PERSONAL INFORMATION

Claudio Schifanella



Curriculum Vitae

Date of birth: 15-11-1975
Place of birth: Chivasso (TO), Italy
Nationality: Italian
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CURRENT POSITION

01/11/2021 – present **Associate Professor**
Department of Computer Science, University of Turin
Member of the Social Computing research group.

RESUME

Claudio Schifanella has been an Associate Professor at the Department of Computer Science of the University of Turin since November 2021, where he is a member of the Social Computing research group. He received his PhD in Computer Science from the University of Turin in 2008 and, before joining the department as a fixed-term researcher (type A in 2017, type B in 2018), carried out research both in academia and at industrial and international research centres: the RAI Research and Technological Innovation Centre in Turin and the European Commission's Joint Research Centre in Ispra.

His research, which began in knowledge representation and automated reasoning, has developed through big data and social media analysis, artificial intelligence and civic technologies, and in recent years has focused on blockchain and decentralized architectures. His main topics are tokenization and token economy design for local communities and collaborative economies, decentralized autonomous organizations (DAOs), blockchain interoperability, decentralized data marketplaces and the use of Large Language Models for smart contract development. He is the scientific coordinator of CommonsHood, the blockchain wallet app for local communities developed and tested in many European, national and regional projects, including CO3 (H2020), Co-City (UIA), NLAB4CIT, CORPUS (DUT Partnership), WeGovNow! (H2020), the PRIN project Blockchain for All and the AGRITECH National Research Centre (NRRP).

He collaborates regularly with Italian and international research groups, including Politecnico di Torino, the LINKS Foundation, Tallinn University of Technology, Arizona State University and the partners of the European consortia he has been part of. He supervises several PhD students of the University of Turin and of the National PhD Programme in Blockchain and Distributed Ledger Technology.

He is the author of more than 100 scientific publications, including 19 journal articles, 77 papers in international conference and workshop proceedings and 8 edited volumes (source: DBLP). Since 2022 almost all of his work has been on blockchain. He has an H-index of 18 on Google Scholar and 15 on Scopus, and more than 2000 citations.

He holds several positions of responsibility: he is President of the Technical-Scientific Committee of CSI-Piemonte, member of the faculty board of the National PhD Programme in Blockchain and Distributed Ledger Technology, head of the University of Turin local node of IBSI (Italian Blockchain Service Infrastructure), head of the local node of the CINI Informatics and Society Laboratory, member of the steering committee for the teaching activities of the Italian DLT Group, member of the Executive Board of the Department of Computer Science and President of the internship committee of the Computer Science degree programme. He is Topic Editor of a Frontiers in Blockchain Research Topic and is active in organizing scientific conferences: Program Chair of ACM GoodIT 2026, General co-chair of JURIX 2025, Workshop and Program Chair of DLT 2024, and chair of the BANDIT special track at GoodIT (2023–2026) and of the FPDAPP and SIDEWAYS workshops.

EDUCATION

14/01/2008 **PhD in Computer Science**

University of Turin
Thesis: "Reasoning on web services with choreographies and capabilities"
Topic: automated reasoning for interoperability
Supervisor: Prof. Alberto Martelli
Co-supervisor: Prof. Matteo Baldoni (Department of Computer Science, University of Turin)

11/04/2003 **Master degree in Computer Science**

University of Turin, Faculty of Mathematical, Physical and Natural Sciences
Final grade: 110/110 cum laude
Thesis: "Design and implementation of a knowledge-based system for the management of audio-visual material" — carried out in collaboration with the RAI Research Centre in Turin
Supervisor: Prof. Matteo Baldoni
Co-examiner: Prof. Giovanni Maria Sacco (Department of Computer Science, University of Turin)

RESEARCHER PUBLIC IDS

ORCID	https://orcid.org/0000-0001-7449-6529
Scopus	https://www.scopus.com/authid/detail.uri?authorId=55990754900
WoS	https://www.webofscience.com/wos/author/record/53419289
DBLP	https://dblp.org/pid/13/207.html
Google Scholar	https://scholar.google.com/citations?user=MNw82SUAAAAJ&hl=en

RESEARCH EXPERIENCE AT PRIVATE AND INTERNATIONAL RESEARCH CENTERS

10/2014 – 10/2016 **Researcher — RAI Research and Technological Innovation Centre**

Turin, Italy

Research areas: artificial intelligence, knowledge representation and integration, multidimensional data analysis, social and information networks. Industrial partnership with Sisvel S.p.A.

12/2013 – 10/2014 **Post-doc research fellow — Joint Research Centre (European Commission)**

Institute for the Protection and Security of the Citizen, Ispra (VA), Italy

Research areas: artificial intelligence, heterogeneous data integration, fraud detection systems.

RESEARCH EXPERIENCE AT THE UNIVERSITY OF TURIN

01/11/2018 – 31/10/2021 **Fixed-term Researcher (type B, tenure track)**

Department of Computer Science, University of Turin

Member of the Social Computing research group.

28/09/2017 – 31/10/2018 **Fixed-term Researcher (type A)**

Department of Computer Science, University of Turin

Member of the Social Computing research group.

01/2017 – 09/2017 **Research fellow**

Department of Computer Science, University of Turin
Project: "Management of multidimensional geographic data"
Scientific supervisor: Prof. Guido Boella

Research area: indexing, analysis and visualization of multidimensional geographic data.

11/2016 – 12/2016 **Research grant**

Department of Computer Science, University of Turin
Project: "Development of the WeGovNow! platform"
Scientific supervisor: Prof. Guido Boella

Research areas: indexing, analysis and visualization of multidimensional geographic data.

02/2016 – 08/2016 **Research grant**

Department of Computer Science, University of Turin
Project: "Development of the backend of the FirstLife social network"
Scientific supervisor: Prof. Guido Boella

Research areas: indexing, analysis and visualization of multidimensional geographic data.

07/2015 – 10/2015 **Research grant**

Department of Computer Science, University of Turin
Project: "Development of the database for Librare"
Scientific supervisor: Prof. Guido Boella

Research areas: indexing, analysis and visualization of multidimensional geographic data.

02/2015 – 04/2015 **Research grant**

Department of Computer Science, University of Turin
Project: "Indexing of multi-dimensional and geo-referenced data"
Scientific supervisor: Prof. Guido Boella

Research areas: indexing, analysis and visualization of multidimensional geographic data.

03/2012 – 11/2013 **Research fellow**

Department of Computer Science, University of Turin
Project: "Characterization, Specification, Recognition and Prediction of Events in Social Media"
Scientific supervisor: Prof. Maria Luisa Sapino

03/2008 – 02/2012 **Research fellow**

Department of Computer Science, University of Turin
Project: "Analysis of textual and multimedia documents, oriented towards efficient visualization and navigation on mobile devices (in applications aimed at entertainment or rehabilitation)"
Scientific supervisor: Prof. Maria Luisa Sapino

11/2006 – 02/2008 **Research grant — Fondazione CRT, Lagrange Project**

Partner: RAI Research Centre, Turin
Project: "On-demand orchestration of metadata extraction processes from multimedia objects: an approach based on automated reasoning techniques"

Recipient of one of the research grants offered by Fondazione CRT within the Lagrange Project, on topics related to the study, management and organization of complex systems.

