



Consiglio Nazionale delle Ricerche



Istituto di Scienza e Tecnologie  
dell'Informazione "A. Faedo"



# ISTI Open Portal: uno strumento “a servizio” dell’Open Access

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GenOA week 2022  
**Biblioteche per l'Open  
Science**  
10 novembre 2022

## Motivazioni e contesto

- Adesione ai principi dell'Open Science e dell'Open Access.
- Necessità di rispettare i requisiti richiesti dai progetti finanziati.
- Archivio istituzionale CNR vs repository open access.
- Esigenza di personalizzare la visualizzazione dei prodotti ISTI.
- Evitare duplicazioni nella gestione dei prodotti.

# Policy Open Access dell'ISTI

L'ISTI fa propri i principi dell'Open Science e dell'Open Access e si impegna a promuovere la libera disseminazione in rete dei prodotti della ricerca dell'Istituto.

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# Workflow



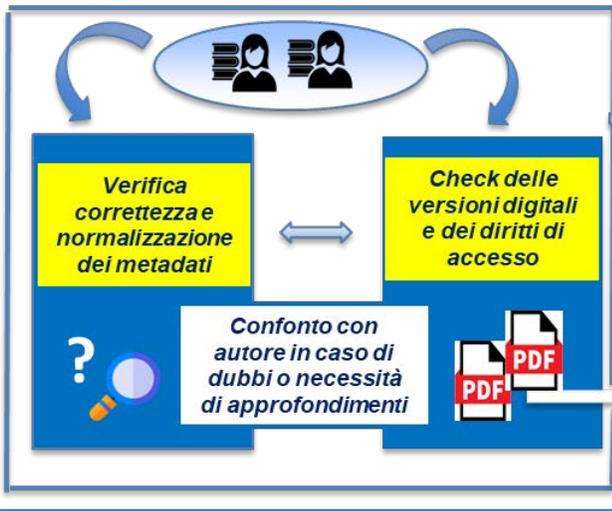
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deposito

People – Archivio istituzionale CNR



Notifica inserimento prodotto

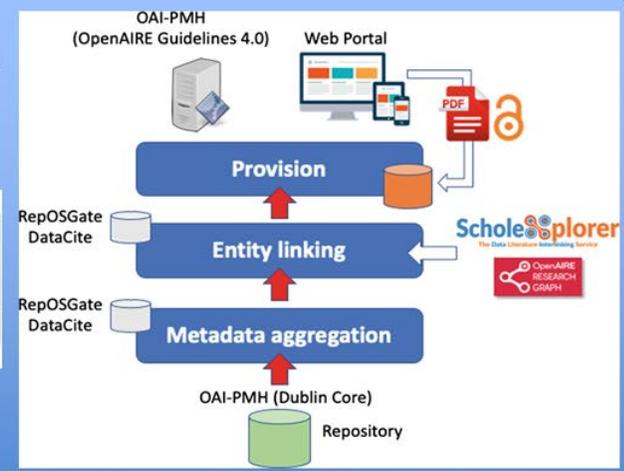
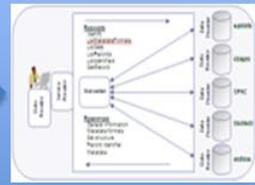


People portale pubblico



Record bibliografico

RepOSGate



Artini, M., Candela, L., Manghi, P., Giannini, S. *RepOSGate: Open Science Gateways for Institutional Repositories*. In: IRCDL 2020. Springer, 2020.

[https://doi.org/10.1007/978-3-030-39905-4\\_15](https://doi.org/10.1007/978-3-030-39905-4_15)

ISTI FTP server



# Homepage

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2022 Journal article Open Access

### Representation of socio-historical context to support the authoring and presentation of multimodal narratives: the Mingei online platform

Partarakis N., Doulgeraki P., Karuzaki E., Adami I., Ntoa S., Metilli D., Bartalesi V., Meghini C., Marketakis Y., Kaptanidi D., Theodoridou M., Zabulis X.

