

PERSONAL INFORMATION

Maria Teresa Artese



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Sex F | Date of birth 06/11/1965 | Nationality Italian

WORK EXPERIENCE

Nov 2016-now

Researcher CNR

IMATI CNR

- Research, technology transfer
Information system – computer science – online platform – complex multimedia information systems - intangible cultural heritage

2011-nov 2016

Researcher CNR

ITC - CNR

- Research, technology transfer, responsible of the research laboratory “Multimedia Information Systems”
Information system – computer science – information system – complex multimedia information systems - intangible cultural heritage

2000-2011

Research fellow CNR

ITIM-CNR, ITC-CNR

- Analysis, multimedia developing, database management,
Information system – computer science – multimedia information retrieval

2002 /2003/2004

Teacher

Università degli Studi di Milano-Bicocca
Piazza Ateneo Nuovo, 1 20126 Milano

Teaching
“professore a contratto” - Database and information systems class

1991-2000

Software analyst

TAI S.r.l.
Milano

Functional analysis, software development, installation, course operators, preparation of the technical documentation and the user manual, technical support to the customers after installation.

EDUCATION AND TRAINING

1984-1990

Master in Computer Science

Università degli Studi di Milano

- Computer Science, Information Processing, Software development

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2
French	A1	A1	A1	A1	A1

Communication skills

- the acquisition of skills and competences is occurring in the course of the entire research activity performed almost always in collaboration, often in international context.
- dissemination of research to different audiences in a range of formats from peer-reviewed papers, to conference presentations (academic projects)

Organisational / managerial skills

She has worked in the years as researcher, and, since 2000, has been working on research projects on the design and development of information system for the management of the intangible cultural heritage of the Lombardy Region - AESS (Archive of Ethnography and Social History) and innovative software tools for the management, research and development of multimedia information through a website. Her research has focused on information systems and the development of new methodologies and algorithms for multimedia data fruition on the web. On these topics she has several national and international publications, and she has been working in national and international research projects.

Job-related skills

Excellent knowledge of the database design techniques and query languages. Excellent knowledge of information retrieval systems. Excellent knowledge of DBMS Oracle, Microsoft Access, MySql and MongoDB. Excellent knowledge of techniques and methodologies for the design of web sites, including database-driven, programming languages as PHP, HTML 5.0, Javascript, JQuery, C++, PL/SQL, SQL language, Angular, Bootstrap 4.0.

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	PROFICIENT USER	PROFICIENT USER	PROFICIENT USER	PROFICIENT USER	PROFICIENT USER

Driving licence B (Italy)

ADDITIONAL INFORMATION

Projects

- Participation to the project CookIT (from 2017), carried out in collaboration with the University of Milano Bicocca.
- Participation to the project I-ZEB (OR1 – Resp. Silvia Pietralunga) cooperation agreement between the Lombardy Region and CNR (2017-2019).
- Responsible for the ITC Project funded by the Museum of Contemporary Photography in Cinisello Balsamo. The activity aims to the creation of a database, with textual information and images of the photographs preserved at the Museum and the development of a query interface and data visualization, using innovative tools for use on the web (2016).
- Participation to the ITC cooperation agreement between the Lombardy Region - General Directorate Culture, Identity and

Autonomy of Lombardy - and Consiglio Nazionale Delle Ricerche - I.T.C. for implementation, updating and development of new information tools for the creation and dissemination of digitized data to archive media assets AESS of Regione Lombardia and the definition of shared open source tools with the network of eco-museums (2016-2017).

