

2025 IEEE International Conference on Cyber Humanities

8-10 September 2025, Florence (IT) - www.ieee-ch.org

Important dates

Paper submission deadline:

April 10, 2025

Authors' notification:

May 2, 2025

Camera-ready submission:

May 15, 2025

Early registration deadline:

May 20, 2025

Conference dates:

Sept 8–10, 2025

The IEEE International Conference on Cyber Humanities (IEEE CH) is an annual event co-sponsored by the IEEE Systems, Man, and Cybernetics (SMC) Society. It focuses on theoretical and practical aspects of technologies applied to Social Science and Humanities (SSH) that includes Arts, Heritage, History, Archeology, Linguistics, Libraries, Archives and so forth. SSH is now considered as a Critical and Complex Human-Cyber-Physical Ecosystem that need protection, valorization and resilience for the future generations. The conference explores novel concepts, technologies, solutions and applications to along the digital continuum including digitization, curation, protection, reuse and disseminate Digital Cultural Assets. The IEEE CH 2025 conference will be held in Florence, Italy, during September 8–10, 2025.

Prospective authors are encouraged to submit previously unpublished contributions from a broad range of topics, which include but are not limited to the following:

T1-Digitization & Monitoring T2-Processing & Curation T3 Storage & Preservation

<ul style="list-style-type: none"> 🔗 Multimodal digitization (3D scanning, photogrammetry, multispectral imaging, X-ray, terahertz imaging, ...), data fusion, BIM; 🔗 3D Modelling/BIM 🔗 Internet of Things / Internet of Underwater Things 🔗 Multispectral Imaging for Non-invasive Analysis of Cultural Artifacts: 🔗 Audio/Video digitization techniques 🔗 High-Resolution Digitization of Cultural Assets (Manuscripts, Textiles, Complex Surface Materials, Paintings..) 🔗 UAV based digitization 🔗 Performing art digitization 🔗 AI-based OCR & text recognition 	<ul style="list-style-type: none"> 🔗 Semantic-aware representation of multi-dimensional digital artefacts; 🔗 Integration of User-Generated Content in Digital Archives 🔗 Digital Curation of VR/AR/MR 🔗 Participatory Digital Curation 🔗 Provenance, Trust, Chain of custody, Reputation 🔗 Metadata/paradata generation and Quality 🔗 Automatic knowledge extraction and Indexing 🔗 NLP, NER, Machine Translation 🔗 Representation Information 🔗 FAIR Data 🔗 Semantic Data Lake 🔗 Document Formats & Containers 🔗 Open Archives 	<ul style="list-style-type: none"> 🔗 Preserving Digital twins of Cultural Assets 🔗 Blockchain based preservation 🔗 Intelligent Self-preserved digital objects 🔗 AI-driven preservation 🔗 Long-term Storage Solutions 🔗 Techniques for Accessing Obsolete Digital Formats 🔗 Advanced Compression Algorithms for preservation 🔗 Preserving multimodal data 🔗 Cloud based preservation 🔗 Distributed preservation 🔗 UX preservation 🔗 Big Data Preservation 🔗 AI models preservation 🔗 Trusted Digital Repository 🔗 Trustworthy Persistent Identifiers
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T4- Protection & Security T5-Retrieval & Analysis T-6 Reuse & Valorization

<ul style="list-style-type: none"> 🔗 SSH Research Infrastructure protection 🔗 Cyber-security and AI Cyber-threat intelligence 🔗 Cyber Resilience 	<ul style="list-style-type: none"> 🔗 AI based Information access and retrieval; 🔗 semantic search, Linked data 🔗 data and information exploration; 	<ul style="list-style-type: none"> 🔗 Multimedia Digital Library 🔗 Digital Libraries/Archives 🔗 Virtual Museums/Exhibitions
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T1 Digitization

- Jianyi Lin (Univ. Cattolica)
- Alba Damato (Univ. Vanvitelli)
- Massimiliano Guarnieri (ENEA)

T2 Processing & Curation

- TBD
- TBD

T3 Storage & Preservation

- Laurent Boch (RAI)
- Perla Innocenti (Univ.Strathclyde)

T4 Protection & Security

- Luca Faramondi (CampusBio)
- Stefano Bistarelli (Unipg)