In this article, the Mingei Online Platform is presented as an authoring platform for the representation of social and historic context encompassing a focal topic of interest. The proposed representation is employed in the contextualised presentation of a given topic, through documented narratives t... [\[show more\]](#)

Source: Journal on computing and cultural heritage (Online) 15 (2022): 1-26. doi:10.1145/3465556

DOI: 10.1145/3465556

Project(s): Mingei

Metrics: \* PlumX Metrics Citations 9

See at: [ISTI Repository](#) | [dl.acm.org](#) | [CNR ExploRA](#)

2022 see details Access

Comparing the performance of Hebbian against backpropagation learning using convolutional neural networks

Lagani G., Falchi F., Gennaro C., Amato G.

In this paper, we investigate Hebbian learning strategies applied to Convolutional Neural Network (CNN) training. We consider two unsupervised learning approaches, Hebbian Winner-Takes-All (HWTa), and Hebbian Principal Component Analysis (HPCA). The Hebbian learning rules are used to train the layer... [\[show more\]](#)

Source: Neural computing & applications (Print) (2022). doi:10.1007/s00521-021-06701-4

DOI: 10.1007/s00521-021-06701-4

Project(s): AI4EU, AI4Media

Metrics: \* PlumX Metrics Altmetric 2 Citations 6

See at: [ISTI Repository](#) | [link.springer.com](#) | [CNR ExploRA](#)

2022 Conference article Open Access

### AIMH Lab for Trustworthy AI

Messina N., Carrara F., Cocomini D., Falchi F., Gennaro C., Amato G.

In this short paper, we report the activities of the Artificial Intelligence for Media and Humanities (AIMH) laboratory of

Language operator: and / or

- English (123)

Date operator: and / or

- 2022 (64)
- 2021 (50)
- 2020 (9)

Rights operator: and / or

- Open Access (112)
- Unknown (8)
- Restricted (2)
- Embargo (1)

the ISTI-CNR related to Trustworthy AI. Artificial Intelligence is becoming more and more pervasive in our society, controlling recommendation systems in social platforms as wel... [\[show more\]](#)

Source: Ital-IA 2020 - Workshop su AI Responsabile ed Affidabile, Online conference, 10/02/2022

See at: [ISTI Repository](#) | [CNR ExploRA](#) | [www.ital-ia2022.it](#)

2022 Conference article Open Access

### AIMH Lab for Cybersecurity

Vairo C., Cocomini D. A., Falchi F., Gennaro C., Massoli F. V., Messina N., Amato G.

In this short paper, we report the activities of the Artificial Intelligence for Media and Humanities (AIMH) laboratory of the ISTI-CNR related to Cy-bersecurity. We discuss about our active research fields, their applications and challenges. We focus on face recognition and detection of adversarial... [\[show more\]](#)

Source: Ital-IA 2022 - Workshop su AI per Cybersecurity, 10/02/2022

See at: [ISTI Repository](#) | [CNR ExploRA](#) | [www.ital-ia2022.it](#)

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### AIMH Lab for Healthcare and Wellbeing

Di Benedetto M., Carrara F., Ciampi L., Falchi F., Gennaro C., Amato G.

In this work we report the activities of the Artificial Intelligence for Media and Humanities (AIMH) laboratory of the ISTI-CNR related to Healthcare and Wellbeing. By exploiting the advances of recent machine learning methods and the compute power of desktop and mobile platforms, we will show how a... [\[show more\]](#)

Source: Ital-IA 2022 - Workshop AI per la Medicina e la Salute, Online conference, 10/02/2022

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# La pagina di un prodotto

Metadati

Metriche

Informazioni complementari

2022 Journal article Open Access

## Drivers, barriers and impacts of digitalisation in rural areas from the viewpoint of experts

Ferrari A., Bacco M., Gaber K., Jedlitschka A., Hess S., Kaipainen J., Koltsida P., Toi E., Brunori G.