- Participation to the project MIDB (from 2015), carried out in collaboration with the University of Milano Bicocca.
- Responsible for the update activity of the AESS Database through the definition of automatic and semi-automatic tools for data import-export related to intangible cultural heritage (2015).
- Participation to a WP of the Integrate Project (2013-2015).
- Participation to the ITC Project "E.CH.I.2 Ethnography Italo Swiss" 2007-2013 Interreg Italy - Switzerland Strategic (2014-2015)
- Participation to the ITC "Good50x70" project, carried out in collaboration with the cultural association Good Design and the University of Milan Bicocca (2013-2015).
- Participation to the ITC Project "E.CH.I. Ethnographies Italo Swiss "2007-2013 Interreg Italy - Switzerland Strategic (2009-2013)
- Participation to the ITC of the project "Development and integration of innovative data processing tools for the realization of Reil - Lombardy Intangible Heritage Register" funded by the Lombardy Region (2009-2011).
- Participation to the project "Archives of the '900" funded by the Cariplo Foundation, which aims to enhance the demo-ethno-anthropological interest archives preserved through new use and navigation tools (2008-2010) .
- Participation to the project "Updating of the photo database and definition of new instruments for research", funded by the Museum of Contemporary Photography Cinisello Balsamo (2007 - 2009).
- Participation to the project "Say - Do - Watch", funded by Cariplo Foundation, which aims to provide new tools for searching and browsing of interest demo archives -etno-anthropological preserved. It also intends to offer a further opportunity to do research for sounds and images (2007-2008).
- Participation to the "Project GIO-CAR – Giochi d'archivio" funded by the Cariplo Foundation, which aims to improve and increase the accessibility to documents of demo-ethno-anthropological interest stored, opening also funds and private collections and create paths and consultation tools and interactive learning. It also intends to offer a further opportunity to do research for sounds and images ((2005-2006)
- Participation to the Interreg IIIA Project "LTL Luoghi della tradizione e del lavoro. - farmer work and craftsman in the research of Paul Scheuermeier in Lombardy and in Southern Switzerland" with the task to design an information system for cataloging and dissemination intangible Cultural Heritage via the web (2006-2007).
- Participation to the subproject 3 "Local service centers" of the EU project DAEDALUS Delivery of Mediterranean Destination Links in Unified Environments - EUMEDIS 311 (2005-2006).
- Participation to the AESS project (Archivio di Etnografia e Storia Sociale) funded the Lombardy Region, as part of the project for the definition and implementation of an information system, to make available multimedia documents (text, audio, images and video) through the web (2003-2005).
- Participation to the project "Support to the implementation activities of the central database SIRBeC, the spread of information on the network and integration with other archive", for the construction of the central database of SIRBeC (Regional Information System Cultural Heritage), funded by the Lombardy Region (2002-2003).
- Participation to the ITIM-CNR / project on Cultural Heritage entitled "Methods and tools for creating multimedia archives" (2000-2001).

Summary of the research activities carried out

- multimedia information systems on the Internet and innovative tools to visualize, use and search multimedia data;
- multimedia information systems applied to intangible cultural heritage;
- collaborative platform for managing project / legislative documents and related media attachments: back-end and front-end, search tools, browsing, user management;
- collaborative systems for the management of terminological resources and their integration with information systems and made with public databases available on the network.

Invited talk

- 2018 Information Officers Meeting For Safeguarding Ich In The Asia-Pacific Region, organized by ICHCAP, Soul (Korea)

Maria Teresa Artese publications

A. portal and web sites

- <http://arm.mi.imati.cnr.it/querylab> QueryLab: web portal to navigate among different intangible cultural heritage collections at the same time
- <http://arm.mi.imati.cnr.it/dinamica> DInsect, web site for visualization of data related to the phenological and demographic development of insects
- <http://zeb.mi.imati.cnr.it> I-ZEB Portal, multilingual collaborative platform for the I-ZEB Project
- <http://arm.mi.imati.cnr.it/cookIT> CookIT portal, collaborative platform for the collection of italian traditional recipes
- <http://arm.mi.imati.cnr.it/midb> Midb portal, search engine with traditional query keys and innovative mood and sensation keys

