

## PERSONAL INFORMATION

## Enrico Boldrini



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 enrico.boldrini@cnr.it  
 [www.essi-lab.eu](http://www.essi-lab.eu)

Sex Male | Date of birth 16 Aug 1982 | Nationality Italian

## PERSONAL STATEMENT

Researcher in Earth and Space Science Informatics working with National Research Council of Italy (CNR) ESSI-Lab from 2007.

## WORK EXPERIENCE

30 Nov 2018–Present

**Researcher**

CNR - Institute of Atmospheric Pollution Research  
Via Madonna del piano 10, 50019 Sesto Fiorentino FI (Italy)  
[www.essi-lab.eu](http://www.essi-lab.eu)

In the past years he has been active in the context of several national and international projects and initiatives, such as FP7 ODIP, H2020 ODIP2, FP7 SeaDataNet II, H2020 SeaDataCloud, FP7 EarthServer, FP7 GEOWOW, CNR GIIDA, Italian special project NextData, ESA HMA-T, ESA ProdTrees, NSF BCube, GEOSS Common Infrastructure (GCI), ARPA-ER, WMO Hydrology Commission.

His work focuses on enabling inter-disciplinary interoperability in the context of Earth Science. His main activities include development and management of Discovery and Access Broker (DAB) frameworks, drafting of metadata standards (e.g. SeaDataNet ISO 19115 profile, NetCDF EO conventions).

Business or sector Research

19 Dec 2018–20 Dec 2018

**Training course instructor**

Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Italy, Parma (Italy)

Training course "Implementing standards for interoperability in hydrology" in the framework of PGSIM/2018/1728 agreement between Regional Agency for Prevention, Environment and Energy of Emilia-Romagna and National Research Council of Italy - Institute of Atmospheric Pollution Research.

1 Aug 2012–29 Nov 2018

**Research Institute Technician**

CNR - Institute of Atmospheric Pollution Research  
Via Madonna del piano 10, 50019 Sesto Fiorentino FI (Italy)  
[www.essi-lab.eu](http://www.essi-lab.eu)

Design, development and management of components and software systems for data sharing and processing, in Earth Science and multidisciplinary domains, according to the main international initiatives (e.g. GEO/GEOSS, INSPIRE, GMES), in Java language, with software engineering methods (e.g. UML, RM-ODP) and collaborative development tools (e.g. Git, Maven).

The activity includes the coordination and management of the GEO-DAB brokering framework development, through collaborative tools, documentation and support.

Business or sector Research

14 Dec 2017–15 Dec 2017

**Training course instructor**

Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Italy, Parma (Italy)

Training course "Implementing standards for interoperability in hydrology" in the framework of PGSIM/2017/702 agreement between Regional Agency for Prevention, Environment and Energy of Emilia-Romagna and National Research Council of Italy - Institute of Atmospheric Pollution Research.

- 19 Dec 2016–20 Dec 2016 **Training course instructor**  
Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Italy, Parma (Italy)  
Training course "Interoperability of hydrology services and data models" in the framework of PGSIM/2016/1749 agreement between Regional Agency for Prevention, Environment and Energy of Emilia-Romagna and National Research Council of Italy - Institute of Atmospheric Pollution Research.
- 1 Jun 2012–31 Jul 2012 **Software Developer**  
Centro Sistemi ed Elaborazioni, Roma (Italy)  
Fixed term contract on a software development project.
- 2012–2012 **Teaching Professional**  
PIN Soc. Consortile s.r.l., Prato (Italy)  
Teaching contract for the course "Interoperability of Geospatial Resources".
- 28 Feb 2012–29 Feb 2012 **Computer systems designer and analyst**  
Istituto Zooprofilattico Sperimentale delle Venezie, Padova (Italy)  
Analysis and Design of a relational database about Animal Infectious Diseases.
- 1 Jun 2011–31 May 2012 **Research Institute Technician**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Design, development and management of components and software systems for data sharing and processing, in Earth Science and multidisciplinary domains.
- 11 Oct 2011–12 Oct 2011 **Teaching professional**  
PIN s.c.r.l. Teaching Services for the University of Florence, Prato (Italy)  
Teaching contract for the course "Interoperability of Geospatial Resources".
- 18 Mar 2011–30 Jun 2011 **Collaboration**  
PIN s.c.r.l. Teaching Services for the University of Florence, Prato (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 15 Jul 2010–28 Feb 2011 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 15 Jan 2010–14 Jul 2010 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 15 Dec 2009–14 Jan 2010 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.