11/2003 – 10/2006 **Doctoral scholarship**

University of Turin

Recipient of a three-year scholarship for the PhD programme in Computer Science.

04/2003 – 06/2003 **Research grant**

Department of Computer Science, University of Turin
Project: "Development of Web site management systems based on the Object Oriented paradigm"
Scientific supervisor: Prof. Matteo Baldoni

OTHER PROFESSIONAL EXPERIENCE

07/2003 – 12/2003 **Consultant — Technology Reply Turin (Oracle partner)**

Design and development of multi-tier applications based on the Oracle platform (both database and application server) and J2EE.

1997 – 2003 **Teacher — Centro Studi Torino**

Individual and group computer science courses on various topics: programming languages such as C, Java, HTML, Javascript, the Microsoft Office suite, and courses for the European Computer Driving Licence (ECDL).

POSITIONS OF RESPONSIBILITY IN ACADEMIA

2026 **Topic Editor — Frontiers in Blockchain**

Link: https://www.frontiersin.org/research-topics/70641/blockchain-and-tokenomics-for-sustainable-development-volume-ii

Topic Editor of the Research Topic "Blockchain and Tokenomics for Sustainable Development, Volume II", together with Charalampos Alexopoulos and Enrico Ferro.

10/2024 – ongoing **President of the Technical-Scientific Committee of CSI-Piemonte**

Link: https://www.csipiemonte.it/en

As a representative of the University of Turin.

2023 – ongoing **Head of the University of Turin local node of IBSI, Italian Blockchain Service Infrastructure**

Link: https://www.progettoibsi.org/

2022 – ongoing **Head of the local node of the CINI Informatics and Society (IeS) Laboratory**

Link: https://www.consorzio-cini.it/index.php/it/laboratori-nazionali/lab-informatica-e-societa

2022 – ongoing **Member of the steering committee for the teaching activities of the DLT Group**

Link: https://dltgroup.it/

Italian Distributed Ledger Technology Working Group (CINI working group on Blockchain).

2022 – ongoing **Member of the Executive Board (Giunta) of the Department of Computer Science**

University of Turin

2022 – ongoing **Member of the laboratories committee**

Department of Computer Science, University of Turin

2022 – ongoing **President of the internship committee of the Degree Programme Council (CCS) in Computer Science**

University of Turin

2022 – ongoing **Member of the scientific committee of the first-level Master's programme in Cybersecurity**

University of Turin
Link: https://www.mastercybersecuritytorino.it/

2022 – ongoing **Member of the faculty board of the National PhD Programme in Blockchain and Distributed Ledger Technology**

PARTICIPATION IN INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

CommonsHood — a blockchain wallet app for local communities

2017 – ongoing Development: co-designed and tested within several funded projects: Co-City (UIA), CO3 (H2020), NLAB4CIT (Smart Local Administration), CORPUS (DUT Partnership, MUR); also adopted in BLOCCHI, COSO, CommonsHood in the Garden / ORTO SME, FOOD REBORN, FUTURAMA and TECNOPROFEZIE

Role: Scientific coordinator

Link: https://www.commonshood.eu/ — app: https://dapp.commonshood.eu

CommonsHood is a blockchain-based wallet app that lets citizens, associations, retailers and institutions create and exchange digital tokens representing local values, resources and financial instruments, without writing code. Its goal is to support financial inclusion and social, collaborative and sustainable economies at the scale of neighbourhoods, cities and towns, towards an "Internet of Value 2.0" in which anyone can issue and circulate new kinds of value, not only information.

Starting from smart contract templates, users can create coins (prepaid cards, cashback schemes, complementary currencies), coupons (discounts, access rights to shared goods, tickets), crowdsales for crowdfunding and group buying, and NFTs for collectibles, tickets, badges and certificates. Each token comes with a natural-language "manifest" that links it to the social rules of the community issuing it. The platform also provides token exchange between users, loyalty circuits among local businesses, libraries of things with digital twins (NFTs) of lent objects, and a "task box" inspired by time banks.

Organisations (commons, associations, retailers, institutions) are geolocated on the map of the FirstLife civic social network, which is connected to CommonsHood. The application has reached Technology Readiness Level 7 and was evaluated in the two Urban Living Labs of the CORPUS project in Turin and Egaleo (Greece).

CommonsHood is also the platform on which research results on tokenization models for local communities are tested in the field: the token economy models, incentive schemes and governance tools developed in the research activities are implemented in the app and validated together with the communities involved in the pilot projects.

Projects

09/2024 – 02/2027 (30 months) — **DESPITE FRAUD — Wireless Decision Support System against food quality fraud**

Programme: SWIch call — Support for research and development activities and for the economic exploitation of innovation, Piedmont Region ERDF Regional Programme 2021–2027 (Priority I, Action I.1i.1) (https://www.regione.piemonte.it/web/temi/fondi-progetti-europei/fondo-europeo-sviluppo-regionale-fesr/bando-swich-sostegno-alle-attivita-ricerca-sviluppo-alla-valorizzazione-economica-dellinnovazione)

Role: Leader of the work package on blockchain-based notarization and certification

Link: https://despitefraud.it/

Partners: Informatica System (coordinator), Akronos Technologies, Asseltech, Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Politecnico di Torino (DISAT), University of Turin (Department of Computer Science), Esselunga, GESCO (Amadori)

The project develops a decision support platform, based on a wireless portable device with non-destructive spectroscopic sensors (NIR and Raman) and on machine learning algorithms, to check the authenticity of food products on site: in particular, to tell fresh from thawed fish products and to identify meat products containing mechanically separated meat. The tool lets companies in the food supply chain quickly check incoming goods and verify that labelling is correct, protecting both businesses and consumers. The results of the checks are notarized and certified on a blockchain to guarantee their integrity and traceability.

2023 – ongoing — **CORPUS — Phygital Models of Cooperation in the Retrofitting of Public Space**

Programme: DUT Programme, Driving Urban Transitions — Sustainable future for cities (https://dutpartnership.eu/); funded by the European Union (DUT Partnership), Italian Ministry of University and Research (MUR), GSRI (Greece), NWO (Netherlands)

Link: https://corpusproject.eu/

Partners: University of Turin (Departments of Computer Science and ESOMAS), TU Delft, Open Lab Athens, FBW, Municipality of Egaleo, District IV of the City of Turin

European research project studying Urban Circular Economy models for the retrofitting of public spaces through two pilot projects (Urban Living Labs) in Turin and Egaleo (Greece), focused on reuse and upcycling of materials, participatory processes and civic technologies. The CommonsHood platform is extended to support different "libraries of things" models, enabling exchanges of tangible and intangible value to encourage the participation of local actors in circular and collaborative economies in urban communities.