Software Engineering Requirements Engineering Sustainability requirements Interviews Digitalisation  
Empirical study Agriculture Forestry Rural areas Drivers Barriers Impacts

[Context] The domain of rural areas, including rural communities, agriculture, and forestry, is going through a process of deep digital transformation. Digitalisation can have positive impacts on sustainability in terms of greater environmental control, and community prosperity. At the same time, it can also have disruptive effects, with the marginalisation of actors that cannot cope with the change. When developing a novel system for rural areas, requirements engineers should carefully consider the specific socio-economic characteristics of the domain, so that potential positive effects can be maximised, while mitigating negative impacts. [Objective] The goal of this paper is to support requirements engineers with a reference catalogue of drivers, barriers and potential impacts associated to the introduction of novel ICT solutions in rural areas. [Method] To this end, we interview 30 cross-disciplinary experts in digitalisation of rural areas, and we analyse the transcripts to identify common themes. [Results] According to the experts, main drivers are economic, with the possibility of reducing costs, and regulatory, as institutions push for more precise tracing and monitoring of production; barriers are the limited connectivity, but also distrust towards technology and other socio-cultural aspects; positive impacts are socio-economic (e.g., reduction of manual labor, greater productivity), while negative ones include potential dependency from technology, with loss of hands-on expertise, and marginalisation of certain actors (e.g., small farms, subjects with limited education). [Conclusion] This paper contributes to the literature with a domain-specific catalogue that characterises digitalisation in rural areas. The catalogue can be used as a reference baseline for requirements elicitation endeavours in rural areas, to support domain analysis prior to the development of novel solutions, as well as fit-gap analysis for the adaptation of existing technologies.

Source: Information and software technology 145 (2022). doi:10.1016/j.infsof.2021.106816  
Publisher: Butterworth Scientific, Guldford, Regno Unito

**Metrics**

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9  
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8 Recent citations  
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# Metadati

Tipologia prodotto

2022

Journal article

Open Access

## Drivers, barriers and impacts of digitalisation in rural areas from the viewpoint of experts

Ferrari A., Bacco M., Gaber K., Jedlitschka A., Hess S., Kaipainen J., Koltsida P., Toli E., Brunori G.

Software Engineering

Requirements Engineering

Sustainability requirements

Interviews

Digitalisation

Empirical study

Agriculture

Forestry

Rural areas

Drivers

Barriers

Impacts

[Context] The domain of rural areas, including rural communities, agriculture, and forestry, is going through a process of deep digital transformation. Digitalisation can have positive impacts on sustainability in terms of greater environmental control, and community prosperity. At the same time, it can also have disruptive effects, with the marginalisation of actors that cannot cope with the change. When developing a novel system for rural areas, requirements engineers should carefully consider the specific socio-economic characteristics of the domain, so that potential positive effects can be maximised, while mitigating negative impacts. [Objective] The goal of this paper is to support requirements engineers with a reference catalogue of drivers, barriers and potential impacts associated to the introduction of novel ICT solutions in rural areas. [Method] To this end, we interview 30 cross-disciplinary experts in digitalisation of rural areas, and we analyse the transcripts to identify common themes. [Results] According to the experts, main drivers are economic, with the possibility of reducing costs, and regulatory, as institutions push for more precise tracing and monitoring of production; barriers are the limited connectivity, but also distrust towards technology and other socio-cultural aspects; positive impacts are socio-economic (e.g., reduction of manual labor, greater productivity), while negative ones include potential dependency from technology, with loss of hands-on expertise, and marginalisation of certain actors (e.g., small farms, subjects with limited education). [Conclusion] This paper contributes to the literature with a domain-specific catalogue that characterises digitalisation in rural areas. The catalogue can be used as a reference baseline for requirements elicitation endeavours in rural areas, to support domain analysis prior to the development of novel solutions, as well as fit-gap analysis for the adaptation of existing technologies.