- 15 Jun 2009–14 Dec 2009 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Apr 2009–31 May 2009 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Feb 2009–31 Mar 2009 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Dec 2008–31 Jan 2009 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Jul 2008–30 Nov 2008 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Jan 2008–30 Apr 2008 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Jul 2007–31 Dec 2007 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 1 Feb 2007–30 Jun 2007 **Collaboration**  
CNR - Institute of Methodologies for Environmental Analysis, Potenza (Italy)  
Development of software and tools for interoperability of Geospatial Resources.
- 2007–2007 **Collaboration**  
University of Florence, Firenze (Italy)  
Development of GAMSFOR compiler.
- 27 Jul 2006–17 Sep 2006 **Summer Student**  
Deutsches Elektronen Synchrotron, Berlin (Germany)  
Development of a profiler for the parallel supercomputer apeNEXT.

## EDUCATION AND TRAINING

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- 19 Feb 2013–16 Jan 2017 **PhD - Doctoral School Scienza e Tecnica "Bernardino Telesio"**  
University of Calabria, Rende CS (Italy)  
Thesis title: Integration of mercury atmospheric models in a framework for interoperable workflow execution

1 Sep 2006–27 Apr 2011

**Master of Science Degree in Science and Technologies of Information**

University of Florence, Firenze (Italy)

- final grades: 110 cum laude/110
- thesis title: Implementation and optimization of persistence functionalities in a distributed catalog for Geospatial datasets

1 Sep 2002–28 Apr 2006

**Deegree in Computer Science**

University of Florence, Firenze (Italy)

- specialisation: Informatics applications to Physics.
- final grades: 100/110
- thesis title: Neural Networks applications for the Voice Recognition

1 Sep 1996–15 Jul 2001

**Scientific Diploma**

Second Level College of Science A.M.E. Agnoletti, Sesto Fiorentino FI (Italy)

- specialisation: Informatics
- final grades: 92/100

**PERSONAL SKILLS**

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
First Certificate in English (Cambridge University)					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills Excellent communication skills, perfected through participation to international meetings and conferences.

Organisational / managerial skills Excellent organisational skills gained through collaborative working with international research teams.

Job-related skills Languages and Technologies: expert in design and development of Java applications, web services and clients according to standard specifications, XML technologies (XPath, StAX, XSLT, XSD, Schematron, JAXB, JAX-WS, NXD), collaborative development environments (Eclipse, Maven, Nexus, Git), technologies for production grade systems (JUnit, Jenkins, docker, kubernetes). Knowledge of Matlab, Octave, Bash scripting, Prolog, C/C++, Fortran, Pascal, web design (HTML, Javascript, JSP, Java Applets, PHP, CSS), assembler languages (MIPS, INTEL, DSP e apeNEXT).  
 Operating Systems: Linux (Debian, Ubuntu, CentOS), MS-Windows, MacOSX.  
 Hardware: installation and management of multiprotocol networks, hardware assembly work.  
 Important Software Authored: production grade brokering frameworks (i.e. GEODAB in the context of the Group on Earth Observation GEOSS and the brokering suite of WMO Hydrological Observing System), GI-cat, GI-axe, GI-suite.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving

Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
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Digital skills - Self-assessment grid

Driving licence B

#### ADDITIONAL INFORMATION

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##### Honours and awards

##### **Geospatial World Innovation Award 2014**

*Issued by Geospatial World Forum to the CNR-IIA ESSI-Lab team, for the category "Technology Innovation in Interoperability".*