2022 – 2026 — **AGRITECH — National Research Centre for Agricultural Technologies**

Programme: NRRP (PNRR) MUR — M4C2 (Mission 4 Component 2) Investment 1.4

Link: https://agritechcenter.it

2024 – 2025 — **POLINE — Principles Of Law In National and European VAT**

Programme: EU JUST-AG call

2023 – 2025 — **BLOCCHI — Blockchain for tourism, hospitality and culture of mountain communities**

Programme: HUB NODES, Spoke 4 (Digital and Sustainable Mountains), Academic PoCs

Link: http://www.blocchi.di.unito.it

Partners: no technical partners; with the support of UNCEM, GAL EVV and Cooperativa NEMO

The project develops and tests a blockchain-based platform, integrating CommonsHood features and the FirstLife interactive map, to support sustainable tourism and encourage visitor flows towards mountain areas. Tokenization makes it possible to build incentives and itineraries that encourage visits to lesser-known places and services and purchases from shops offering local and sustainable products.

2023 – 2025 — **B4A — Blockchain for All**

Programme: PRIN 2022 — 20225MN5K3

Link: https://www.blockchain4all.it/

2023 – ongoing **COSO — Comunità Organizzata per Scambio Oggetti (Organised Community for Object Exchange)**

Programme: Fondazione CRT; DUT Partnership (through CORPUS)
Link: http://www.progettocoso.org
Partners: Associazione Les Petites Madeleines (lead), District IV of the City of Turin, University of Turin (Department of Computer Science), Ecoborgo Campidoglio, Associazione Sardi Torino Antonio Gramsci; in collaboration with Vivilibron Campidoglio and the EYE – European Youth Empowerment project

A community of people committed to responsible consumption (reuse, recycling, waste reduction, sharing) that has set up a "Library of Things" in the Borgo Campidoglio neighbourhood of Turin. Exchanges are supported by the CommonsHood app, which lets participants manage loans collaboratively and generate a local community currency (the "COSO") that rewards relationship-building exchanges.

2023 – ongoing **CommonsHood in the Garden / ORTO SME**

Programme: New European Bauhaus – EIT Food; Fondazione CRT; DUT – Driving Urban Transitions
Link: http://www.commonshoodinthegarden.it
Partners: University of Turin — Departments of Economics, Social Sciences, Mathematics and Statistics; Management; Computer Science

The project supports students and citizens in managing the collective garden "Orto della SME" of the School of Management and Economics (University of Turin) according to principles of inclusiveness and sustainability. Participation is symbolically rewarded with tokens managed by the CommonsHood blockchain app, which can be spent in local shops and associations to support local economic cycles and the urban social economy.

ongoing **TECNOPROFEZIE**

Programme: PON Metro REACT-EU funds (City of Turin)
Link: http://www.mufant.it
Partners: MUFANT Museum, in collaboration with the University of Turin (Department of Computer Science and Department of Philosophy and Educational Sciences), ASL Torino, the social cooperatives Altra Mente and Stranaidea, and the NGO CIFA

The project uses science fiction to bring people closer to digital innovation through cultural, educational and social activities. CommonsHood was the subject of a training course for young and adult NEETs on blockchain technology and its civic uses, and on the potential of non-fungible tokens (NFTs) in the art world.

FUTURAMA — New models for digital and creative education

Programme: Fondazione Con I Bambini — Fund for combating educational poverty
Link: http://www.fcagrigentotrapani.it
Partners: Fondazione Comunitaria di Agrigento e Trapani (lead), University of Turin (Department of Computer Science), Associazione Centro ELIS, Beehive Società Cooperativa Sociale, ISS G.B. Odierna, IISS "Sciascia e Bufalino", IUSTO – Istituto Universitario Salesiano Torino

The project promotes basic STEAM skills among 14–17 year-olds in the provinces of Agrigento and Trapani through educational paths for third- and fourth-year high-school classes. The workshop "CommonsHood – Blockchain for local communities" focuses on blockchain technology and its civic and community uses and on collaborative and circular economies: starting from CommonsHood and the COSO project, classes go through the co-design, testing and piloting of a blockchain-based civic platform, enabling a school-level "library of things".

FOOD REBORN

Programme: University of Turin, Proof of Value call

Partners: University of Turin (Department of Cultures, Politics and Society — coordinator; Department of Computer Science), WeCo (social enterprise), Eco dalle Città

The project tests an innovative food-welfare model in which food aid from surplus recovery is delivered through a network of social restaurants, offering beneficiary households non-stigmatising and economically sustainable consumption experiences. Through CommonsHood, the project designs a "social token" to enable an economically and socially sustainable food-surplus recovery system.

2019 – 2021 **CO3 — Digital Disruptive Technologies to Co-create, Co-produce and Co-manage Open Public Services along with Citizens**

Programme: H2020 — Grant Agreement 822615

Link: https://www.projectco3.eu/

Partners: University of Turin (IT), Flexiguided GmbH (DE), Unit Apes (DE), Anoixto Ergastirio Athinas Astiki Mi Kerdoskopiki Etaireia (EL), Dimos Athinaion Epicheirisi Michanografisis (EL), Fondazione LINKS (IT), Geomotion Games SL (ES), Fundació Universitària Balmes (ES), City of Turin (IT), Institut de Recherche et d'Innovation (FR)

CO3 aims to assess the risks and benefits of the following disruptive technologies: blockchain, augmented reality, geolocated social networks, liquid democracy tools and gamification in the co-creation, co-production and co-management of public services with citizens as partners of public administrations. The application developed by the project was tested in Turin, Athens and Paris; its blockchain wallet was used to study how cryptographic tokens can enable local micro-economies for the co-management of commons, community currencies and solidarity practices.

2021 – 2023 **NLAB4CIT — Network of Laboratories for Civic Technologies Co-production**

Programme: European Union, "Smart Local Administration" initiative (DG CNECT)

Link: https://nlab4cit.eu/

Partners: University of Turin (lead), Open Lab Athens, Howest University of Applied Sciences, VVSG, City of Collegno, Municipality of Kaisariani

The project aims to make public services more accessible through a network of local public administrations, research institutions and associations implementing co-production processes supported by civic technologies. It set up an online repository of technologies and participatory approaches and three local pilots in Roeselare (Belgium), Kaisariani (Greece) and Collegno (Italy). In Collegno, the CommonsHood app was used to innovate youth participation and to promote young people's access to local economic and socio-cultural services: young volunteers receive cryptographic tokens recognising their active engagement, which give them facilitated access to cultural events and commercial services.

2018 – 2021 **DLT4ALL — Decentralization goes mainstream!**

Programme: EU Erasmus+

Link: https://dlt4all.eu/

The aim of DLT4All is to address the lack of knowledge of the blockchain world and its applications among entrepreneurs and SMEs, students, investors and incubator managers. The project involves the creation and validation of a course covering the main topics related to blockchain technologies from different perspectives, not only the computer science one. The course will be available both online and offline and can be customized according to the profile of the professionals involved.