- <http://database.itc.cnr.it/integrate> web site for Integrate Project
- <http://arm.mi.imati.cnr.it/thesaurus/> prototype website for querying and browsing in the three dictionaries MultiWordNet, AGROVOC and DBPedia and LusTRE
- <http://www.intangiblesearch.eu> website of intangible cultural heritage inventory developed under the project E.CH.I.
- <http://aess.itc.cnr.it>, portal of Archive of Ethnography and Social History
- <http://aess.itc.cnr.it/ricerca> development of new research methods for multimedia data in the AESS database
- http://aess.itc.cnr.it/data_entry online data entry system for the multilingual and multimedia AESS database
- <http://arm.mi.imati.cnr.it/50x70> web site for search in the Archives Good 50x70, collection of posters to promote social campaigns
- <http://mfc.itc.cnr.it/home.htm> site of the Museum of Contemporary Photography in Cinisello (MI), the site allows the consultation of the photo card in the archive of the museum and has been developed in collaboration with graphics experts and catalogers of the museum.
- http://aess.itc.cnr.it/percorsi/canto_narrativo/home. web guided tour entitled "Canto Narrative", one of the most popular genres of European ethno-musical tradition.
- <http://aess.itc.cnr.it/percorsi/strumenti/home.htm> web guided tour entitled "fife": it presents the musical history of this particular and extraordinary tradition.

B. International journal

- [B1] R. Schettini, A. Della Ventura, M.T. Artese, Color specification by visual interaction, *The Visual Computer*, Vol. 9(3), 1992. (SCI 8041) pp. 143-150 (2008) 1.061.
- [B2] Artese, Maria Teresa, and Isabella Gagliardi. "Multilingual Specialist Glossaries in a Framework for Intangible Cultural Heritage." *International Journal of Heritage in the Digital Era* 3.4 (2014): 657-668.
- [B3] Artese, Maria Teresa, and Isabella Gagliardi. "A Multimedia System for the Management of Intangible Cultural Heritage " *International Journal of Heritage in the Digital Era* 4.2 (2015) : 149–164.
- [B4] Artese, Maria Teresa, Gianluigi Ciocca, and Isabella Gagliardi. "Evaluating perceptual visual attributes in social and cultural heritage web sites." *Journal of Cultural Heritage* 26 (2017): 91-100.
- [B5] Artese, Maria Teresa, and Isabella Gagliardi. "Inventorying Intangible Cultural Heritage on the Web: a Life-cycle Approach." *International Journal of Intangible Heritage* 12 (2017): 112-138.

C. International books and conference

- [C1] Ciocca, G., Colombo, A., Schettini, R., Gagliardi, I., & Artese, M.T. (2011). *Intangible Heritage Management and Multimodal Navigation*. In G. Styliaras, D. Koukopoulos, & F. Lazarinis (a cura di), *Handbook of Research on Technologies and Cultural Heritage: Applications and Environments* (pp. 85-118). IGI Global.
- [C2] Maria Teresa Artese, Isabella Gagliardi: "Cataloging Intangible Cultural Heritage on the Web". in *EuroMed 2012*: 676-683.
- [C3] Maria Teresa Artese, Simone Bianco, Isabella Gagliardi, Francesca Gasparini, Audio stream classification for multimedia database search, in *IS&T/SPIE Electronic Imaging*, 2013.
- [C4] Maria Teresa Artese, Isabella Gagliardi (2013) *Online Content-Based Retrieval And Fruition With Multiwordnet: An Experimentation*, PROCEEDINGS 6th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. III - Sessions D, E, F Museums; Cultural identity; Sustainable development, Athens, Greece 22 – 25 October 2013.
- [C5] Artese Maria Teresa, Biocca Luigi, Buono Paolo, Gagliardi Isabella, Lerario Antonella, Maiellaro Nicola, Paraciani Nicolò (2013) *MU.S.A. - MUst See Advisor' project: a cultural heritage booster*, in Proc. 6th International Congress on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin" VOL. III - Sessions D, E, F Museums; Cultural identity; Sustainable development, Athens, Greece 22 – 25 October 2013.
- [C6] Maria Teresa Artese, Gianluigi Ciocca, Isabella Gagliardi (2014) *Good 50x70 Project: A portal for Cultural And Social Campaigns* , In *Archiving 2014 Conference, Final Program and Proceedings*, IS&T, pp. 213-218, 2014.
- [C7] Maria Teresa Artese, Isabella Gagliardi (2014) *Framework for UNESCO Intangible Cultural Heritage*, In *Archiving 2014 Conference, Final Program and Proceedings*, IS&T, pp. 144-150, 2014.
- [C8] Artese, M. T., & Gagliardi, I. (2014). *Multilingual Specialist Glossaries in a Framework for Intangible Cultural Heritage*. In *Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection* (pp. 767-776). Springer International Publishing.