*The winner team was composed by:*

*Stefano Nativi (coordinator)*

*Lorenzo Bigagli*

*Enrico Boldrini*

*Paolo Mazzetti*

*Massimiliano Olivieri*

*Fabrizio Papeschi*

*Roberto Roncella*

*Mattia Santoro*

Coverage of the news from CNR site: <http://www.cnr.it/news/index/news/id/5795>

Official award page: [http://awards.geospatialmedia.net/gwf/award\\_list.htm](http://awards.geospatialmedia.net/gwf/award_list.htm)

Protocolled by CNR (n. 0001278, 2016-4-15, IIA-CNR-IIA)

##### Memberships

Membership:

**Member of European Geosciences Union.**

Membership:

**Member of American Geophysical Union.**

Membership.

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**Member of Open Geospatial Consortium.**

Role:

Member of the CNR DTA Working Group Italian Arctic Data Center (IADC), with the aim of supporting DTA management, in giving credit and spreading datasets and scientific results acquired in the Polar domain. (Protocollo n. 0020068 del 13/03/2014).

Role:

Collaborator as an expert in interoperability of geospatial resources in the working group Data Management of National Program of Antarctic Research - Gestione dati Programma Nazionale Ricerche in Antartide (PNRA) belonging to CNR DTA. (Protocollo n. 0050702 del 2/8/2012).

## Certifications

Public contest ranking:

Ranked 2nd (passed) in a CNR public contest (n. 367.27 IIA RIC) for the employment as a Researcher at Istituto sull'Inquinamento Atmosferico di Sesto Fiorentino (FI). (Protocollo del 6/10/2017).

Public contest ranking:

Ranked 2nd (passed) in a CNR public contest (n. 367.79 DISBA IBIMET CTER) for the employment as a Research Technician at Istituto di Biometereologia di Firenze (FI). (Protocollo n. 0054200 del 11/08/2017).

Public contest ranking:

Ranked 4th (passed) in a CNR public contest for the employment as a Technologist at Istituto CNR Imati (GE). (Protocollo n. 0048073 del 23/07/2012).

## Publications

In proceedings:

*Alexandra Kokkinaki, Gwenaelle Moncoiffe, Dick Schaap, Enrico Boldrini, Fabrizio Papeschi and Stefano Nativi.*

**Rosetta Stone service: a success story of standards, controlled vocabularies and communication.**

Bollettino di Geofisica teorica ed applicata, Vol.59 - Supplement, ISSN 0006-6729, IMDIS 2018, Barcelona

In proceedings:

*Enrico Boldrini, Silvano Pecora, Martina Bussetini, Fabio Bordini and Stefano Nativi.*

**The Italian Cloud-based brokering Infrastructure to sustain Interoperability for Operative Hydrology**

Abstract PA53A-2226 presented at 2015 Fall Meeting, AGU, San Francisco, Calif.

Journal article:

*Peter Baumann, Paolo Mazzetti, Joachim Ungar, Roberto Barbera, Damiano Barboni, Alan Beccati, Lorenzo Bigagli, Enrico Boldrini, Riccardo Bruno, Antonio Calanducci, Piero Campalani, Oliver Clements, Alex Dumitru, Mike Grant, Pasquale Herzig, George Kakaletis, John Laxton, Panagiota Koltsida, Kinga Lipskoch, Alireza Rezaei Mahdiraji, Simone Mantovani, Vlad Merticariu, Antonio Messina, Dimitar Misev, Stefano Natali, Stefano Nativi, Jelmer Oosthoek, Marco Pappalardo, James Passmore, Angelo Pio Rossi, Francesco Rundo, Marcus Sen, Vittorio Sorbera, Don Sullivan, Mario Torrisi, Leonardo Trovato, Maria Grazia Veratelli and Sebastian Wagner.*

**Big data analytics for earth sciences: the earth server approach.**

International Journal of Digital Earth, 2015, DOI 10.1080/17538947.2014.1003106, ISSN 1753-8947

Journal article:

