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Preface

Following the success of SSD'01 held in Hammamet-Tunisia in 2001, and the subsequent version of SSD conference since then, we have landed on the twenty third IEEE International Multi-Conference on Systems, Signals and Devices - SSD'26 to be held in Catania, Italy, from 30th of March to the 2nd of April 2026. The conference program consists of 4 Plenary Sessions, 8 Keynote Lectures, a round table, and 42 Oral Sessions. SSD'26 multi-conference is organized to include 4 conferences covering different fundamental and applied aspects:

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|---|-------|
| 1 “Int. Conf. on Communication, Signal Processing & Information Technology” | (CSP) |
| 2 “Int. Conf. on Systems, Automation & Control” | (SAC) |
| 3 “Int. Conf. on Power Systems & Smart Energies” | (PSE) |
| 4 “Int. Conf. on Sensors, Circuits and Instrumentation Systems” | (SCI) |

SSD'26 secretariat has received 294 submissions from 44 countries: Afghanistan, Algeria, Austria, Bahrain, Belgium, Brazil, Canada, China, Czech Republic, Denmark, France, Germany, Hungary, India, Indonesia, Iran, Iraq, Italy, Jordan, Kuwait, Lebanon, Libya, Luxembourg, Madagascar, Malaysia, Morocco, Oman, Pakistan, Palestine, Poland, Portugal, Romania, Saudi Arabia, Serbia, Sudan, Sweden, Switzerland, Taiwan, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom (Great Britain), USA.

Each paper has been reviewed by at least two reviewers of the program committee which consists of more than 100 scientists from more than 30 countries. Based on the paper's reviews, the organizing committee has accepted 222 papers.

We would like to express our deep gratitude to all chairs and members of the program committee for their sincerity, perseverance and relentless work ethic. Special thanks are due to all members of the organizing committees for their determination to make this event a promising success.

Finally, we would like to extend our deep gratitude to all those who have contributed to the financial support of SSD'26.

Professors: Carlo Trigona, Ahmed Said Nouri, Kasim Mousa Al-Aubidy and Olfa Kanoun

Catania, Italy

March, 2026

a high degree of consistency between SG-OSL ages from mortars and coarse-grain OSL ages from bricks, with all age estimates overlapping within uncertainties. Although SG-OSL ages are systematically slightly higher, the observed differences are small and not statistically significant. Moreover, SG-OSL ages are associated with smaller uncertainties, reflecting the enhanced control on equivalent dose determination provided by grain-scale measurements. The results confirm the reliability of SG-OSL for mortar dating and its complementarity with brick OSL.

Paper Reference: (SCI-7-4) 1571235617

Title: Laser Scanning vs Photogrammetry for Metric and Color Recording: The Iulia Florentina Inscription

Author(s): Trapani, Paolino; Rizza, Roberto; Allegra, Dario; Gueli, Anna M; Stanco, Filippo (Italy)

Abstract – This paper presents a comparative evaluation of structured-light laser scanning and advanced close-range photogrammetry for the 3D digitization of an epigraphic artifact, with a focus on (i) metric accuracy in the restitution of overall dimensions and (ii) color fidelity in the resulting texture products. The testbed is the funerary inscription of Iulia Florentina, a key Late Antique Christian epitaph whose scholarly value depends on both reliable measurements and the legibility of shallow incisions. Two independent acquisition pipelines were implemented: a structured-light scanner produced a high-density geometric reference, while a RAW-based photogrammetric workflow was optimized through controlled illumination, camera calibration practices, and ColorChecker-driven white balance and tonal normalization. Each dataset was processed into watertight meshes and texture maps, then evaluated through dimensional checks against reference measurements and through color-difference analysis computed on calibrated targets. The comparison highlights the trade-offs between the two methods, showing how scanner-based geometry supports stable metric restitution, whereas photogrammetry provides flexible, high-quality texture capture when color is rigorously normalized. The resulting protocol offers a portable and reproducible framework for documenting inscriptions, balancing geometric reliability and color consistency for scientific reuse and dissemination.

Paper Reference: (SCI-7-5) 1571260419

Title: Parametric Modeling of Circular Electrodes for Capacitive Sensing

Author(s): Schnebel, Andi; Wendt, Thomas M.; Kanoun, Olfa (Germany)

Abstract – This work presents a parametric methodology for designing and evaluating circular electrode configurations in capacitive sensing systems. The study combines analytical modeling of electrode overlap with quasi-static AC simulations to establish a quantitative relationship between geometry and measurable capacitance. A two-step workflow is implemented: first, a geometric model defines the analytical dependence of capacitance on electrode displacement; second, a Simulation model verifies and extends the analytical results under realistic boundary conditions. The approach enables systematic optimization of electrode density, spacing, and topology, providing a transferable framework for future additively manufactured capacitive sensor arrays.