2017 – 2020 **Co-City**

Programme: Urban Innovative Actions (UIA), first call
Budget: 5 million euros overall
Link: http://www.uia-initiative.eu/en/uia-cities/turin
Partners: City of Turin, University of Turin (Department of Computer Science and Department of Law), ANCI (national), Fondazione Cascina Roccafranca, Rete delle Case del Quartiere

Co-City is the winning project of the first European Urban Innovative Actions call. The aim of the project is to support the creation of an ecosystem of urban commons through the use of technologies such as crowdmapping and blockchain. It piloted the City of Turin's Regulation on collaboration between citizens and the administration for the care, shared management and regeneration of urban commons (approved in January 2016); co-design activities with local actors defined, developed and tested the main features of the CommonsHood app and its application scenarios for the shared management of urban commons.

2019 – 2021 **PININ — PIemuNt chèINa**

Programme: POR F.E.S.R.
Link: http://www.pinin-project.eu/

The regional project PININ, funded through European funds, aims to increase the quality of high-end Piedmontese agri-food products, and the perception of that quality, by introducing technologies for the traceability and authentication of agri-food products, for innovation in the marketing of food supply chain products, and for the protection of the intellectual property rights of high-quality Piedmontese agri-food brands through the detection of counterfeits and fraud.

2019 – 2021 **TECH4MILK — Innovative technologies and solutions at the service of the Piedmontese milk supply chain**

Programme: POR F.E.S.R.
Link: https://tech4milk.com/

2016 – 2019 **WeGovNow!**

Programme: H2020
Budget: 4 million euros overall, 600k euros for UNITO
Link: http://www.wegovnow.eu/
Partners: University of Turin, University College London, Politecnico di Torino, Ruprecht-Karls-Universität Heidelberg, City of Turin, Municipality of San Donà di Piave, Empirica, Fondazione Giacomo Brodolini, Funka Nu AB, Infalia, London Borough of Southwark, LiquidFeedback, Mapping for Change CIC

European project aimed at using state-of-the-art technologies in an open platform for the implementation and support of participatory processes at the urban scale.

2018 – 2020 **CANP — La Casa nel Parco (The House in the Park)**

Programme: Piedmont Region, Health and Wellbeing Technology Platform call
Budget: 11.5 million euros, 1 million for the University of Turin
Link: http://casanelparco-project.it/

The CANP project won the IR20 award, Piemonte Innovazione e Ricerca, established by the Piedmont Region to promote a system that is fundamental to the development of the territory.

2017 – 2019 **BLINC — Inclusive blockchain for digital citizenship**

Programme: Piedmont Region, POR FESR 2014-2020
Role: Scientific coordinator of a remunerated agreement with companies of the consortium

Industrial research and experimental development project aimed at building a blockchain platform for the management of digital identities, data and value transactions, involving public administrations and service providers for migrants.

2015 – 2016 **LIBRARE — "Books in motion"**

Programme: Regional ERDF project
Link: http://www.librare.org/
Partners: University of Turin, CSP, Trim, Celi Informatica

Aims to transform the traditional paper book into a virtual object, turning places and books into intelligent social objects, according to the smart cities paradigm.

2015 – 2016 **SEeS@W — Sensing Safety at Work**

Programme: Regional ERDF project
Link: http://seesaw.di.unito.it/
Partners: University of Turin (Departments of Computer Science, Psychology, Law, Public Health and Pediatric Sciences, Occupational Medicine Section and Medical Sciences / SUISM), CSP, Consoft Sistemi SPA, aGrisù, Augeos, ERPlan, Nomotika, Sicurezza Lavoro

Deals with the technical and social aspects of safety in the workplace, turning workers into proactive actors in risk monitoring and management.

ORGANIZATION OF SCIENTIFIC CONFERENCES

2026 **L'innovazione che unisce**

Organizer of the conference "L'innovazione che unisce. Tecnologia, sostenibilità e nuove collaborazioni" (Innovation that unites: technology, sustainability and new collaborations; Turin, 14 October 2026), as President of the Technical-Scientific Committee of CSI-Piemonte; opening address and closing remarks (https://www.csipiemonte.it/it/evento/linnovazione-che-unisce).

2026 **EKAW 2026**

Local co-chair of EKAW 2026, The 25th International Conference on Knowledge Engineering and Knowledge Management, Turin, 29 September – 1 October 2026 (https://ekaw2026.di.unito.it/).

2026 **GoodIT**

Program chair of the GoodIT conference, ACM International Conference on Information Technology for Social Good.

2025 **CSI Xperience 2025**

Organizer of the conference "Public Digital Intelligence" CSI Xperience 2025, as President of the Technical-Scientific Committee of CSI-Piemonte (https://www.csipiemonte.it/it/evento/intelligenza-digitale-pubblica).

2025 **JURIX 2025**

General co-chair of JURIX 2025, The 38th International Conference on Legal Knowledge and Information Systems (https://jurix2025.di.unito.it).

2024 **NLDB 2024**

Local co-chair of NLDB 2024, The 29th International Conference on Natural Language & Information Systems (https://nldb2024.di.unito.it/).

2023–2026 (four editions) **BANDIT @ GoodIT**

Chair of the special track "Blockchain and Decentralized Technologies for Social Good (BANDIT)" within the GoodIT conference, ACM International Conference on Information Technology for Social Good.

2024 **DLT2024**

Workshop Chair and Program Chair of DLT2024 — 6th Distributed Ledger Technologies Workshop (https://dlt2024.di.unito.it/).

2018–2021 (four editions) **FPDAPP**

Chair of FPDAPP, International Workshop on Future Perspectives of Decentralized Applications (http://fpdapp.di.unito.it).

2015–2023 (eight editions) **SIDEWAYS**

Chair of Sideways, International Workshop on Social Media World Sensors (http://linc.iut.univ-paris8.fr/sideways/).

2014 **MSDM 2014**

Chair of the EDBT/ICDT International Workshop on Multimodal Social Data Management (http://hdm.di.unito.it/msdm2014/).

PHD STUDENT SUPERVISION

2026 **Silvio Meneguzzo**

PhD programme: National PhD Programme in Blockchain and Distributed Ledger Technology (University of Camerino / University of Turin) — 38th cycle
Thesis: "DAO Sustainability and Citizen Data Ownership: A Token-Driven Framework"
Supervisors: Claudio Schifanella (University of Turin), Valentina Gatteschi (Politecnico di Torino)
Link: https://smeneguz.github.io/

The thesis proposes a token-driven framework for the sustainability of decentralized autonomous organizations (DAOs) and for citizens' ownership of their data, with on-chain governance metrics to assess DAO sustainability and decentralized marketplaces for data exchange, in particular energy data.

2025 **Sowelu Elios Avanzo**

PhD programme: PhD in Computer Science, University of Turin — 37th cycle, PON grant "PhDs on Green topics"
Thesis: "A Model-Driven Method For Decentralized Autonomous Organization Development"
Supervisors: Claudio Schifanella, Alex Norta (Tallinn University)
Link: https://tesidottorato.depositolegale.it/handle/20.500.14242/214884

The thesis proposes DAOMod, a platform-independent model-driven method for designing and developing DAOs: an ontological meta-model with three tiers (organization, coordination, execution), two visual modeling languages and tool support that generates optimized smart contracts. The method was evaluated on real-world DAOs focused on societal impact and public value creation.