*Enrico Boldrini, Daniela Luzi, Stefano Nativi, and Fabrizio Pecoraro.*

**Harmonising CERIF and INSPIRE metadata models to support multidisciplinary data sharing.**

Int. J. Metadata, Semantics and Ontologies, Vol. 10, No. 2, 2015 pp 139-153, ISSN 1744-2621

*In proceedings:*

*Enrico Boldrini, Fabrizio Papeschi, Mattia Santoro, and Stefano Nativi.*

**Enabling interoperability in Geoscience with GI-suite.**

Geophysical Research Abstracts, Vol. 17, EGU 2015-12199, Vienna 2015, ISSN 1029-7006, 1607-7962

*In proceedings:*

*Daniel Fuka, Amy Collick, Charlotte MacAlister, Aaron Braeckel, Dawn Wright, Siri Jodha Khalsa, Enrico Boldrini, and Zachary Easton.*

**Brokering as a framework for hydrological model repeatability.**

Geophysical Research Abstracts, Vol. 17, EGU 2015-7897, Vienna 2015, ISSN 1029-7006, 1607-7962

*In proceedings:*

*Enrico Boldrini, Zachary Easton, Daniel Fuka, Jay Pearlman, and Stefano Nativi.*

**Brokering technologies to realize the hydrology scenario in NSF BCube.**

Geophysical Research Abstracts, Vol. 17, EGU 2015-12630, Vienna 2015, ISSN 1029-7006, 1607-7962

*In proceedings:*

*Enrico Boldrini, Fabrizio Papeschi, Mattia Santoro, Stefano Nativi.*

**Extending the GI Brokering Suite to Support New Interoperability Specifications.**

Abstract IN31D-3741 presented at 2014 Fall Meeting, AGU, San Francisco, Calif.

*In proceedings:*

*Siri-Jodha Khalsa, Stefano Nativi, Jay Pearlman, Françoise Pearlman, Mattia Santoro, Ruth Duerr, Enrico Boldrini, Steven Browdy.*

**Achievements in Advancing the EarthCube Cyberinfrastructure Vision.**

Abstract IN31D-3742 presented at 2014 Fall Meeting, AGU, San Francisco, Calif.

*In proceedings:*

*Enrico Boldrini, Daniela Luzi, Stefano Nativi, Fabrizio Pecoraro.*

**Integrating CERIF entities in a multidisciplinary e-infrastructure for environmental research data.**

Proceedings of the 12th International Conference on Current Research Information Systems (2014), Rome 2014, ISSN 18770509

*Book chapter:*

*Enrico Boldrini, Max Craglia, Paolo Mazzetti and Stefano Nativi.*

**The Brokering Approach for enabling collaborative scientific research.**

In Diviacco, Paolo, Peter Fox, Cyril Pshenichy, and Adam Leadbetter. "Collaborative Knowledge in Scientific Research Networks." 1-424, 2014, ISBN 978-1-4666-6567-5, DOI: 10.4018/978-1-4666-6567-5

In proceedings:

Paolo Mazzetti, Stefano Nativi, Mattia Santoro, and Enrico Boldrini.

**Implications of Big Data to Earth Science Data Analysis.**

Geophysical Research Abstracts, Vol. 16, EGU 2014-13855, Vienna 2014

In proceedings:

Yaxing Wei, Robert B. Cook, Fei Du, Aritra Dasgupta, Jorge Poco, Deborah N. Huntzinger, Christopher R. Schwalm, Enrico Boldrini, Mattia Santoro, Jay Pearlman, Françoise Pearlman, Stefano Nativi, Siri Jodha Singh Khalsa.

**Integrate Data into Scientific Workflows for Terrestrial Biosphere Model Evaluation through Brokers.**

Abstract IN53E-06 presented at 2013 Fall Meeting, AGU, San Francisco, Calif.

In proceedings:

Enrico Boldrini, Stefano Nativi, Dick M.A. Schaap.