- [C9] Artese, M. T., & Gagliardi, I. (2014). A Multimedia System for the Management of Intangible Cultural Heritage, in EuroMed2014, Lemessos, Cyprus, 3-8 November 2014.
- [C10] MT Artese, I Gagliardi (2015) Carousel Rides-New Tools for Navigation in Intangible Cultural Heritage, International Congress on Digital Heritage IEEE – ed. Gabriele Guidi and Roberto Scopigno and Juan Barceló, IEEE, ISBN 978-1-5090-0048-7.
- [C11] Gagliardi, Isabella and Artese, Maria Teresa (2015) Create Your Menu - Discovering Traditional Recipes, International Congress on Digital Heritage IEEE – ed. Gabriele Guidi and Roberto Scopigno and Juan Barceló, IEEE, ISBN 978-1-5090-0048-7.
- [C12] Artese, M. T., & Gagliardi, I. (2015). UNESCO Intangible Cultural Heritage Management on the Web. In M. Khosrow-Pour, D.B.A. (Ed.), Encyclopedia of Information Science and Technology, Third Edition (pp. 5334-5347). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-5888-2.ch527.
- [C13] Artese, M. T., & Gagliardi, I. (2018, June). What is this painting about? Experiments on Unsupervised Keyphrases Extraction algorithms. In IOP Conference Series: Materials Science and Engineering (Vol. 364, No. 1, p. 012050). IOP Publishing.
- [C14] M.T. Artese, I. Gagliardi (2018, November) Integrate Inventories to Develop Common Storytelling Tools. In The 20th International Research Conference Proceedings, London.
- [C15] Gagliardi I., Artese M.T. (2019) Unsupervised Automatic Keyphrases Extraction Algorithms. In: Debruyne C., Panetto H., Guédria W., Bollen P., Ciuciu I., Meersman R. (eds) On the Move to Meaningful Internet Systems: OTM 2018 Workshops. OTM 2018. Lecture Notes in Computer Science, vol 11231. Springer, Cham.
- [C16] Artese M.T., Gagliardi I. (2019) Local and Open ICH Archives: Developing Integration and Interaction Tools. In: Debruyne C., Panetto H., Guédria W., Bollen P., Ciuciu I., Meersman R. (eds) On the Move to Meaningful Internet Systems: OTM 2018 Workshops. OTM 2018. Lecture Notes in Computer Science, vol 11231. Springer, Cham.
- [C17] Artese, M. T., & Gagliardi, I. (2019, May). Cluster-based Unsupervised Automatic Keyphrases Extraction algorithms: experimentations on Cultural Heritage datasets. In Archiving Conference (Vol. 2019, No. 1, pp. 156-160). Society for Imaging Science and Technology.
- [C18] Artese, M. T., & Gagliardi, I. (2019, May). Preprocessing pipeline for Italian Cultural Heritage multimedia datasets. In Archiving Conference (Vol. 2019, No. 1, pp. 81-85). Society for Imaging Science and Technology.
- [C19] Artese, M. T., Ciocca, G., & Gagliardi, I. (2019). CookIT: A Web Portal for the Preservation and Dissemination of Traditional Italian Recipes. In International Journal of Business, Human and Social Sciences, vol. 13 (2), pp 1-6, <https://doi.org/10.5281/zenodo.2571946>.