2023 **Fadi Barbàra**

PhD programme: PhD in Computer Science, University of Turin — 34th cycle
Thesis: "On Blockchains Interoperability and Privacy"
Link: https://tesidottorato.depositolegale.it/handle/20.500.14242/198187

The thesis studies blockchain interoperability and transaction privacy. It proposes decentralized protocols for transaction mixing (DMix), multi-user atomic swaps based on HTLCs and on time-locks, the exchange of tokenized bitcoins without time-locks, anonymous deliveries of physical products and decentralized payment processing.

2023 – ongoing **Irene Domenicale**

PhD programme: National PhD Programme in Blockchain and Distributed Ledger Technology, curriculum "Social systems and smart societies" — 39th cycle, ongoing
Topic: sustainability and social impact of blockchain technologies

TEACHING

2025/2026 – 2026/2027 **Blockchain, Distributed and Decentralized Systems (INF0422)**

Degree programme: Bachelor's degree in Computer Science, University of Turin — 3rd year, second semester (elective)
Credits: 6 ECTS (32 hours of lectures + 20 hours of lab)
Language: English
Role: co-lecturer
Link: https://laurea.informatica.unito.it/do/corsi.pl/Show?_id=2t92

2026/2027 (first edition) **Blockchain Technologies — Tecnologie Blockchain (INF0496)**

Degree programme: Master's degree in Computer Science, University of Turin — 1st and 2nd year, second semester
Credits: 9 ECTS (72 hours of lectures)
Language: Italian
Role: co-lecturer
Link: https://magistrale.informatica.unito.it/do/corsi.pl/Show?_id=g75u

5 editions **Blockchain & Payments**

Degree programme: First-level Master's programme in Cybersecurity, University of Turin
Credits: 6 ECTS (60 hours of lectures + 90 hours of individual study)
Role: co-lecturer
Link: https://www.mastercybersecuritytorino.it/struttura-didattica-e-programma/

2024/2025 – 2025/2026 **Blockchain technologies: from decentralised consensus to programmable trust and applications**

Degree programme: PhD in Computer Science, University of Turin
Credits: 6
Language: Italian
Role: co-lecturer
Link: https://dott-informatica.campusnet.unito.it/do/corsi.pl/Show?_id=d81f

PhD course on open research problems in decentralized systems: a technical introduction to blockchain starting from Bitcoin, programmable trust on blockchains such as Ethereum, Algorand or Tezos, and a selection of key applications.

2022/2023 – 2026/2027 **Computer Architecture — Architettura degli Elaboratori (INF0326)**

Degree programme: Bachelor's degree in Computer Science, University of Turin — 1st year, second semester
Credits: 6 ECTS (32 hours of lectures + 20 hours of lab)
Language: Italian (English-friendly course)
Role: lecturer of Course C
Link: https://laurea.informatica.unito.it/do/corsi.pl/Show?_id=7x2d

SUPERVISION OF BACHELOR'S AND MASTER'S THESES

Supervisor of 79 theses in Computer Science at the University of Turin: 7 Master's theses and 72 Bachelor's theses, between academic years 2018/2019 and 2025/2026.

The theses largely deal with blockchain technologies and are closely linked to his research activities and to the platforms developed in his projects, in particular CommonsHood and FirstLife. On the blockchain side, they range from infrastructures (Ethereum and Hyperledger Besu networks with Proof-of-Authority consensus, IPFS, indexing of events on EVM blockchains) to smart contract development and analysis, up to more recent topics such as account abstraction

and smart accounts based on EIP-7702, DAOs and upgradeable smart contract patterns, NFTs and multi-chain marketplaces, Self-Sovereign Identity, supply chain traceability and insurance applications. A central strand is tokenization for local communities and civic participation, with theses that contributed to CommonsHood (a decentralized exchange, object lending, NFTs, task and community event management, civic proposals, gamification for citizen data science) and to the PININ and BLINC projects. Alongside blockchain, the theses addressed artificial intelligence (multi-agent systems, human-in-the-loop Agentic AI, knowledge graphs, machine learning), 5G Broadcast, the FirstLife civic platform and, within company internships, web application development and process automation with low-code tools.

Thesis titles are given in their original language.

Master's theses

Academic year 2025/2026

- Alessandro Lucco-Castello — *Progettazione e manutenzione evolutiva di un sistema di misura e visualizzazione per segnali 5G-Broadcast*

Academic year 2023/2024

- Raluca Andreea Bibire — *Is it complex? An Approach based on Feature Extraction and Machine Learning Models for Basicness Computation* (co-supervisors: Luigi Di Caro, Federico Torrielli; thesis in English)
- Michele Staffieri — *Studio e sviluppo di strumenti per la partecipazione civica basati su blockchain per la piattaforma FirstLife*

Academic year 2022/2023

- Andrea Mattone — *Progettazione e realizzazione di un sistema di democrazia partecipata basato su blockchain per la gestione di proposte civiche*

Academic year 2021/2022

- Giulia Monticone — *Progettazione e realizzazione di un sistema di raccomandazione di contenuti per la piattaforma FirstLife* (co-supervisors: Guido Boella)

Academic year 2020/2021

- Alessandro Rosso — *Progettazione e realizzazione di una architettura basata su container e microservizi per la Piattaforma FirstLife* (co-supervisors: Guido Boella; thesis in English)
- Eleonora Sandrone — *Realizzazione di una piattaforma per l'analisi del flusso di dati in una blockchain Ethereum*

Bachelor's theses

Academic year 2025/2026

- Alfonso Cocchiarelli — *Manutenzione evolutiva della piattaforma web3 Public Pressure: dal supporto multichain all'adozione di un graph DB*
- Nicola Delahays — *Progettazione e sviluppo di un sistema basato su blockchain di gestione di polizze e sinistri in campo assicurativo*
- Alex Dibartolo — *Applicazione Web Human-in-the-Loop e Agentic AI a supporto della catalogazione semantica basata su Knowledge Graph per il Digital Heritage*
- Manuel Raimo — *Manutenzione evolutiva dell'indexer blockchain per la piattaforma CommonsHood: da The Graph a Ponder*
- Mattia Re — *Progettazione e sviluppo di una applicazione web per la gestione delle proposte di tirocinio curriculare*
- Marco Zappalà — *Progettazione e sviluppo di un motore di gamification per la citizen data science basato su blockchain e token fungibili e non fungibili*

Academic year 2024/2025

- Ignazio Abbate — *Progettazione e realizzazione di un sistema di creazione e gestione di Non-Fungible Token per la piattaforma CommonsHood*
- Alessandro Bertucci — *Studio e sperimentazione delle caratteristiche dell'EIP7702 per la blockchain Ethereum*
- Federico Bertucci — *Studio dei sistemi di indicizzazione degli eventi di blockchain basate su EVM*
- Gabriele Buoso — *Automazione della Gestione della Conoscenza Aziendale tramite Architetture Multi-Agente*
- Giacomo Codagnone — *Realizzazione di un sistema di gestione di eventi di comunità basato su token per la piattaforma CommonsHood*

