Università di Genova | CLOE | Fondazione Compagnia di San Paolo | Camera di Commercio Genova

CLOE FINAL CONFERENCE 2026

Working with complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation

September 16th - 18th **2026 | Genova** (Italy)

Aula Magna |Palazzo Balbi-Cattaneo | Via Balbi 2

Sala delle Grida | Palazzo della Borsa | Via XX Settembre 44

Detailed Programme

European Commission

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CLOE

Working with complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation

CLOE is an interdisciplinary and inter-sectoral doctoral programme developed and coordinated by the University of Genoa, in collaboration with a network of host academic and non-academic international organisations.

Over the past five years, we have studied the complexity of rural and mountain areas, searching for new ways to contribute to their sustainable development and active conservation. Combining historical, environmental, engineering, mathematical modelling, economic, social and legal perspectives, the CLOE project adopts a multidisciplinary approach to bridge different areas of expertise that are often too narrow to capture the complexity of the issues affecting mountain ecosystems and rural areas. This transdisciplinary approach is key to addressing pressing challenges and working towards the sustainable development of local communities.

Through four sessions and three round tables, this conference aims to compare research experiences and practices, and to promote and sustain dialogue among different actors, such as institutional and academic stakeholders and organisations that are fundamental to participatory decision-making processes. CLOE advocates this approach as essential to developing sustainable strategies that genuinely reflect people's values in relation to nature and their territories.

Organizing Committee:
Lucia Doni, Caterina Piu, Barbara Cavalletti, Marco Invernizzi, Eva Riccomagno, Anna Maria Stagno

Scientific Committee:
Marco Invernizzi, Anna Maria Stagno, Eva Riccomagno, Barbara Cavalletti, Lucia Doni, Caterina Piu, Amjad Ali, Muhammad Asim Amin, Giorgio Boni, Rossella Bovolenta, Gabriele Casazza, Isabel Fanlo Cortés, Bianca Federici, Corrado Fumagalli, Laura Gago-Chorén, Giampiero Lombardini, Priscilla Iyokwiringirwa, Rita Ogochukwu Ezugwu, Valeria Ottonelli, Bukurie Ozuni, Coline Pacton, Iram Parvez, Renato Procopio, Ivano Rellini, Sebastiano Salvidio, Raquel Sarria-Acosta, Eltjana Shkreli, Muhammad Shoaib

Wednesday, 16th September 2026

Aula Magna, Palazzo Balbi Cattaneo - Via Balbi 2, Università di Genova

12.00 **Registration and welcome lunch**

13.30 **Institutional greetings**
Federico Delfino (Rettore, Università di Genova), **Mario Marchese** (Prorettore al Dottorato di Ricerca e ai Rapporti con le Imprese, Università di Genova), **Micaela Rossi** (Preside Scuola di Scienze Umanistiche, Università di Genova), **Paola Perego** (Preside Scuola Politecnica, Università di Genova), **Duccio Tongiorgi** (Direttore DIRAAS, Università di Genova), **Stefano Vigni** (Direttore DIMA, Università di Genova)

14.00 **Presentation of the CLOE Project and final Conference 2026, Anna Maria Stagno** (DIRAAS, Università di Genova) and **Marco Invernizzi** (DITEN, Università di Genova)

14.20 **Tavola rotonda**
Prospettive e sfide per lo sviluppo sostenibile delle aree rurali e montane: strategie di governance e valorizzazione
(Perspectives and challenges for rural and mountain areas sustainable development: governance strategies)

Moderano **Marco Invernizzi** e **Anna M. Stagno**

Interventi **Giorgio Pagliari** (Università di Parma - Primo firmatario della Legge 20.11.2017 n. 168 "Norme in materia di domini collettivi")
Alessandro Piana (Assessore ad Agricoltura, Allevamento, Entroterra e Montagna, Parchi e Biodiversità, Regione Liguria)
Luca Battaglini (Dipartimento di Scienze Agrarie, Forestali e Alimentari, Università di Torino - Comitato scientifico della rivista *L'Altra Montagna*)
Laura Cantarella (Vicepresidente vicaria di Confcooperative Habitat)
Antonio Uccelli (DINOGMI, Rettore eletto dell'Università di Genova)

15.45 **Coffee Break**

Session I *Environmental conservation and the social dimension: exploring how environmental resource management and policies influence nature and local communities and vice versa*

16.15 **Session I - first part** *Environmental conservation and the social dimension*