D. Italian journal, proceedings

- [D1] B. Aliprandi, M.T. Artese, B.R. Barricelli, I. Gagliardi, M. Padula, P. Pagliarulo, P.L. Scala, S. Sensolo, S. Zuffi “Applicazioni informatiche a supporto dell’innovazione di processi/prodotti della costruzione”, L’Edilizia “Speciale ITC 2006 Ricerca e Sperimentazione”, n. 147, 2006, pp. 46-50.
- [D2] I. Gagliardi, M.T. Artese, “Presentazione del sito web Museo di Fotografia Contemporanea”, giornata “Archivi Fotografici Italiani On-Line” Seminario di studi, a cura di Gabriella Guerici, presso il Museo di Fotografia Contemporanea, sala biblioteca, 25 May 2006.
- [D3] Gagliardi, M.T. Artese, “Presentazione finale del Progetto Cariplo”, ARCHIEXPO, I edizione Archivi fotografici, audiovisivi, multimediali, Centro Congressi Le Stelline, Sala Volta, Milano, 13 December 2006.
- [D4] Gagliardi, M.T. Artese, “Il sito web realizzato per il Museo di Fotografia Contemporanea”, presentato a ARCHIEXPO”, I edizione, Sistemi documentari integrati: tra arte e scienza, Centro Congressi Le Stelline, Sala Volta, Milano, 13-15 December 2006.
- [D5] Gagliardi, M.T. Artese, “Presentazione dei risultati del Progetto Cariplo”, Le biblioteche su misura, Archivi, Biblioteche, Musei e Patrimonio culturale. Programmi e Realizzazioni della Regione Lombardia, Palazzo delle Stelline, Milano, 10 March 2006.
- [D6] M.T. Artese, I. Gagliardi, R. Schettini (2009) Ricerca e fruizione di beni culturali immateriali, L’Edilizia 2009.
- [D7] Maria Teresa Artese, Isabella Gagliardi (2009), Museo di Fotografia Contemporanea in Rete , L’Edilizia 2009.
- [D8] Maria Teresa Artese, Isabella Gagliardi (2009), AESS: Archivio etnografico multimediale in rete, L’Edilizia 2009.
- [D9] Artese MT, G. Ciocca, A. Colombo, I. Gagliardi, R. Schettini, (2009) “Intangible heritage management and multimodal navigation”, Il linguaggio delle biblioteche digitali, Ravenna 16 e 17 ottobre 2009.
- [D10] Artese MT, G. Ciocca, A. Colombo, I. Gagliardi (2009) AESS: Archivio etnografico multimediale in rete, Il linguaggio delle biblioteche digitali, Ravenna 16 e 17 ottobre 2009.

- [D11] I. Gagliardi, M.T. Artese (2010) I progetti ECHI e REIL – Strumenti di fruizione e valorizzazione dei Beni Culturali Immateriali della Regione Lombardia in L'Edilizia (Milano) 2010.
- [D12] I. Gagliardi, M.T. Artese (2011) I Beni Culturali immateriali patrimonio dell'Unesco sul web in L'Edilizia (Milano) 2011.
- [D13] I. Gagliardi, M.T. Artese (2012) Strumenti informatici a supporto della gestione dei documenti e dei lessici specialistici in edilizia in L'Edilizia (Milano) 2012.
- [D14] Giovanna Aracri, Maria Teresa Artese, Antonietta Folino, Isabella Gagliardi, Elisabetta Oliveri (2012) Un glossario per la divulgazione del sapere nel fotovoltaico in XXII Convegno Ass.I.Term "Comunicare in Europa. Lessici istituzionali e terminologie specialistiche", Salerno, 2012 .
- [D15] Maria Teresa Artese, Isabella Gagliardi (2012) Il glossario delle tecnologie solari: una proposta di sviluppo collaborativo Vita e Pensiero, Milano (Italia) in Costruire un glossario: la terminologia dei sistemi fotovoltaici, 2012.
- [D16] Artese, Maria Teresa, and Isabella Gagliardi. "Terminologia agroalimentare del Patrimonio Immateriale AESS: un'applicazione informatica per la strutturazione dei termini attraverso lessici e thesauri disponibili online." *La terminologia dell'agroalimentare* 10 (2015): 45.