- Simone Ferrarese — *Manutenzione evolutiva di un'applicazione web per la gestione delle anagrafiche clienti*
- Alberto Formica — *Progettazione e realizzazione di una applicazione per la gestione degli abbonamenti su mobile store*
- Marco Nardi — *Progettazione e implementazione di un sistema di Smart Account basato su EIP-7702 per la piattaforma social good CommonsHood*
- Andrea Peluso — *Progettazione e sviluppo di un modulo di gestione dei contenuti multimediali per la piattaforma FirstLife*
- Piergiorgio Rodilosso — *Integrazione del 5G Broadcast in un client DVB-I*
- Mattia Sarzotto — *Design and Development of a token-based Task Management System for the CommonsHood Platform*
- Antonio Ventrice — *Un sistema per la gestione di proposte civiche basate su token per la piattaforma CommonsHood*
- Emanuele Vernetti — *Sviluppo e integrazione di motori AI open source per l'ottimizzazione dei processi aziendali*

Academic year 2023/2024

- Andrea Brusco — *Sviluppo di un Sistema Full-Stack basato su Angular e Quarkus per la gestione di questionari degli utenti*
- Viorel Iulian Nastasa — *Progettazione sviluppo di un ATS (Applicant Tracking System)*

Academic year 2022/2023

- Francesco Barbara — *Progettazione e sviluppo di un framework multi-chain per marketplace di NFT artistici multimediali*
- Matteo Barone — *Implementazione di un sistema per il tracciamento della filiera produttiva basato sulla blockchain Algorand*
- Lorenzo Ceccon — *Progettazione e sviluppo di una applicazione per la gestione e il monitoraggio degli ordini in una catena industriale automatizzata*
- Stefano Chiavuzzo — *Un approccio basato su blockchain e Self Sovereign Identity per la certificazione di competenze in azienda*
- Stefano Cipolletta — *Sviluppo di una applicazione desktop per la raccolta ed il monitoraggio dei dati di videogiocatori*
- Matteo Marengo — *Progettazione e implementazione di un sistema di condivisione di account per piattaforme di servizi: un approccio basato su blockchain*
- Simone Mastella — *Progettazione e realizzazione di un sistema di smart contract per la gestione dei diritti degli artisti in ambito musicale*
- Alessia Pirri — *Sviluppo di un agente conversazionale per un processo di automazione industriale*
- Gabriele Santoro — *Progettazione e realizzazione di una architettura modulare ibrida per i servizi di backend di un marketplace di NFT*
- Emanuele Spadaro — *Un sistema per la gestione di Decentralized Autonomous Organizations basato sul Diamond Proxy Pattern per la piattaforma blockchain CommonsHood*

Academic year 2021/2022

- Stefano Baviello — *Sviluppo di una applicazione decentralizzata basata su NFT per un caso d'uso all'interno del progetto PININ*
- Andrea Birritteri — *Un sistema di gestione degli accessi basato su smart contract per la memorizzazione di file su una rete IPFS per il progetto Andromeda*
- Mattia Cappellino — *Protocolli di comunicazione Schneider nel settore dei trasporti*
- Gianni Carignano — *Sviluppo evolutivo di una single page web application aziendale e integrazione con hardware industriale*
- Alessandro De Marco — *Progettazione e realizzazione di un sistema per la creazione e gestione di Non Fungible Token per la piattaforma CommonsHood*
- Luca Modica — *Progettazione e realizzazione di un modulo di gamification per la piattaforma FirstLife*
- Raoul Rondinella — *Integrazione tra servizi di autenticazione e blockchain: come gestire wallet crittografici*
- Antonella Sansone — *Trasformazione digitale dei processi autorizzativi aziendali: un caso di studio con la piattaforma Microsoft 365*
- Davide Tarditi — *OneConnect Platform: un approccio unificato per la gestione e mantenimento di gestionali aziendali*

- Nicolò Vanzo — *Realizzazione di un sistema GameFi play-to-earn basato su token crittografici e blockchain*
- Lorenzo Zeni — *Analisi di un marketplace di token non fungibili e implementazione di uno smart contract per la loro creazione su blockchain*

Academic year 2020/2021

- Giulio Campelli — *Power Platform: automatizzazione di processi aziendali tramite l'uso del paradigma low-code*
- Maurizio Capone — *Studio e implementazione di un sistema d'aste realizzato tramite smart contract su blockchain Ethereum per la vendita di token non fungibili*
- Riccardo Dolza — *Studio e realizzazione di un sistema di autenticazione per il supporto alla gestione di wallets crittografici su blockchain Ethereum*
- Flavio Francioso — *Progettazione e realizzazione di un sistema di microtransazioni basato su Blockchain*
- Shao Hao Hu — *Progettazione e realizzazione di un exchange decentralizzato per lo scambio di token ERC20 per la piattaforma CommonsHood*
- Marco Lauria — *Studio e realizzazione di un framework di analisi del bytecode degli smart contract di una infrastruttura blockchain Ethereum*
- Luca Magliaro — *Utilizzo del paradigma low code e della piattaforma Microsoft 365 per l'automazione dei processi aziendali*
- Francesco Magliocca — *Manutenzione evolutiva di una applicazione per la gestione e reportistica delle risorse aziendali*
- Andrea Mattone — *Progettazione e realizzazione di una applicazione web per la gestione dei meccanismi di elezione dei nodi sealer all'interno di blockchain Ethereum Proof-of-Authority*
- Giorgio Mecca — *Studio e realizzazione di un prototipo di un sistema basato su blockchain per il mobility as a service*
- Mattia Mocci — *Manutenzione evolutiva di una applicazione aziendale attraverso l'uso delle tecnologie per lo sviluppo di single page web application*
- Leonardo Muscolino — *Hyperledger Besu e Go-Ethereum: analisi e progettazione di una rete ibrida Proof of Authority*
- Andrea Salemi — *Progettazione e sviluppo di una applicazione web di visualizzazione e navigazione dati attraverso il framework Svelte*
- Marco Scarnato — *Progettazione e realizzazione di una piattaforma di certificazione di documenti basata su blockchain*
- Calogero Jerik Scozzaro — *Progettazione e realizzazione di una applicazione web per l'erogazione dei crediti di utilizzo all'interno di una blockchain basata su tecnologia Ethereum*
- Luca Scutti — *Progettazione e realizzazione di un sistema di prestito di attrezzature basato su blockchain per la piattaforma CommonsHood*
- Alessandro Soddu — *Progettazione e Realizzazione in Flutter di un sistema di sondaggi per la piattaforma FirstLife*