**Source:** Information and software technology 145 (2022). doi:10.1016/j.infsof.2021.106816

**Publisher:** Butterworth Scientific,, Guildford , Regno Unito

Diritti di accesso al file secondo la disponibilità in rete della versione migliore ad accesso aperto e/o in ISTI repository

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@article{oai:it.cnr:prodotti:461224,  
  title = {Drivers, barriers and impacts of digit  
  author = {Ferrari A. and Bacco M. and Gaber K.  
  publisher = {Butterworth Scientific,, Guildford  
  doi = {10.1016/j.infsof.2021.106816},  
  journal = {Information and software technology},  
  volume = {145},  
  year = {2022}  
}
```

**CNR authors and affiliations**

**CNR authors**  
Bacco, Felice Manlio  
Ferrari, Alessio

**Laboratories**  
Wireless Networks (2002-ongoing)  
Formal Methods and Tools (2002-ongoing)

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**Projects (via OpenAIRE)**

DESIRA  
Digitisation: Economic and Social Impacts in Rural Areas



File trasferiti dal personale della biblioteca corrispondenti alle versioni del lavoro consentite dall'editore



Recupero dei progetti a cui il lavoro è correlato



# Informazioni complementari - 2

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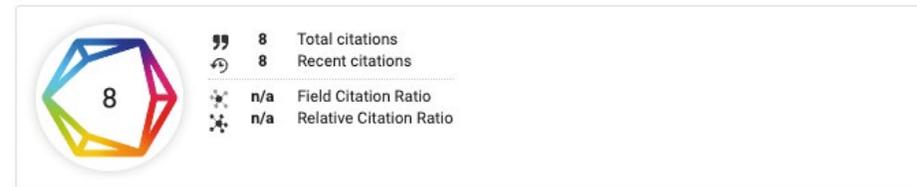
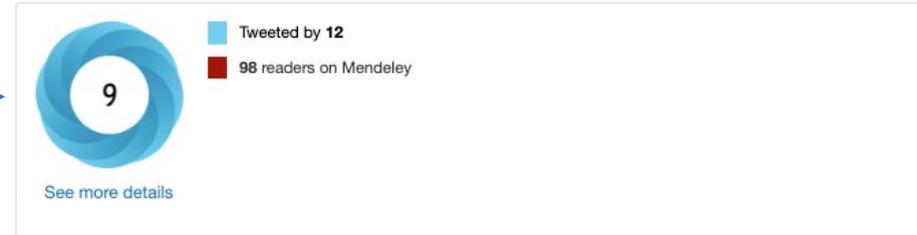
Possibilità di reperire il dataset se disponibile in rete



# Metriche

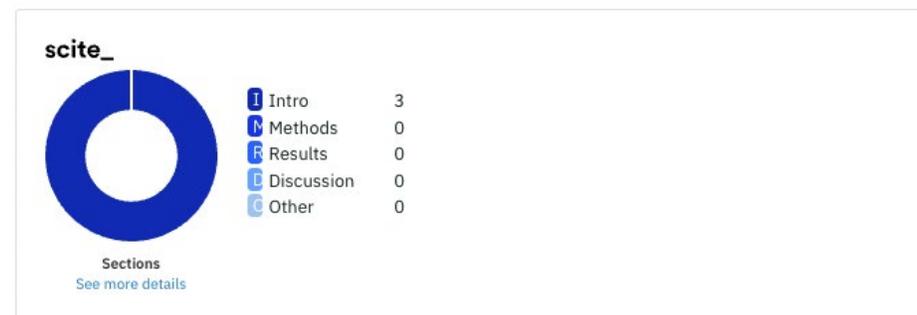
Altmetric

## Metrics



Dimensions

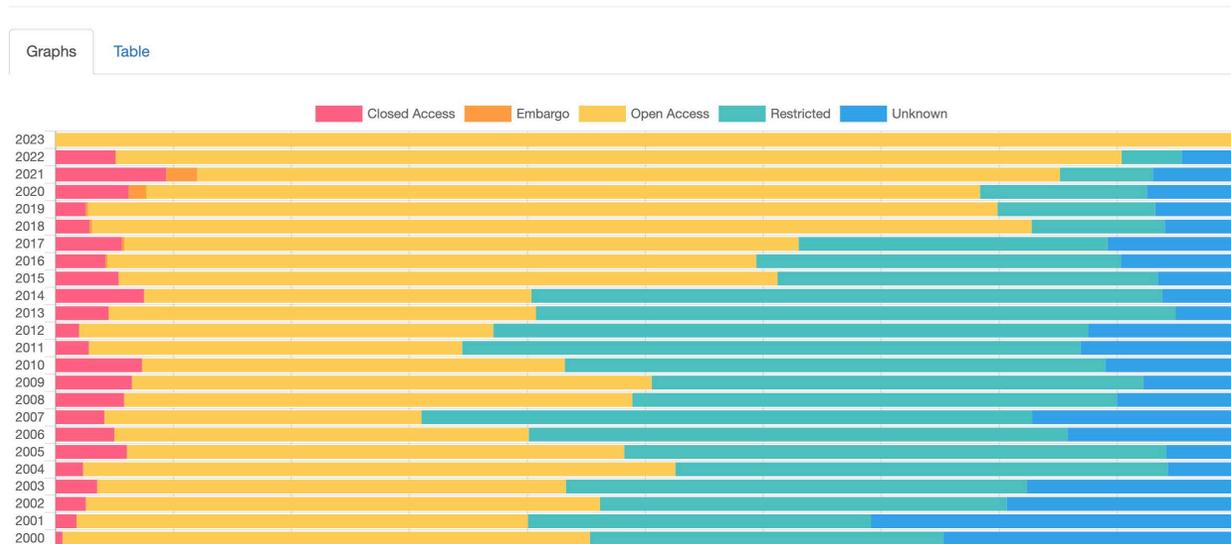
PlumX



Scite

# Visualizzazione statistiche

## Product Access Rights by Year



Visualizzazione grafico

## Product Access Rights by Year

Graphs Table

	Closed Access	Embargo	Open Access	Restricted	Unknown	Total
