

ArcheoFOSS

Software, hardware, processi, dati
e formati aperti nella ricerca archeologica

14th Edition

2020.archeofoss.org

Due to the global coronavirus (COVID-19) outbreak, the 14th edition of the international conference **ArcheoFOSS Open Software, hardware, processes, data and formats in archaeological research** will be held online during October, 15th - 17th 2020.

The Conference will address a range of important topics and themes relating to data sharing, open tools, processes and formats in the archaeological domain.

We are inviting scholars, independent researchers, institutions, freelance archaeologists and professional companies involved in Cultural Heritage to submit original research or case studies by exposing the latest trends, theoretical or practical developments and challenges in the field. The Organising Committee strongly encourages abstract proposals focused on the following three thematic areas:



1. Use and Application of Free/Libre and Open Source (FLOS) Tools in Archaeology

The session covers all the aspects connected with the application of free/libre and open source tools, such as software and hardware solutions, as well as processes, in the archaeological scope.

Potential topics include, but are not limited to:

- projects and research with workflows based on the FLOS paradigm;
- methods and strategies for using FLOS in archaeology;
- management of excavation data, photographic and graphic documentation;
- 3D survey, data processing and 3D reconstructions;
- data analysis through deep learning techniques (images, point clouds, etc);

- scientific transparency;
- innovative data publishing strategies;
- integration, through open formats, with non-archaeological workflows (geology, engineering, construction science, environmental analysis, etc).



2. Creation, use and Promotion of Open Data and Open Formats in Archaeology

The session encompasses themes such as the creation, publication and sharing of Open Data in archaeology, including commercial software. Particular attention will be given to the development and promotion of Open Formats.

Potential topics include, but are not limited to:

- projects and research with open format outcomes;
- publication strategies based on Open Data and Linked Open Data (LOD);
- adoption of transparent and documented data transformation processes;
- processing, retrieving and re-publication of legacy data;
- long term archiving and storage strategies for Cultural Heritage data through open formats;



3. Development and Customization of FLOS Software and Hardware Solutions for Cultural Heritage

The session hosts papers dedicated to the development and customization of free/libre and open source tools, with a special focus on software and hardware components and their effect on data, formats and processes.

Potential topics include, but are not limited to:

- creation of hardware/software tools for data modeling and integration;
- creation of hardware/software solutions for data collection in the field of Cultural Heritage;
- development of Artificial Intelligence (AI) and deep learning solutions;
- open hardware framework for data management;
- development of software/hardware Internet of Things (IoT) tools for Cultural Heritage;

Abstract Submission

The abstracts (4000 characters max.), together with prospective images (max. 5), captions and a short biography of the author/authors, must be submitted through this link: <https://forms.gle/yEqVdk2ApBTSLJoP6> by June, 30th 2020. Texts and images should be released under CC BY-ND or similar CC licenses.

Please note that if your abstract does not fully meet the guidelines, it will automatically be discarded without further notice.

Call for Workshop

The conclusive day of the conference will be dedicated to practical workshops focused on the topics of the conference. The attendance will be limited in number to ensure a better enjoyment of the events. The Organising Committee invites proposals for practical workshops on the use of a specific software, the execution of a process or the creation of a mash-up.

Applicants are requested to carefully comply with the following requirements:

- The maximum duration of the workshop is 2 hours.
- The applicants should ensure all participants can follow the workshop in practical term, opting for multi-platform environments. Furthermore, the workshop should be accessible through Linux (most popular distributions), Windows and MacOS systems;
- Applicants will have to provide a compatible working environment (software, libraries, data) or provide in advance detailed instructions to set it properly. Applicants should remain available to the registered participants, before the beginning of the workshop, in order to solve any problems in the working environment. The organisation of a follow-up session (4-5 weeks after the workshop work), with the support of the organizing committee, is highly encouraged.
- Applicants and participants must agree with the video recording of the workshop and its publication through ArcheoFOSS communication channels;
- Applicants are required to provide teaching material to the ArcheoFOSS organizing committee, who may publish the material on its website and/or in its public repositories.

Workshop submission

The proposal (3000 characters max.), which shall include a detailed description of the practical purposes of the workshop and detailed information on required

hardware/software configuration, must be submitted through this link: <https://forms.gle/TCPNg7NNC3UvnFiEA> by June, 30th 2020.

Please note that if your proposal does not fully meet the guidelines, it will not be considered for the session.

Call for Demos

The conference will provide the opportunity to present live demonstrations, that will be hosted in the official ArcheoFOSS repositories. The participants can publish demos of applications and/or web mashups and share them with all participants.

Videos, presentations in several formats (odp, pdf, html, md, and so on) or functioning web applications are allowed. All the published demos will be presented during the conclusive day of the conference.

Demonstrations Submission

The prospective proposals must be agreed with the organizing committee by mail (contributi@archeofoss.org) no later than August, 31th 2020.

Publication of the Proceedings

Before the Conference

All the submitted abstracts – together with the short biography of the author (max. 700 characters), picture, affiliation and email address – will be gathered in a golden open access volume, in digital format. The volume, provided to the authors and participants, will be freely available on the ArcheoFOSS website.

After the Conference

All authors will be asked to submit a full paper that will be published in the official proceedings of the conference after a double blind peer-review process.

Important Dates

Deadline for abstract submission: 30/06/2020

Notification of Acceptance of the abstracts: 31/07/2020

Deadline for workshop submission: 30/06/2020

Notification of Acceptance of the workshops: 31/07/2020

Deadline for demo submission: 31/08/2020

Conference dates: 16th-17th October, 2020

Further Information

Presentations should last no longer than 20 minutes; 5 additional minutes will be available for questions and answers.

The official conference languages are English and Italian;

For any further information, please contact us at: info@archeofoss.org