: Practice and Experience*
- [CNR ID: 393002] Coro G.; Scarponi P.; Pagano P. (2018) - Enhancing ARGO floats data re-usability in *Bollettino di Geofisica Teorica ed Applicata (Testo stamp.)*
- [CNR ID: 393104] Frosini L.; Bardi A.; Manghi P.; Pagano, P. (2018) - An aggregation framework for digital humanities infrastructures: The PARTHENOS experience in *SCIRES-IT (Roma)*
- [CNR ID: 393106] Frosini, L. and Pagano, P. (2018) - A facet-based open and extensible resource model for research data infrastructures in *The Grey journal (Print)*
- [CNR ID: 393393] Assante M.; Candela L.; Castelli D.; Cirillo R.; Coro G.; Frosini L.; Lelii L.; Mangiacrapa F.; Marioli V.; Pagano P.; Panichi G.; Perciante C.; Sinibaldi F. (2018) - The gCube system: delivering virtual research environments as-a-service in *Future generation computer systems*
- [CNR ID: 393597] Coro G.; Pagano P.; Ellenbroek A. (2018) - Detecting patterns of climate change in long-term forecasts of marine environmental parameters in *International journal of digital earth (Online)*
- [CNR ID: 374316] Coro G.; Panichi G.; Scarponi P.; Pagano P. (2017) - Cloud computing in a distributed e-infrastructure using the Web processing service standard in *Concurrency and computation (Online)*
- [CNR ID: 334285] Trumpy E.; Coro G.; Manzella A.; Pagano P.; Castelli D.; Calcagno P.; Nador A.; Bragasson T.; Grellet S.; Siddiqi G. (2016) - Building a European geothermal information network using a distributed e-Infrastructure in *International journal of digital earth (Online)*
- [CNR ID: 345471] Coro G.; Magliozzi C.; Ellenbroek A.; Kaschner K.; Pagano P. (2016) - Automatic classification of climate change effects on marine species distributions in 2050 using the AquaMaps model in *Environmental and ecological statistics (Dordr., Online)*
- [CNR ID: 346523] Coro G.; Magliozzi C.; Vanden Berghe E.; Bailly N.; Ellenbroek A.; Pagano P. (2016) - Estimating absence locations of marine species from data of scientific surveys in OBIS in *Ecological modelling*
- [CNR ID: 357413] Coro G.; Large S.; Magliozzi C.; Pagano P. (2016) - Analysing and forecasting fisheries time series: purse seine in Indian Ocean as a case study in *ICES journal of marine science (Print)*