Chairs **Enrica Roccotiello** *and* **Andrea Pirni**

Introductory talk *Rewilding, cultural heritage landscapes & environmental identity*, **Martin Drenthen** (Institute for Science in Society, Radboud Universiteit – Nijmegen)

Papers and discussions

Lucia Doni *et al.* (DISTAV, Università di Genova), *Ecological implications of pastoralism practices and tradition in the Maritime Alps*
Martino Adamo *et al.* (Università di Torino), *Secondary alpine grasslands management may have buffered demographic decline in endemic plants of the western Alps*
Davide Casalino *et al.* (DISTAV, Università di Genova), *Framework on serpentine outcrops ecology and conservation in the Mediterranean Basin biodiversity hotspot*

17.45 **Session I - second part** *Exploring environmental resource management and policies*

Chairs **Valeria Ottonelli** *and* **Gabriele Casazza**

Papers and discussion
Rita Ogochukwu Ezugwu (DAFIST, Università di Genova), *Biodiversity conservation: beyond the human–nature divide*
Sara Bonfanti (Università Statale di Milano), *Gendered water security and migration mitigation: stepwell revival in drought-prone Gujarat*
Ibsa Aliyi Usmane and B. Bedadi Worka (Haramaya University, ሐረማያ ዩኒቨርሲቲ), *Environmental conservation and the social dimension: exploring the role of socio-cultural practices and policies in climate resilience, conflict resolution and biodiversity management in Ethiopia*
Eltjana Shkreli (DAFIST, Università di Genova), *Tradition and transformation: spatial analysis of Kelmend's settlement patterns through time*

Thursday, 17th September 2026

Sala delle Grida, Palazzo della Borsa, Via XX Settembre 44, Genova

9.00 **Institutional greetings**
Luca Beltrametti (Preside della Scuola di Scienze Sociali, Università di Genova), **Michele Viviani** (DITEN, Università di Genova), **Anna Galleano** (Camera di Commercio, Industria, Artigianato e Agricoltura, Genova)

Session II *Integrated approaches and historical perspectives on environmental risk mitigation*

9.20 ***Session II - first part*** *Integrated approaches to environmental risk*

Chairs **Rossella Bovolenta** *and* **Ivano Rellini**

Introductory talk *From geological expertise to interdisciplinary analysis: changing needs and case study examples*, **Nathalie Marcot** (BRGM, Bureau de Recherches Géologiques et Minières, Direction Régionale Provence Alpes Côte d'Azur)

Papers and Discussion
Priscilla Niyokwiringirwa *et al.* (DISTAV, Università di Genova), *Understanding uncertainty propagation in hydro-geomorphological hazard mapping: integrating physics-based landslide modelling and sediment dynamics*
Taha Omrani *et al.* (Tek-up University), *AI powered web platform for drought zone analysis using LSTM, XGBoost, and heatmap visualization*
Mohamed Aziz Bjaoui *et al.* (INSTM, Institut National des Sciences et Technologies de la Mer), *Deep learning and XGBoost for coastal trophic status monitoring and forecasting in the Tunisian Mediterranean*
Kaveh Hoorfar *et al.* (DICCA, Università di Genova), *Erosion processes and slope instability: an integrated methodology for the analysis and protection of mountain areas*
Andrea Giacobbe *et al.* (Comune di Chiavari), *Multi – criteria methods to enhance the landslide risk management of small-medium Municipalities to plan sustainable mitigation strategies: the analysis of San Colombano Certenoli Municipality*

10.50 Coffee break and poster session

11.20 **Session II - second part** *Historical Perspectives on Environmental Risk Mitigation*

Chairs **Bianca Federici** and **Giacomo Zanolin**

Introductory talk *Transforming rural landscapes: from dynamic land use to desertion, green colonialism and heritagization*, **Eva Svensson** (Institutionen för samhälls-och kulturvetenskap, Karlstads Universitet)

Papers and discussion
Laura Gago-Chorén (LASA-DIBRIS, Università di Genova), *Deciphering rural landscapes: a study of Velva (Liguria-Italia) from Landscape Archaeology*
Francesco Faccini *et al.* (DISTAV, Università di Genova), *Learning from past geography for present-day geohydrological risk mitigation: the MIAGE Project*
Sergio Couto González *et al.* (MemoLab, Universidad de Granada), *Multifunctionality of traditional and historical irrigation systems: a key tool for sustainability in Mediterranean rural and mountain areas*
Caterina Piu and Sabina Ghislandi (LASA-DAFIST, Università di Genova), *Rural archaeological investigations on terraced systems of the Ligurian Apennines: production practices, environmental resource management and sustainable land conservation*