**INSPIRE compliant international standards for the SeaDataNet marine metadata.**

Bollettino di Geofisica teorica ed applicata, Vol.54 - Supplement, ISSN 0006-6729, IMDIS 2013, Lucca

In proceedings:

Siri Jodha Khalsa, Mark Parsons, Lynn Yarmey, Ian Truslove, Jay Pearlman, and Enrico Boldrini.

**The Advanced Cooperative Arctic Data and Information Service (ACADIS), Integrated Research Infrastructures and Services to users: supporting excellence in a science for society.**

Geophysical Research Abstracts, Vol. 15, EGU 2013-10415-2, Vienna 2013, ISSN 1029-7006, 1607-7962

In proceedings:

Mattia Santoro, Yaxing Wei, Enrico Boldrini, Jay Pearlman, Robert B. Cook, and Stefano Nativi.

**Brokering Services to Evaluate, Visualize, and Analyze Terrestrial Biosphere Model Output and Observations.**

Geophysical Research Abstracts, Vol. 15, EGU 2013-7679, Vienna 2013, ISSN 1029-7006, 1607-7962

In proceedings:

Enrico Boldrini, Mattia Santoro, Fabrizio Papeschi, and Stefano Nativi.

**Data Access Services interoperability in the Geosciences by means of the GI-axis Brokering Framework.**

Geophysical Research Abstracts, Vol. 15, EGU 2013-7777, Vienna 2013, ISSN 1029-7006, 1607-7962

In proceedings:

Enrico Boldrini, Dick M. A. Schaap, and Stefano Nativi.

**Definition of an ISO 19115 metadata profile for SeaDataNet II Cruise Summary Reports and its XML encoding.**

Geophysical Research Abstracts, Vol. 15, EGU 2013-7701, Vienna 2013, ISSN 1029-7006, 1607-7962

In proceedings:

Ben Domenico, Stefano Nativi, Jennifer Boehnert, Enrico Boldrini, Marcos Hermida.



**Brokering Services for Real-time Weather Data and Climate Prediction Products Data Discovery and Access.**

Abstract IN21B-1475 presented at 2012 Fall Meeting, AGU, San Francisco, Calif.

*In proceedings:*

*Enrico Boldrini, Stefano Nativi, Mattia Santoro, Fabrizio Papeschi, Paolo Mazzetti.*

**GI-axe: an access broker framework for the geosciences.**

Abstract IN21B-1479 presented at 2012 Fall Meeting, AGU, San Francisco, Calif.

*In proceedings:*

*F. R. Salas, E. Boldrini, D. R. Maidment, S. Nativi, and B. Domenico.*

**Crossing the digital divide: an interoperable solution for sharing time series and coverages in Earth sciences.**

Nat. Hazards Earth Syst. Sci., 12, ISSN 1684-9981, 2012, [www.nat-hazards-earth-syst-sci.net/12/3013/2012/](http://www.nat-hazards-earth-syst-sci.net/12/3013/2012/)

*In proceedings:*

*E. Boldrini, B. Broeren, D. M. A. Schaap, S. Nativi, and G. M. R. Manzella.*

**Revision and documentation of the CDI metadata model as a ISO 19115 profile.**

Geophysical Research Abstracts Vol. 14, EGU2012-11036, 2012, EGU General Assembly 2012, ISSN 1029-7006, 1607-7962

*In proceedings:*

*E. Boldrini, F. Salas, D. R. Maidment, P. Mazzetti, M. Santoro, S. Nativi, and B. Domenico.*

**Bridging the gap between Hydrologic and Atmospheric communities through a standard based framework.**

Geophysical Research Abstracts Vol. 14, EGU2012-11270, 2012, EGU General Assembly 2012, ISSN 1029-7006, 1607-7962

*In proceedings:*

*M. Santoro, G. Dubois, M. Schulz, J.O. Skøien, S. Nativi, S. Peedell, and E. Boldrini.*

**Enhancements of the "eHabitat" Use Scenario in GEOSS StP.**

Geophysical Research Abstracts Vol. 14, EGU2012-10995, 2012, EGU General Assembly 2012, ISSN 1029-7006, 1607-7962