- [CNR ID: 359528] Coro G.; Panichi G.; Pagano P. (2016) - A Web application to publish R scripts as-a-Service on a Cloud computing platform in *Bollettino di geofisica teorica ed applicata* (Testo stamp.)
- [CNR ID: 359532] Coro G.; Pagano P.; Napolitano U. (2016) - Bridging environmental data providers and SeaDataNet DIVA service within a collaborative and distributed e-Infrastructure in *Bollettino di geofisica teorica ed applicata* (Testo stamp.)
- [CNR ID: 295337] Assante M.; Candela L.; Castelli D.; Manghi P.; Pagano P. (2015) - Science 2.0 Repositories: Time for a Change in Scholarly Communication in *D-Lib magazine*
- [CNR ID: 329754] Coro G.; Magliozzi C.; Ellenbroek A.; Pagano P. (2015) - Improving data quality to build a robust distribution model for *Architeuthis dux* in *Ecological Modelling*
- [CNR ID: 331988] Coro G.; Webb T. J.; Appeltans W.; Bailly N.; Cattrijsse A.; Pagano P. (2015) - Classifying degrees of species commonness: North Sea fish as a case study in *Ecological Modelling*
- [CNR ID: 331989] Vanden Berghe E.; Coro G.; Bailly N.; Fiorellato F.; Aldemita C.; Ellenbroek A.; Pagano P. (2015) - Retrieving taxa names from large biodiversity data collections using a flexible matching workflow in *Ecological Informatics* (Print)
- [CNR ID: 285062] Coro G.; Pagano P.; Ellenbroek A. (2014) - Comparing Heterogeneous Distribution Maps for Marine Species in *GIScience and Remote Sensing*
- [CNR ID: 285065] Manghi P.; Artini M.; Atzori C.; Bardi A.; Mannocci A.; La Bruzzo S.; Candela L.; Castelli D.; Pagano P. (2014) - The D-NET software toolkit A framework for the realization, maintenance, and operation of aggregative infrastructures in *Program* (Lond., 1966)
- [CNR ID: 293711] Assante M.; Candela L.; Castelli D.; Mangiacrapa F.; Pagano P. (2014) - A social networking research environment for scientific data sharing: the D4Science offering in *The Grey Journal* (Print)
- [CNR ID: 293732] Coro G.; Candela L.; Pagano P.; Italiano A.; Liccardo L. (2014) - Parallelizing the execution of native data mining algorithms for computational biology in *Concurrency and Computation* (Online)
- [CNR ID: 331971] Amaral R.; Badia R. M.; Blanquer I.; Braga-Neto R.; Candela L.; Castelli D.; Flann C.; De Giovanni R.; Gray W. A.; Jones A.; Lezzi D.; Pagano P.; Perez-Canhos V.; Francisco Q.; Rafanell R.; Rebello V.; Sousa-Baena M. S.; Torres E. (2014)- Supporting biodiversity studies with the EUBrazilOpenBio Hybrid Data Infrastructure in *Concurrency and Computation* (Online)
- [CNR ID: 331972] Candela L.; Castelli D.; Coro G.; Lelii L.; Mangiacrapa F.; Marioli V.; Pagano P. (2014) - An infrastructure-oriented approach for supporting biodiversity research in *Ecological Informatics* (Print)
- [CNR ID: 209399] Assante M.; Candela L.; Pagano P. (2013) - An environment supporting the production of live research objects in *The Grey Journal* (Print)
- [CNR ID: 276817] Candela L., Castelli D., Pagano P. (2013) - Virtual research environments: an overview and a research agenda in *Data science journal*
- [CNR ID: 276819] Pagano P., Candela L., Castelli D. (2013) - Data Interoperability in *Data science journal*
- [CNR ID: 276821] Coro G.; Pagano P.; Ellenbroek A. (2013) - Combining simulated expert knowledge with Neural Networks to produce Ecological Niche Models for *Latimeria chalumnae* in *Ecological modelling*