12.50 **Buffet Lunch**

Session III *Modelling of emerging commons and regulation of common goods*

13.50 **Session III - first part** *Modelling emerging commons*

Chairs **Isabel Fanlo Cortés** and **Marco Invernizzi**

Introductory talk *The Commons as an Emerging Legal Category: Genealogy and Consequences,* **Alessandra Quarta** (Dipartimento di Giurisprudenza, Università di Torino)

Papers and discussion
Bukurie Ozuni (DiSPI, Università di Genova), *Digital healthcare and telemedicine as an emerging common good in rural and mountain areas*
Vilard Bytyqi (Akademia e Kosovës për Siguri Publike, AKSP), *Access to justice for victims of domestic violence in rural areas: positive obligations of the state*
Elisabeth Masneri (LASA-DIRAAS, Università di Genova), *From customary practices to third-sector institutions: reactivating collective lands in the Ligurian Apennines*
Muhammad Akram *et al.* (Università del Sannio), *Towards climate-resilient rural communities: the role of smart renewable energy communities*
Fitore Morina (Fakulteti Juridik, Universiteti i Prishtinës), *The role of value added tax (VAT) in transition economies*

15.30 **Coffee break and poster session**

16.00 **Session III - second part** *Modelling regulation of common goods*

Chairs **Eva Riccomagno** and **Renato Procopio**

Introductory talk *From isolation to resilience: energy communities as a pathway for sustainable rural and mountain futures,* **Muhammad Waseem** (School of Business, Maynooth University)

Papers and discussion
Muhammad Asim Amin *et al.* (DITEN, Università di Genova), *PPO-based flexibility aggregation for grid-aware energy trading and EV charging in energy communities*
Alessandro Mondini (Istituto di Matematica Applicata e Tecnologie Informatiche "E. Magenes" – CNR, Pavia) and G. Fausto (Durham University), *Regional probabilistic landslide forecasting and risk mitigation*
Sabrine Sahbani *et al.* (Institut National Agronomique de Tunisie, Université de Carthage – مؤسسة البحث و التعليم العالي الفلاحي | جامعة قرطاج), *Physics-informed random forest for sustainable shellfish production prediction in a climate change context*
Muhammad Shoaib and Eva Riccomagno (DIMA, Università di Genova), *Compositional data analysis for climate data*

17.45 **Visit to the historic city centre of Genova**

19.15 **Social Dinner at *Palazzo dell'Università*, Via Balbi 5**

Friday, 18th of September 2026

Sala delle Grida, Palazzo della Borsa, Via XX Settembre 44, Genova

Session IV *Ecosystem Services: Unlocking Resilience for Climate Challenges*

9.00 **Session IV - first part** *Unlocking Resilience for Climate Challenges*
Chairs **Barbara Cavalletti** *and* **Giampiero Lombardini**

Introductory talk *Ecosystem Services in Practice: Learning from Agricultural and Landscape Realities*, **Soazig Darnay** (Centre de Ciència i Tecnologia Forestal de Catalunya, Lleida)

Papers and discussion
Anbreen Akhtar *et al.* (DIEC, Università di Genova), *Monetary valuation of water-related ecosystem services within SEEA EA: Accounting consistency, sectoral heterogeneity, and evidence from a systematic review*
Sergio Couto González *et al.* (MemoLab, Universidad de Granada), *Incentives for ecosystem Services and historical irrigation systems in rural Spain: the role of administrative agreements on the support and recognition of commons*
Carmen Aguiló Rivera *et al.* (University of Birmingham), *Retrieving traditional irrigation knowledge in Spain, more than a productivity strategy*
Giuseppe Pappagallo (Istituto di Ricerca sulle Acque, CNR, Bari), *Mediterranean marginal areas as biodiversity reservoirs and microclimatic refugia: new floristic and habitat records from intermittent rivers of the Dauni Mountains (Southern Italy)*

11.00 **Coffee break and poster session**

11.30 **Session IV - second part** *Ecosystem Services and territory*
Chairs **Rebekka Dossche** *and* **Roberto Bobbio**

Introductory talk *How much is nature worth — and to whom, when and where? Behavioural perspectives on environmental conservation*, **Lorenzo Lotti** (Bartlett School of Environment, Energy & Resources, University College London, UCL)