E. Project report (in Italian)

- [E1] EUMEDIS-311 – DAEDALUS: DELIVERY OF MEDITERRANEAN DESTINATION LINKS IN UNIFIED ENVIRONMENTS, Italian contribution to the Sub-project "Content organization and delivery" M.T. Artese, B. Zonta, A. Della Ventura, June 2005.
- [E2] I. Gagliardi, M.T. Artese (2010) Azioni pilota per lo sviluppo rurale integrato e la rivitalizzazione del territorio in Bosnia Erzegovina. Cap. 2182, AID n. 8971/01/2, Scelta, installazione, personalizzazione e uso di un wiki di supporto alla catalogazione.
- [E3] I. Gagliardi, M.T. Artese (2010) Final report PROGETTO CARIPLO Archivi multimediali del 900. I luoghi del lavoro.
- [E4] I. Gagliardi, M.T. Artese (2015) Final report PROGETTO ECHI2 – comunicare ICH WEB.

F. CD-Rom (in Italian)

- [F1] "Restoration and consolidation of Rocca di San Giorgio", presents the restoration project carried out on the Rock of San Giorgio in Orzinuovi, Brescia. (May 2002).
- [F2] "Martinengo" relating to the restoration of the church "St. Mary the Crowned Martinengo (BG) ", a particular church because it still preserves the partition wall, then pulled down in almost all the churches. Documenting the restoration work carried out in the church, comparing the situation before, during and after restoration, through photographs, videos and project boards. Also highlighted is the relief of degradation and propose actions performed through a guided tour to the environments. (May 2001).
- [F3] "FRISL - Multimedia Information System", developed for the Lombardy Region, Service Museums and Cultural Heritage, on archiving and keyword search of data on the "Projects FRISL", restoration of cultural heritage projects funded by Lombardy Region. These projects include images and data storage for the restoration job description, and the historical and architectural description of the site. (May 2000).
- [F4] "Electoral Consultations", the software package for the collection and polling data management for the Prefecture of Pavia. The software allows the inclusion of data for various types of elections as a referendum, local elections, European and regional, also allowing the analysis of the election and during the insertion of the data at the end of the poll (April 2000).
- [F5] "Architectural and Environmental Heritage of the Milan Province", the consultation program carried out for the Province of Milan, on the boards, maps and photographs of the architectural and environmental heritage of the Province of Milan and the Lombardy capital. The CD-Rom is attached to "the plan Notebooks for the Milan metropolitan area n. 3 " (March 1999).
- [F6] "Donation Galeazzo Cora", archive disclosure of data and photographic images of the collection "Galeazzo Cora" property of the International Museum of Ceramics in Faenza. The CD-ROM has been realized with the support of the CNR Project "Cultural Heritage" (January 1999).
- [F7] "Ancient fabrics", edited by C. Buss, multimedia catalog on CD-Rom, Milano 1998, Published by the Museo Poldi Pezzoli in Milan, was awarded the "Compasso d'Oro" for 1998. It is a media library for research through visual indicators of ancient fabrics of the Poldi

Pezzoli Museum collection. The archive includes photographs of tissues and related historical data sheets. The software was commissioned by the Museum to allow viewing of the collection of tissues, too fragile to be exposed to the public (June 1998).

- [F8] "Inside the Box", a game that aims to teach the techniques of recycling of materials to the kids. The product has been commissioned by the COOP Supermarket which also oversaw the distribution in schools (June 1997).