Academic year 2019/2020

- Davide Marando — *Manutenzione evolutiva di una applicazione per la gestione delle presenze: il caso di Schneider Electric*
- Francesco Marongiu — *Modello di gestione dei crediti e strategie di checkpointing per una blockchain consortile regionale*
- Matteo Mondini — *Gestione degli accessi tramite consenso distribuito per una blockchain in cloud*
- Riccardo Alberto Niglio — *Studio e implementazione di una Decentralized Autonomous Organization basata su tecnologia blockchain*
- Alessandro Parrotta — *La Catena Del Freddo in campo agroalimentare: Un approccio basato su Blockchain*
- Michele Staffieri — *Studio e sviluppo di un sistema di gestione di token non fungibili basato su tecnologie blockchain per il progetto CommonsHood*
- Sara Touti — *Sviluppo di Smart Contract e valutazione dei risultati per il progetto BLINC*
- Riccardo Vicario — *Fiscal Agent Service: analisi del caso di una banca depositaria italiana*
- George Adrian Vitelus — *Creazione di un nodo Ethereum su piattaforma Raspberry PI e gestione dei nodi validatori in una rete consortile Proof-of-Authority*

Academic year 2018/2019

- Gabriele Lavorato — *Sviluppo di una applicazione Android decentralizzata per la piattaforma Ethereum*
- Danilo Modica — *IPFS: un protocollo per l'archiviazione e condivisione di dati in un file system decentralizzato*

- Federica Pitrone — *Manutenzione evolutiva di un sito web attraverso la realizzazione di una Single Page Application*
- Marco Sappé Griot — *Approccio decentralizzato alla gestione dei documenti*

PUBLICATIONS

Claudio Schifanella's research activity began in 2008 with his master's degree thesis in collaboration with the RAI Research Center on the topic of knowledge representation and reasoning mechanisms ("Design and implementation of a knowledge-based system for the management of audio-visual material"). Over the years, the research activity has developed on different topics that include knowledge representation, data mining and analysis of big data, artificial intelligence, blockchain and decentralized architectures, civic technologies.

Claudio Schifanella has carried out his research activity both in academia, at the University of Turin, and in Italian (RAI Research Center) and international (Joint Research Center) research centers.

He is the author of more than 100 scientific publications in international journals and conferences. He has an H-Index of 18 on Google Scholar and 15 on Scopus. His papers have exceeded 2000 citations.

Below is a list of the most significant.

Forthcoming

- Boella, G., Viano, C., Schifanella, C, (forth.) Blockchain and tokenisation for local communities. In S. Cao & M. Foth (Eds.), Blockchain for Good: The Transformative Impacts on Industry, Community and the Planet. CRC Press. ISBN 9781032598062.

2026

- Emanuele Antonio Napoli, Noemi Romani, Valentina Gatteschi, Claudio Schifanella. "Light and shadows of smart contract development with LLMs", Expert Systems with Applications, Volume 296, Part B, 2026, 129011,ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2025.129011
- Silvio Meneguzzo, Claudio Schifanella, Valentina Gatteschi, and Giuseppe Destefanis. 2026. Operationalising DAO Sustainability KPIs: A Multi-Chain Dashboard for Governance Analytics. In Proceedings of the 3rd IEEE/ACM Workshop on Software Engineering Challenges in Financial Firms (FinanSE '26). Association for Computing Machinery, New York, NY, USA, 9--17. https://doi.org/10.1145/3786170.3788388
- Alexopoulos, C., Ferro, E., & Schifanella, C. (2026). Editorial: Blockchain and tokenomics for sustainable development, volume II. Frontiers in Blockchain, 9, 1952615. https://doi.org/10.3389/fbloc.2026.1952615 — Research Topic: https://www.frontiersin.org/research-topics/70641/blockchain-and-tokenomics-for-sustainable-development-volume-ii/magazine
- Domenicale, I., Avanzo, S., & Schifanella, C. (2026). A Design-Stage Diagnostic Tool for Tokenized Collaborative Economies. Proceedings of the 2026 International Conference on Information Technology for Social Good, GoodIT 2026, 502--510. ACM. https://doi.org/10.1145/3794786.3830791
- Meneguzzo, S., Leto, S., Romani, N., Gatteschi, V., Favenza, A., & Schifanella, C. (2026). Blockchain or Not? An Auditable Decision Framework for Organisations. Proceedings of the 2026 International Conference on Information Technology for Social Good, GoodIT 2026, 238--247. ACM. https://doi.org/10.1145/3794786.3830760
- Avanzo, S., Pautasso, D., Domenicale, I., Norta, A., Schifanella, C., & Hattingh, M. (2026). DAOMod: A Modeling Method for Token Economy and Voting Protocol Specification. In Society 5.0 (Communications in Computer and Information Science, pp. 25--37). Springer. https://doi.org/10.1007/978-3-032-15463-7_3
- Luigi Di Caro, Mario Cataldi, and Claudio Schifanella. 2026. Beyond Disambiguation: Mapping and Quantifying Multilingual Polysemy Complexity. In Proceedings of the 41st ACM/SIGAPP Symposium on Applied Computing (SAC '26). Association for Computing Machinery, New York, NY, USA, 857--864. https://doi.org/10.1145/3748522.3779864
- Cataldi, M., Di Caro, L., Schifanella, C. (2026). Concept Matching in Hierarchical Meta-data: Leveraging Big-Data to Improve the Performances of Matching Strategies. In: Chrysanthis, P.K., Nørvåg, K., Stefanidis, K., Zhang, Z., Quintarelli, E., Zumpano, E. (eds) New Trends in Database and Information Systems. ADBIS 2025. Communications in Computer and Information Science, vol 2676. Springer, Cham. https://doi.org/10.1007/978-3-032-05727-3_40

2025

- Barbàra, F., Zichichi, M., Ferretti, S. et al. DLT-based personal data access control with key-redistribution. Cluster Comput 28, 404 (2025). https://doi.org/10.1007/s10586-024-05016-y