<b>Total</b>	581	23	7467	5595	1833	
2023	-	-	1	-	-	1
2022	18	-	301	18	16	353
2021	43	12	335	36	32	458
2020	29	7	330	66	35	467
2019	14	1	421	73	37	546
2018	13	1	360	51	27	452
2017	27	1	275	126	52	481
2016	24	1	313	176	55	569
2015	31	-	324	187	38	580
2014	45	-	197	321	37	600
2013	26	-	209	313	29	577

Visualizzazione tabella

# Qualcosa è cambiato...



**Il personale è generalmente più informato sull'Open Access e più consapevole delle buone pratiche per attuarlo.**



**Molti autori consultano autonomamente gli strumenti per verificare le policy degli editori prima di depositare il prodotto in archivio.**



**Sempre più prodotti sono depositati direttamente ad accesso aperto e il personale della biblioteca ha sempre meno necessità di contattare gli autori.**

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1,001

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364

Authors

15

Projects

353

Open Access products

- L'Istituto di Scienze del Patrimonio Culturale (ISPC) utilizza Open Portal
- Altri istituti del CNR stanno valutando l'adozione

# Punti di forza...e di debolezza

- Facile implementazione e personalizzazione
  - Bassi costi di manutenzione e funzionamento
  - Valorizzazione ed estensione dei metadati
  - Valorizzazione della produzione scientifica
- 
- Dipendenza dalla fonte di origine (nel nostro caso People)
  - Dipendenza da servizi di terze parti

# Per saperne di più

- ISTI Open Portal

<https://openportal.isti.cnr.it/>

- Aspetti tecnici

Michele Artini, Leonardo Candela, Paolo Manghi

[{nome.cognome}@isti.cnr.it](mailto:{nome.cognome}@isti.cnr.it)

- Monitoraggio applicazione policy e cura dei dati

Silvia Giannini, Anna Molino

[{nome.cognome}@isti.cnr.it](mailto:{nome.cognome}@isti.cnr.it)



Grazie!