

UOC

**Internet Interdisciplinary
Institute (IN3):
Shaping
the Future Internet**

**Annual Report
2022**

**Universitat Oberta
de Catalunya**



Internet Interdisciplinary Institute (IN3)

Annual Report
2022

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01

Introduction

What is the IN3?

Founded between 1999 and 2000 by **Gabriel Ferraté** (UOC and IN3 president) and **Imma Tubella** (UOC vice president for research and IN3 vice president), the **Internet Interdisciplinary Institute (IN3)** is a research centre at the **Universitat Oberta de Catalunya (UOC)** specializing in the study of the *network society*. The network society is the result of increased centrality and changes in the conditions for generating knowledge and processing information and data, which were brought on by the emergence of the internet and digital technologies (ICT).

The IN3, unlike other research centres, connects **human sciences** (social sciences, health sciences, humanities, arts, etc.) with **engineering** disciplines, particularly computer science and telecommunications. IN3 research, currently carried out by **10 research groups**, is grounded in **multidisciplinarity, transdisciplinarity and interdisciplinarity**. On the engineering side, the IN3 creates, designs and prescribes new technologies that feed the network society and have an impact on society. And on the human sciences side, the IN3 analyses the effects of new technologies on society and identifies social needs in the context of the network society. The interplay between engineering disciplines and human sciences at the IN3 distinguishes its research work, through which it aims to solve the social and technological challenges of the network society.

In order to maintain scientific excellence, the IN3 hosts a meeting of the **Scientific Advisory Board** every two years. This board, made up of ten researchers from various research centres and universities in Europe and the United States, serves a dual purpose. First, the board periodically evaluates the IN3's research groups and, second, it advises the IN3 on attracting new talent and suggests areas of improvement for the future.

Introduction

Mission, vision and values of the IN3

Mission

The **IN3's mission**, based on research into the knowledge society (network society), puts transversality and interdisciplinarity at the forefront, with a particular focus on the interaction between the human and engineering sciences, and establishes social progress as a major research goal.

Vision

With regard to its **vision**, the IN3 aspires to become a **pioneering centre of reference** for the collaboration of life sciences and engineering disciplines to conduct **frontier research on the network society**. To this end, it focuses its research efforts on **analysing the impact of ICT and internet development on human activity**, leading the **formulation of technological solutions to address the needs and demands of the network society**, and, in doing so, contributing to **social progress**.

Values

The **IN3's values** are **commitment, respect, transparency, professionalism, and sustainability**.

Introduction

Statement by the director of the IN3



In 2022, we overcame the challenges of lockdown and the emotional exhaustion of working almost exclusively remotely for two full years. It was the year of the long-awaited return to normal life, marking the end of the pandemic, during which our community demonstrated its remarkable resilience and adaptability.

We were back to business as usual, but we also celebrated the opening of a new building on the UOC Campus in Poblenou. Our magnificent new premises are in a prime location, providing an ideal connection with the rest of the UOC's academic community and Barcelona's 22@ technology district. This proximity will strengthen our collaborations and foster an environment of innovation and creativity.

In terms of our results, we have consistently scored excellently well in our performance indicators. We have achieved outstanding results in the areas of high-impact scientific publications and research funding, reaching close to €4 million in new projects, contracts and agreements, almost four times the amount raised before the IN3's reorganization in 2016. This is a good indication of the trust and recognition we have received from the scientific community and from external funders, both public and private.

Introduction

In 2022, we benefited from the opportunities and advantages offered by the TECNIO label granted to us by the Government of Catalonia. This accreditation enabled us to secure new contracts and research projects, thus promoting collaboration and exchange with the productive sector.

I would also like to note that all the IN3 research groups were recognized this year as SGR groups by the Catalan University and Research Grant Management Agency (AGAUR, Government of Catalonia). This recognition is a testament to the effort and excellence of our academic staff, as well as the positive impact that our research has on society.

All in all, 2022 was a milestone year for the IN3. We rose above the challenges of the pandemic, opened a new building, achieved outstanding results and strengthened our position in the science and technology landscape. These achievements reflect the commitment and dedication of our community and encourage us to continue on our mission to drive research and innovation in the digital transformation of society.

David Megías Jiménez
Director

02



Organization

Organization

Who are we?



Executive board

Marta Aymerich Martínez

Vice President for Strategic Planning and Research



David Megías Jiménez

Director



Mònica de Forn Riera (until September 2022)

Deputy General Manager for Research

Ciro Lluca Fonollosa (from October 2022)

Deputy General Manager for Research

Organization

Who are we?



Isabel Carol Ciurana
Management and Administrative Support Specialist



Montserrat Mir Buxalleu
Management and Administrative Support Specialist



Raissa Alvear Contreras
Management and Administrative Support Specialist

Administrative staff

Organization

Who are we?



Alexandre Dotor Casals
Specialist



Claudia Malpica Lander
Specialist

Technical staff

Organization

Who are we?



Marina Mora Muñoz
Communication Specialist



Goretti Brunet Gonzalez
Communication Specialist

Communication staff

Organization

Who are we?