- Barbara, Fadi, Guglielmino, Enrico, Murru, Nadir and Schifanella, Claudio. "BTLE: Atomic swaps with time-lock puzzles" Journal of Mathematical Cryptology, vol. 19, no. 1, 2025, pp. 20240044. https://doi.org/10.1515/jmc-2024-0044
- S. Meneguzzo, A. Favenza, C. Schifanella, A. Mozzato and S. Leto, "Design and Evaluation of a Sub-8 Second Decentralised Marketplace for Energy Data," 2025 IEEE 49th Annual Computers, Software, and Applications Conference (COMPSAC), Toronto, ON, Canada, 2025, pp. 1722-1727, doi: 10.1109/COMPSAC65507.2025.00233.
- Irene Domenicale, Flavia Fredda, Emanuele Spadaro, Claudio Schifanella: "Participation by Design: Designing Incentives for Collaborative Economies in Local Communities". DLT 2025. https://ceur-ws.org/Vol-4105/paper02.pdf
- Aleksandr Kormiltsyn, Sowelu Avanzo, Vimal Dwivedi, Alex Norta, and Claudio Schifanella. 2025. Requirements for Decentralized Consensus in E-Health Workflows: Towards Trustworthy Interorganizational Coordination. In Proceedings of the 2025 International Conference on Information Technology for Social Good (GoodIT '25). Association for Computing Machinery, New York, NY, USA, 204--212. https://doi.org/10.1145/3748699.3749793
- Sowelu Avanzo, Irene Domenicale, Flavia Fredda, and Claudio Schifanella. 2025. Building an Ontology for Enhancing Value Exchanges through Tokenomics in Local Communities. In Proceedings of the 2025 International Conference on Information Technology for Social Good (GoodIT '25). Association for Computing Machinery, New York, NY, USA, 326--334. https://doi.org/10.1145/3748699.3749809
- Sowelu Avanzo, Marco Ottina, Daniele Pautasso, Irene Domenicale, Alex Norta, and Claudio Schifanella. 2025. DAO-ML To Solidity: A Scalable Code Generation Approach for Decentralized Autonomous Organization Development. In Proceedings of the 2025 International Conference on Information Technology for Social Good (GoodIT '25). Association for Computing Machinery, New York, NY, USA, 353--361. https://doi.org/10.1145/3748699.3749812
- Farina, G., Kocian, A., Brunori, G., Chessa, S., Lai, M. B., Nardi, D., Schifanella, C., Bonura, S., Masi, N., Comella, S., Ambrosino, F., Mariano, A., Colizzi, L., Dimitri, G. M., Gori, M., Scarselli, F., Bonomi, S., Almici, E., Antiga, L., Fiorentino, A. S., & Moreschi, L. (2025). Interoperable Traceability in Agrifood Supply Chains: Enhancing Transport Systems Through IoT Sensor Data, Blockchain, and DataSpace. Sensors, 25(11), 3419. https://doi.org/10.3390/s25113419
- Bistarelli, S., Felicetti, C., & Schifanella, C. (Eds.). (2025). Proceedings of the Seventh Distributed Ledger Technology Workshop (DLT 2025), Pizzo, Italy, June 12-14, 2025 (Vol. 4105). CEUR-WS.org. https://ceur-ws.org/Vol-4105
- Napoli, E. A., Spada, I., Romani, N., Gatteschi, V., & Schifanella, C. (2025). Smart Contract Visualization: Solutions and Challenges. In Proceedings of the Seventh Distributed Ledger Technology Workshop (DLT 2025), Pizzo, Italy (Vol. 4105). CEUR-WS.org. https://ceur-ws.org/Vol-4105/paper10.pdf
- Domenicale, I., Toti, C., Avanzo, S., Viano, C., & Schifanella, C. (2025). An Interdisciplinary Approach to the Coordination Layer of DAOs and the Design of Token Economies. In Decentralized Autonomous Organizations—Governance, Technology, and Legal Perspectives (European DAO Workshop), Springer Proceedings in Business and Economics (pp. 53--68). Springer. https://doi.org/10.1007/978-3-032-03273-7_4
- Réka Markovich, Luigi Di Caro, Amon Rapp, Claudio Schifanella: Legal Knowledge and Information Systems - JURIX 2025: The Thirty-eighth Annual Conference, Turin, Italy, 9-11 December 2025. Frontiers in Artificial Intelligence and Applications 416, IOS Press 2025, ISBN 978-1-64368-638-7

2024

- Barbara F., Napoli E., Gatteschi V., and Schifanella C. Automatic smart contract generation through LLMs: When the stochastic parrot fails. In DLT'24: Distributed Ledger Technologies Workshop, Turin, Italy, 2024. To Appear
- E. A. Napoli, F. Barbàra, V. Gatteschi and C. Schifanella, "Leveraging Large Language Models for Automatic Smart Contract Generation," 2024 IEEE 48th Annual Computers, Software, and Applications Conference (COMPSAC), Osaka, Japan, 2024, pp. 701-710, doi: 10.1109/COMPSAC61105.2024.00100.
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- Vanzo, N., Spadaro, E., Viano, C., & Schifanella, C. (2024). A blockchain-based object sharing system for local communities. Proceedings of the 2024 International Conference on Information Technology for Social Good, GoodIT 2024, 324--332. ACM. https://doi.org/10.1145/3677525.3678678
- Barbàra, F., Fredda, F., & Schifanella, C. (2024). Commit-Chains Without Smart Contracts for Blockchain Applications in Local Communities. Proceedings of the 2024 International Conference on Information Technology for Social Good, GoodIT 2024, 216--224. ACM. https://doi.org/10.1145/3677525.3678664
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- Farina, G., Brunori, G., Chessa, S., Kocian, A., Lai, M. B., Nardi, D., Schifanella, C., Bonura, S., Masi, N., Ambrosino, F., Mariano, A., Colizzi, L., Dimitri, G. M., Gori, M., Scarselli, F., & Bonomi, S. (2024). Interoperable Traceability in Supply Chains: A Use Case in Agritech. In Intelligent Systems (INTSYS 2024) (pp. 29--45). Springer. https://doi.org/10.1007/978-3-031-86370-7_3
- Bartoletti, M., Schifanella, C., & Vitaletti, A. (Eds.). (2024). Proceedings of the Sixth Distributed Ledger Technology Workshop (DLT 2024), Turin, Italy, May 14-15, 2024 (Vol. 3791). CEUR-WS.org. https://ceur-ws.org/Vol-3791
- Meneguzzo, S., Bergia, S., Favenza, A., Schifanella, C., Mozzato, A., & Gatteschi, V. (2024). Shaping the Future of Energy Markets: Federated Systems and Blockchain Synergy. 2024 IEEE 48th Annual Computers, Software, and Applications Conference (COMPSAC), Osaka, Japan, 2026--2031. IEEE. https://doi.org/10.1109/COMPSAC61105.2024.00324
- Domenicale, I., Fredda, F., & Schifanella, C. (2024). Tokenomics for Collaborative Economies in Local Communities: a Model Based on Game Theory. Sixth International Conference on Blockchain Computing and Applications, BCCA 2024, 749--755. IEEE. https://doi.org/10.1109/BCCA62388.2024.10844461
- Domenicale, I., Fredda, F., & Schifanella, C. (2024). Tokenomics in Civic Blockchain: Implementing Community and SoulBound Tokens in a Game-Theoretical Framework for Collaborative Economies. In Proceedings of the Sixth Distributed Ledger Technology Workshop (DLT 2024), Turin, Italy (Vol. 3791). CEUR-WS.org. https://ceur-ws.org/Vol-3791/paper2.pdf
- Meneguzzo, S., Konjoh Selabi, E. G., Favenza, A., Gatteschi, V., & Schifanella, C. (2024). Enabling citizen sustainable behaviors in urban mobility through blockchain and tokenization. In Blockchain Technology in the Automotive Industry (pp. 245--279). CRC Press. https://doi.org/10.1201/9781003450306-17
- Viano, C.; Boella, G; Schifanella, C. (2024) Embedding sustainability in software design and development: accessible digital tools for local communities. In Certomà C., Iapaolo F., Martellozzo F. (eds.) (2024). "Digital Technologies for Sustainable Futures: Promises and Pitfalls2 (1st ed.). Routledge

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- Viano C., Avanzo S., Boella G. Schifanella C. (2023). Civic Blockchain: Making blockchains accessible for social collaborative economies. Journal of Responsible Technology, 15, 2023, 100066, https://doi.org/10.1016/j.jrt.2023.100066 .
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