T5 Retrieval & Analysis

- Paolo Ceravolo (UNIMI)
- Valentina Bartalesi (CNR-ISTI)
- Giorgio Maria Di Nunzio (UNIPD)

T6 Resue & Valorization

- Karina Rodriguez-Echavarria
- Fabio Pittarello (Unive)

T7 SSH Research Infrastructure

- TBD
- TBD

T8 Ethical & Legal aspects

- IRCAI
- Ronald Alcalá (Westpoint)

T9-Societal & Educational Aspects

- Ilaria Torre (UNIGE)
- Francesco Pupo (UNICAL)
- Anna Maria Tammaro (UNIPR)

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Local arrangements

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🔗 Cyber-crime detection	🔗 Knowledge Graph	🔗 Cultural Information Systems
🔗 Cyber Defense	🔗 Syntactic and Semantic interoperability	🔗 Digital Archeology
🔗 Cryptography	🔗 Semantic processing	🔗 3D/Holography
🔗 Privacy and data protection	🔗 LLM based search/ RAG	🔗 Virtual restoration
🔗 Digital watermarking and authentication techniques	🔗 HMI/US novel approaches	🔗 Generative AI in digital arts
🔗 GDPR,NIS2	🔗 LLM based digital public history analysis	🔗 Interactive storytelling and gamification
🔗 Cyber Risk Assessment	🔗 Vectoral Database	🔗 Digital Public History
🔗 RetrievalFalse artifacts detection	🔗 Knowledge Discovery and Data mining	🔗 VR, AR, MX reality environments;
🔗 Forensic solutions	🔗 Semantic deep learning	🔗 Virtual Assistant
🔗 Post-quantum security		🔗 UX, Design 4All and Heritage Accessibly
🔗 IPR,DRM		🔗 LOD / Web 3.0
🔗 OSINT		🔗 Intelligent/Smart Contents publishing

T7- SSH Research Infrastructures

🔗 Green Computing and Sustainability Models;
🔗 SSH RIs as Critical Infrastructures;
🔗 RIs Standardization, Consolidation and Alignment;
🔗 RIs Nodes and Resources Interoperability;
🔗 RIs and the European Research Area (EOSC)
🔗 Training, Capacity Building, Engagement
🔗 Innovative Cross domain Services and Environments;
🔗 Descriptive and executable Scientific Workflows
🔗 Cloud Computing / Ubiquitous Computing for SSH
🔗 RIs dependability and resilience

T8 - Ethical & Legal Aspects

🔗 AI Explainability
🔗 Transparency and Explicability;
🔗 Digital Literacy;
🔗 Piracy;
🔗 Automation and Legal Responsibility;
🔗 Research Integrity;
🔗 Human Centered Design;
🔗 Automation, Privacy and Public Responsibility;
🔗 AI and Social responsibility;
🔗 Biases in AI based translation
🔗 Responsible LLM
🔗 Ethical AI

T9- Societal & Educational Aspects

🔗 Humanities Education and Digital Literacy;
🔗 Digital Divide and Discrimination;
🔗 Cyber Humanities for Equity, Diversity and Inclusion;
🔗 AI for Cultural and Creative Industries;
🔗 Public Engagement and Citizen Science;
🔗 Democracy and Social Impact;
🔗 Digital publishing
🔗 Tools for Education and Digital Literacy;
🔗 Digital Heritage driven Democracy and Diplomacy
🔗 Computational Social Science

The IEEE CH 2025 conference will accept high-quality regular research papers, Systematization of Knowledge (SoK) papers providing insights in the above areas, and industrial papers promoting contributions on technology development, innovations and implementations. IEEE CH 2025 will also host workshops specializing into the conference's areas or focusing on high-quality applied research and innovation results that are obtained from cyber-security and resilience projects.

Submitted manuscripts should not exceed 6 pages (plus 2 extra pages, being subject to overlength page charges) and should be of sufficient detail to be evaluated by expert reviewers in the field. The conference (including workshops) proceedings will be published by IEEE and will be included in IEEE Xplore. Detailed information about the paper submission and guidelines to authors will be posted on the IEEE CH conference website <https://www.ieee-ch.org>.

Main Organizers



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