*In proceedings:*

*L. Bigagli, S. Nativi, M. Santoro, E. Boldrini, P. Mazzetti.*

**Monitoring of a Transport Infrastructure via a Sensor-enabled SDI.**

Proceedings of the 25th EnviroInfo Conference "Environmental Informatics", ISBN 978-3-8440-0451-9, pp. 426-435, Ispra, Italia, 5-7 October 2011

*In proceedings:*

*M. Santoro, S. Nativi, M. Craglia, E. Boldrini, L. Vaccari, F. Papeschi, L. Bigagli.*

**The EuroGEOSS Brokering Framework for Multidisciplinary Interoperability.**

Abstract IN54A-04 presented at 2011 Fall Meeting, AGU, San Francisco, Calif.

Master's Degree Thesis:*Enrico Boldrini.***Implementazione e ottimizzazione di funzionalità di persistenza in un catalogo distribuito per dati geospaziali.**

Tesi di laurea, Università degli Studi di Firenze, Aprile 2011

In proceedings:*Enrico Boldrini, Fabrizio Papeschi, Alessio Baldini, and Valerio Angelini.***Extensions to the GI-cat geospatial discovery broker.**

Geophysical Research Abstracts Vol. 13, EGU2011-3356, 2011, EGU General Assembly 2011, ISSN 1029-7006, 1607-7962

In proceedings:*Lorenzo Bigagli, Mattia Santoro, Enrico Boldrini, and Fabrizio Papeschi.***A Brokering Solution for Geospatial Resources Retrieval.**

Geophysical Research Abstracts Vol. 13, EGU2011-4309, 2011, EGU General Assembly 2011, ISSN 1029-7006, 1607-7962

In proceedings:*David R. Maidment, Fernando Salas, Enrico Boldrini, Ben Domenico, and Stefano Nativi.***Crossing the Digital Divide in the hydrology domain through standard based solutions.**

Geophysical Research Abstracts Vol. 13, EGU2011-3453-1, 2011, EGU General Assembly 2011, ISSN 1029-7006, 1607-7962

In proceedings:*Mattia Santoro, Fabrizio Papeschi, Enrico Boldrini, and Lorenzo Bigagli.***GI-axe – an ICT Solution for Sensor Data Processing.**

Geophysical Research Abstracts Vol. 13, EGU2011-11659, 2011, EGU General Assembly 2011, ISSN 1029-7006, 1607-7962

In proceedings:*L. Bigagli, S. Nativi, M. Santoro, E. Boldrini, F. Papeschi.***Applying geospatial standards to sensor-based transport infrastructures monitoring.**

Proceedings of Data Flow, from Space to Earth – Applications and interoperability, p. 93, March 2011, ISBN 9788889405154

Journal article:*S. Nativi, P. Mazzetti, M. Santoro, E. Boldrini, G. M. R. Manzella, and D. M. A. Schaap.***CDI/THREDDS interoperability in the SeaDataNet framework.**

Adv. Geosci., 28, 17-27, 2010, www.adv-geosci.net/28/17/2010/, doi:10.5194/adgeo-28-17-2010, ISSN 1680-7340

In proceedings:*Enrico Boldrini and the GI-cat Team.***A SOA broker solution for standard discovery and access services: the GI-cat framework.**

Geophysical Research Abstracts Vol. 12, EGU2010-12073-3, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Alessio Baldini, Enrico Boldrini, Mattia Santoro, Paolo Mazzetti.***GeoNetwork powered GI-cat: a geoportal hybrid solution.**

Geophysical Research Abstracts Vol. 12, EGU2010-11436, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Enrico Boldrini, Fabrizio Papeschi, Lorenzo Bigagli, Paolo Mazzetti.***Harvesting implementation for the GI-cat distributed catalog.**

Geophysical Research Abstracts Vol. 12, EGU2010-11935-1, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Dick M. A. Schaap, Enrico Boldrini, Arjen De Korte, Mattia Santoro, Giuseppe Manzella, Stefano Nativi.***Enabling conformity to international standards within SeaDataNet.**