Papers and discussion
Coline Pacton (DAD, Università di Genova), *Beyond risk: understanding vulnerability through the "landscape in the making". An exploration of individual viticultural experiences in Bages (Spain) and the Cinque Terre (Italy)*
Yousuf Ali Ali (Università Cà Foscari, Venezia) and I. Ali (Leibniz Centre for Agricultural Landscape Research, ZALF), *Household adaptive capacity and climate-resilient livelihoods among small landholders in a mountainous region of Pakistan*
Iftikhar Ali and M. Spies (Leibniz Centre for Agricultural Landscape Research, ZALF), *Climate resilience in fragile mountain ecosystems: assessing vulnerability and adaptive capacity of high mountain farmers in northern Pakistan*
Yumna Ashraf and Li Hao (Beijing Institute of Technology – 北京理工大学), *Asymmetric dependency of strategic metal flow: evidence from nickel*
Amjad Ali and Barbara Cavalletti (DIEC, Università di Genova), *Bridging risk perception and actions: behavioral determinants for climate adaptation and ecological energy transition in Italy*

13.00 **Buffet Lunch**

14.00 **Concluding Reflections** - ***Practising complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation***

Introductory talk *A multi-country comparison of the environmental and social outcomes from diversified agriculture*", **Laura Vang Rasmussen** (Institut for Geovidenskab og Naturforvaltning, Københavns Universitet)

14.30 ***Costruire nuovi dialoghi per lo sviluppo sostenibile e la conservazione attiva delle aree rurali e montane*** **(***Building new dialogues for the sustainable development and active conservation of rural and mountains areas*)

Barbara Cavalletti e **Giorgio Boni** dialogano con **Elisa Ravazzoli** (EURAC Research, Bolzano), **Giuliana Biagioli** (European Climate Pact Ambassador in Italy), **Daniela Minetti** (Settore Politiche della Natura e della Fauna Selvatica, Direzione Generale Agricoltura, Aree Protette e Natura, Regione Liguria), **Giovanni Minuto** (Centro di Sperimentazione e Assistenza Agricola di Albenga, CeRSAA), **Maxime Schmitt** (Casa delle Semenze, Ceriana), **Adriana Ghersi** (DAD, Università di Genova)

15.45 ***Coffee Break***

16.15 ***Praticare la gestione sostenibile delle aree rurali e montane: esperienze a confronto*** *(Practising sustainable management of rural and mountain areas: a comparison of experiences*)

Anna Maria Stagno e **Marco Benvenuto** dialogano *con* **Marco Bussone** (Presidente Unione Nazionale Comuni ed Enti Montani), **Damiano Penco** (Settore Politiche della Natura e della Fauna Selvatica, Regione Liguria), **Alessia Donati** (Coordinatrice della Giovine Orchestra Genovese), **Anna Manca** (Presidente di ConfCooperative Liguria), **Francesco Marchese** (Parco Nazionale Cinque Terre), **Fabrizio Bottari** (Consorzio della Quarantina – Comunione Familiare di Bosco Fontana), **Emidia Lantrua** e **Paolo Ramella** (Strada della Cucina Bianca di Mendatica)

17.30-18.00 **Closing Ceremony**

POSTER SESSION

Melese Genete Muluneh (Wollo University), *Perception of land rehabilitation practices has been improved in northeastern Ethiopia despite ongoing challenges*

Iram Parvez (DICCA, Università di Genova), *et al., Exploring machine learning models to detect outliers and multistep forecasting of temperature and groundwater sensor networks*

Raquel Sarria Acosta (DIGI, Università di Genova), *The commons in legal and political thought: mapping debates and proposals*

Yacine Torche (Abdelhafid Boussouf, University Center of Mila – جامعة ميلة), *Genetic diversity as hidden climate resilience capital for the endangered North African Oak Quercus afares in Mediterranean forest ecosystem*

Giorgia Frangioni (DIBRIS, Università di Genova), *Rural archaeology andsSeasonal occupation of space: comparing Alpine and Apennine case studies*

Adele Repetto (LASA, Università di Genova), *Pastoral practices and environmental resource management in the sturla valley (17th-18th centuries): a micro-analytical approach to territorial vulnerability*

Laura Moro (LASA, Università di Genova), *Environmental risk, rural landscapes and road networks: historical and archaeological approaches between Piedmont and Liguria (18th–21st century)*

Ylenia Paciotti (DIRAAS, Università di Genova), *Hydraulic and rural archaeology in a Southern Europe mountain landscape. Resource management between the 18th and 21st centuries*