- [CNR ID: 276885] Appeltans W.; Pissierssens P.; Coro G., Italiano A.; Pagano P.; Ellenbroek A.; Webb T. (2013) - Trendlyzer: a long-term trend analysis on biogeographic data in *Bollettino di geofisica teorica ed applicata* (Testo stamp.)
- [CNR ID: 276888] Castelli D., Pagano P., Candela L., Coro G. (2013) - The iMarine data bonanza: improving data discovery and management through a hybrid data infrastructure in *Bollettino di geofisica teorica ed applicata* (Testo stamp.)
- [CNR ID: 276890] Coro G.; Gioia A.; Pagano P.; Candela L. (2013) - A service for statistical analysis of marine data in a distributed e-infrastructure in *Bollettino di geofisica teorica ed applicata* (Testo stamp.)
- [CNR ID: 276891] Candela L.; Castelli D.; Coro G.; Pagano P.; Sinibaldi F. (2013) - Species distribution modeling in the cloud in *Concurrency and computation* (Online)
- [CNR ID: 68502] Manghi P.; Mikulicic M.; Candela L.; Castelli D.; Pagano P. (2010) - Realizing and maintaining aggregative digital library systems: D-NET software toolkit and OAster system in *D-Lib magazine*
- [CNR ID: 44300] Candela L.; Castelli D.; Pagano P. (2009) - On-demand virtual research environments and the changing roles of librarians in *Library hi tech*
- [CNR ID: 44304] Ioannidis Y.; Manghi P.; Pagano P. (2009) - Report of the Second Workshop on Very Large Digital Libraries : in conjunction with the European Conference on Digital Libraries Corfu, Greece, 2 October 2009 in *SIGMOD record*
- [CNR ID: 68470] Manghi P.; Mikulicic M.; Artini M.; Candela L.; Castelli D.; Pagano P. (2009) - Aggregative digital library systems in the DRIVER infrastructure in *World digital libraries* (Print)
- [CNR ID: 68479] Candela L.; Castelli D.; Pagano P. (2009) - Le biblioteche digitali: origini ed evoluzioni storiche in *Digitalia* (Testo stamp.)
- [CNR ID: 68486] Pagano P.; Simeoni F.; Simi M.; Candela L. (2009) - Taming development complexity in service-oriented e-infrastructures
- [CNR ID: 246226] Candela L.; Castelli D.; Pagano P. (2009) - Le biblioteche digitali: origini ed evoluzioni storiche in *Digitalia* (Testo stamp.)
- [CNR ID: 250241] Manghi P.; Mikulicic M.; Artini M.; Candela L.; Castelli, D.; Pagano P. (2009) - Aggregative digital library systems in the DRIVER Infrastructure in *World Digital Libraries Journal*
- [CNR ID: 44199] Artini M.; Candela L.; Castelli D.; Manghi P.; Mikulicic M.; Pagano P. (2008) - Sustainable digital library systems over the DRIVER repository infrastructure in *Lecture notes in computer science*
- [CNR ID: 44234] Manghi P.; Pagano P.; Zezula P. (2008) - Report of the First Workshop on Very Large Digital Libraries - VLDL2008 in *SIGMOD record*
- [CNR ID: 68403] Candela L.; Akal F.; Avancini H.; Castelli D.; Fusco L.; Guidetti V.; Langguth, C.; Manzi A.; Pagano P.; Schuldt H.; Simi M.; Springmann M.; Voicu L. (2007)- DILIGENT: integrating digital library and Grid technologies for a new earth observation research infrastructure in *International journal on digital libraries* (Print)
- [CNR ID: 68409] Candela L.; Castelli D.; Ioannidis Y.; Koutrika G.; Pagano P.; Ross S.; Schek H.; Schuldt H. (2007) - Manifest Digitalnych Kniníc (The Digital Library Manifesto) in *Kniznica* (Tlacené vydanie)
- [CNR ID: 68417] Candela L.; Castelli D.; Ioannidis Y.; Koutrika G.; Pagano P.; Ross S.; Schek H.; Schuldt H.; Thanos C. (2007) - Setting the foundations of digital libraries - The DELOS Manifesto in *D-Lib magazine*

- [CNR ID: 43823] Candela L.; Castelli D.; Pagano P.; Simi M. (2005) - From heterogeneous information spaces to virtual documents in Lecture notes in computer science
- [CNR ID: 68288] Castelli D.; Pagano P.; Thanos C. (2004) - OpenDLib: an infrastructure for new generation digital libraries in International journal on digital libraries (Print)
- [CNR ID: 68390] Castelli D.; Pagano P.; Straccia U. (2001) - Scholnet and Cyclades: extending the role of digital libraries in D-Lib magazine
- [CNR ID: 240321] Andreoni Antonella, Baldacci Maria Bruna, Biagioni Stefania, Carlesi Carlo, Castelli Donatella, Pagano Pasquale, Peters Carol, Pisani Serena (1999) - The ERCIM technical reference digital library: meeting the requirements of a european community within an international federation in D-Lib magazine
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(Pasquale Pagano)

Il sottoscritto Pasquale Pagano nato a Napoli (NA) il 17/01/1968 e residente a Cascina (PI) in Via G. Galilei n. 107, consapevole della responsabilità penale prevista dall'art. 76 del D.P.R. 445/2000 per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate, dichiara che quanto indicato nel presente Curriculum Vitae corrisponde a verità.

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".