Geophysical Research Abstracts Vol. 12, EGU2010-11864-1, 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Enrico Boldrini, Arjen De Korte, Mattia Santoro, Dick M. A. Schaap, Stefano Nativi, Giuseppe Manzella.***Definition of a CDI metadata profile and its ISO 19139 based encoding.**

Geophysical Research Abstracts Vol. 12, EGU2010-11779-1, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Fabrizio Papeschi, Boldrini Enrico, Paolo Mazzetti.***OpenSearch technology for geospatial resources discovery.**

Geophysical Research Abstracts Vol. 12, EGU2010-11447, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**Lorenzo Bigagli, Enrico Boldrini, Fabrizio Papeschi, Fabrizio Vitale.***A Reference Implementation of the OGC CSW EO Standard for the ESA HMA-T project.**

Geophysical Research Abstracts Vol. 12, EGU2010-11412-1, 2010, EGU General Assembly 2010, ISSN 1029-7006, 1607-7962

*In proceedings:**E. Boldrini, F. Papeschi, P. Mazzetti, L. Bigagli, F. Vitale, S. Nativi.***GI-cat extensions for OGC 06-131 and OGC 07-038 support.**

Geophysical Research Abstracts, Vol. 11, EGU2009-4172-7, EGU General Assembly 2009, ISSN 1029-7006, 1607-7962

*In proceedings:**L. Bigagli, N. Meier, E. Boldrini, and R. Gerlach.***Enabling the development of Community Extensions to GI-cat - the SIB-ESS-C case study.**

Geophysical Research Abstracts, Vol. 11, EGU2009-10298-2, EGU General Assembly 2009, ISSN

1029-7006, 1607-7962

*In proceedings:*

*F. Papeschi, E. Boldrini, L. Bigagli, P. Mazzetti.*

**GI-conf: A configuration tool for the GI-cat distributed catalog.**

Geophysical Research Abstracts, Vol. 11, EGU2009-4130-1, EGU General Assembly 2009, ISSN 1029-7006, 1607-7962

*In proceedings:*

*S. Nativi, L. Bigagli, P. Mazzetti, E. Boldrini, F. Papeschi.*

**GI-Cat: A Mediation Solution for Building a Clearinghouse Catalog Service.**

International Conference on Advanced Geographic Information Systems and Web Services, 2009. GEOWS '09, ISBN 978-0-7695-3527-2/09, IEEE, pp.68-74, 1-7 Feb 2009

*In proceedings:*

*L. Bigagli, E. Boldrini, P. Mazzetti, M. Santoro.*

**Distributed discovery services in heterogeneous federations.**

Geophysical Research Abstracts, Vol. 10, EGU2008-A-12197, Aprile 2008, ISSN 1029-7006, 1607-7962

*In proceedings:*

*E. Boldrini, S. Nativi, L. Bigagli, P. Mazzetti and E. O Tuama.*

**Mapping of GBIF concepts to the CSW ISO Application Profile.**

Geophysical Research Abstracts, Vol. 10, EGU2008-A-05230, Aprile 2008, ISSN 1029-7006, 1607-7962

*In proceedings:*

*S. Nativi, P. Mazzetti, L. Bigagli, U. Mattia, E. Boldrini.*

**Distributed Multi-interface Catalogue for Imagery Gridded and Coverage Data.**

EOS Transactions AGU, 88(52), Fall Meet. Suppl., Abstract IN44A-02, San Francisco, December 2007

*In proceedings:*

*S. Nativi, P. Mazzetti, L. Bigagli, E. Boldrini, V. Angelini, E. O Tuama, H. Saarenmaa, J. Kerr e S. J. Singh Khalsa.*

**A Pilot Project for Biodiversity and Climate Change Interoperability in the GEOSS Framework.**

Proceedings of TDWG (Biodiversity Information Standards) conference, Bratislava, Slovakia, pp.41-42, September 2007, ISBN 978-1-930723-71-9

*Online journal article:*

*Lorenzo Bigagli and Enrico Boldrini.*

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