Paper Reference: (SCI-8-1) 1571235492

Title: Digital Sensing Tools for Heritage: 3D Microclimate Analysis at Castello Ursino Art Gallery

Author(s): Trigona, Carlo; Salerno, Giuliano A.; Politi, Giuseppe; Gueli, Anna M; Santagati, Cettina; D'Agostino, Graziana; Galizia, Mariateresa; Potenziani, Marco; Callieri, Marco; Pingi, Paolo; Scopigno, Roberto (Italy)

Abstract – Monitoring and controlling microclimatic parameters inside museum galleries is crucial for the proper conservation and exhibition of artworks, which are often composed of sensitive and already fragile materials. In this article, we present an environmental monitoring campaign spanning 31 months, conducted at the Art Gallery of Castello Ursino in Catania, Italy, using a network of sustainable, low-power sensing systems powered by energy harvesters that harness the freely available energy in the museum environment. Preliminary analysis of the data shows that the maximum daily fluctuations in temperature and relative humidity remained within 2 °C and 3%, respectively. The collected measurements were integrated into a detailed three-dimensional reconstruction of the gallery, produced through advanced laser-scanning techniques and made accessible directly through standard web browsers. This methodology enables immediate, contextualized, and customizable visualization of microclimatic data within the 3D environment, providing museum curators with an effective tool for informed decision-making and for clearly identifying the critical environmental parameters requiring attention in exhibition spaces.

Paper Reference: (SCI-8-2) 1571235495

Title: BIPV for the Built Heritage in Italy

Author(s): Morales, Kevin Aaron Castro; Corrao, Rossella (Italy)

Abstract – The integration of Building Integrated Photovoltaics (BIPV) products in the Italian building heritage lies at the intersection of two pressing and, at times, competing societal objectives: the conservation of cultural and architectural heritage values and the decarbonization of the building sector, in line with national and European climate targets. Italy hosts one of the highest densities of protected buildings, historic urban centers, and landscape-sensitive settlements in Europe, creating both an urgent need for renewable energy deployment and a highly complex legal, technical, and cultural framework governing interventions. The coexistence of heritage preservation and renewable energy installation requires the reconciliation of strict conservation principles (such as minimal intervention, material authenticity, and reversibility) with the structural and electrical requirements of photovoltaic systems. This work provides a critical and evidence-based overview of the national legal and normative frameworks regulating photovoltaic installations on heritage assets, with particular reference to the Cultural Heritage and Landscape Code (D.Lgs. 42/2004) and subsequent regulatory reforms affecting historic centers, including D.Lgs. 178/2025. The analysis addresses ministerial opinions, regional guidelines, and European standards such as EN 16883:2017, ISO 13790, and ISO 52016, which collectively inform technical feasibility, energy auditing, and conservation compliant design strategies. Furthermore, the paper surveys emblematic Italian and European BIPV case studies, documenting technological approaches and design strategies which demonstrate how energy refurbishment interventions can preserve or enhance historic value.

Paper Reference: (SCI-8-3) 1571235535

Title: Image Retrieval for Artifact Recognition using a Photographing Camera: A Case Study

Author(s): Litrico, Gioele; Allegra, Dario; Gueli, Anna M; Stanco, Filippo (Italy)

Abstract – In this work, we present a content-based image retrieval framework for the automatic recognition of archaeological artifacts from the collection of the Museum of Archaeology of the University of Catania (MAUC), using images acquired with a standard photographic camera. Compared to smartphone-based acquisition, camera imagery introduces additional challenges due to higher variability in optics, resolution, illumination, and acquisition parameters, making the retrieval task more complex. To evaluate the proposed framework under realistic and challenging conditions, a visual database of approximately 6,500 images was collected, capturing 35 artifacts from multiple viewpoints and under diverse lighting conditions. The large scale of the dataset further increases the difficulty of the retrieval task and provides a suitable case study to assess both robustness and scalability. We compare results obtained using two CNN-based feature extractors, assessing both recognition accuracy and computational requirements. Experimental results show that the proposed framework achieves high recognition performance while maintaining low computational cost, demonstrating that reliable artifact identification is feasible even with camera-based images and large visual databases.

Paper Reference: (SCI-8-4) 1571235595

Title: A Retrieval-Based Framework for Accessible Augmented Reality in Cultural Heritage

Author(s): Rizza, Roberto; Barbagallo, Simone; Allegra, Dario; Gueli, Anna M; Stanco, Filippo (Italy)

Abstract – Ensuring accessible interaction with cultural heritage remains a significant challenge for augmented reality applications, particularly when addressing the distinct needs of users with sensory disabilities. While augmented reality systems increasingly rely on artificial intelligence to enhance visitor engagement, accessibility is often treated as an add-on rather than as a core design principle. This paper presents a modular, retrieval-based framework for accessible augmented reality in cultural heritage contexts. The framework adopts a server-centric architecture in which semantic retrieval is performed using CLIP-based visual embeddings indexed in a vector database, while interaction and content presentation are managed by a lightweight Unity-based AR client. By decoupling semantic understanding from interaction modality, the framework supports multiple accessibility pathways within a shared semantic pipeline. Depending on the user profile, retrieved cultural content is delivered through spatialized audio descriptions for blind and visually impaired users or through visual AR interfaces, including sign language content, for deaf users. The proposed architecture promotes accessibility-by-design, scalability, and long-term maintainability, providing a flexible reference framework applicable to museum and archaeological environments. The framework establishes a flexible basis for future user-centered evaluation and iterative refinement in real-world cultural heritage contexts.

Paper Reference: (SCI-8-5) 1571260416

Title: Influence of Temperature on Measuring the Properties of Molten Steel

Author(s): Lamm, J.; Kanoun, O.; Wendt, T. M. (Germany)

Abstract – In this paper the thermo-mechanical impact on a robotic measurement lance deployed in electric arc furnaces is shown. While robotic automation enhances safety in steelmaking environments, the thermal

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