Research groups

Dr Israel Rodríguez Giralt

*Adjunct professor and leader of the research group
Care and Preparedness in the Network Society (CareNet).*



Dr Rosa Borge Bravo

*Associate professor and leader of the research group
Communication Networks & Social Change (CNSC).*



Dr Javier Borge Holthofer

*Senior researcher and leader of the research group
Complex Systems @ IN3 (CoSIN3).*

Organization



Dr Mayo Fuster

*Senior researcher, AQU-accredited full professor and leader of the research group **Digital Commons (Dimmons)**.*



Dr David Megías

*Full professor, director of the IN3 and leader of the research group **K-ryptography and Information Security for Open Networks (KISON)**.*



Dr Milagros Sáinz

*Senior researcher and leader of the research group **Gender and ICT (GenTIC)**.*



Dr Diana Roig-Sanz

*ERC Starting Grant holder, ICREA research professor and leader of the **Global Literary Studies Research Lab (GlobalS)**.*

Organization



Dr Jordi Cabot

*ICREA research professor and leader of the **Systems, Software and Models Research Lab (SOM Research Lab)**.*



Dr Ramon Ribera

*Full professor and lead researcher of the research group **Urban Transformation and Global Change Laboratory (TURBA Lab)**.*



Dr Xavier Vilajosana

*Full professor and researcher at the **Wireless Networks Research Lab (WiNe)**.*

Knowledge and research areas

The IN3's knowledge areas line up with the research areas pursued by its 10 groups.

Care and preparedness in the network society (Care and Preparedness in the Network Society ([CareNet])

Understanding the impact of technologies, particularly information and communication technologies (ICT), on the new social and cultural order of care and alertness, and on crisis and disaster preparedness.

Digital commons (Digital Commons [Dimmons])

Studying commons, specifically as an organizational form of production (commons-based peer production, CBPP), also known as the 'sharing economy' or 'social innovation'.

Communication networks and social change (Communication Networks & Social Change [CNSC])

Analysing the new forms of citizen participation and political expression brought about by networked movements and emerging technopolitical practices; and studying the role of mobile communication among non-central social groups, generally older people and the low-income population.

Information and network security and privacy (K-ryptography and Information Security for Open Networks [KISON])

Researching the security and privacy of decentralized networks, and protecting intellectual property when dealing with internet-based digital content.

Complex systems (Complex Systems @ IN3 [CoSIN3])

Exploring the underlying mechanisms in complex networked systems, based on the convergence between computational social science and urban science.

Gender and ICT (Gender and ICT [GenTIC])

Identifying and analysing gender relations in the design, development and use of science and technology innovations, with special attention to information and communication technologies (ICT) and the fields of science, technology, engineering and mathematics (STEM).

Global literary studies and digital humanities (Global Literary Studies Research Lab [GloLS])

Analysing literary history from a global, decentralized and interdisciplinary perspective.

Software engineering (Systems, Software and Models [SOM Research Lab])

Studying systems and software engineering, especially with regard to promoting the rigorous use of software models and engineering principles in software design.

Urban transformation (Urban Transformation and Global Change Laboratory [TURBA Lab])

Analysing the multidimensional features of socio-environmental and socio-technological transformations at the intersection of cities and digital technologies.

Internet of things (Wireless Networks Research Lab [WiNe])

Studying systems and software engineering, especially with regard to promoting the rigorous use of software models and engineering principles in software design.

IN3 Visiting Program

The **IN3 Visiting Program** aims to create a space for interdisciplinary exchange of an international nature among researchers at different stages of their research careers.

The welcoming of visiting academic staff serves a dual purpose. First, it makes it easier for researchers visiting the IN3 to find their place in a consolidated and interdisciplinary research environment. Second, it offers IN3 researchers the opportunity to learn and share knowledge, the possibility of opening up new lines of research and the consolidation, and possible expansion, of networks.

The **Visiting Program** involves a two-sided commitment. For its part, the IN3 agrees to ensure the necessary conditions for the visiting scholar to carry out their stay, from start to finish. In turn, the visiting scholar undertakes to secure the necessary funding for their stay and to contribute, through one or more products resulting from their visit, to the IN3's environment of multidisciplinary exchange.

03

The IN3 in figures

The IN3 in figures

Team (52% women and 48% men)

Group directors
(4 women and 6 men) **10**

Predocctoral researchers
(28 women and 26 men) **54**

Postdoctoral researchers
(38 women and 32 men) **70**

Research assistants
(11 women and 18 men) **29**

Staff researchers
(5 men) **5**

Interns
(1 woman) **1**

Visiting researchers
(15 women and 6 men) **21**

CONICET (Argentina), Warsaw University of Technology (Poland), University of the Basque Country (Spain), University of Bologna (Italy), University of Manchester (UK), Utrecht University (Netherlands), Universitat Politècnica de València (Spain), Malmö University (Sweden), Universidad del Norte (Colombia), Pontificia Universidad Católica de Chile (Chile), Valparaíso University (Chile), University of Panama (Panama), Universitat Politècnica de Catalunya (Spain), Sciences Po Paris (France), Aalto University (Finland), University of Málaga (Spain) and the UOC (Spain)

External collaborators
(22 women and 16 men) **38**

Publications

Papers published in 2022 **106**

Reviews **5**

Conference proceedings **26**

Joint papers
(involving collaboration between two or more IN3 research groups) **6**

Books **9**

Book chapters **42**

Theses

Doctoral theses (defended) **8**

Innovation

Patents (granted in 2022) **6**

Patent in force in 2022 **1**

Consulting assignments (secured in 2022) **5**

Consulting assignments in progress in 2022
(4 led by women and 6 led by men) **10**

The IN3 in figures

Conferences and scientific symposia

Activities organized by the IN3, drawing roughly 1,300 participants **52**

Seminars **30**

Conferences **7**

Presentations **2**

Workshops **3**

Symposia **1**

Meetings **3**

Project wrap-up events **2**

Project launch events **1**

Around 100 instances of IN3 researchers participating in activities run by institutions, centres and organizations outside the IN3 (according to the information gathered and disseminated by the Executive Secretary's Office of the IN3)

Projects

Projects awarded funding in 2022 **16**

Intergroup projects awarded funding in 2022 (involving more than one IN3 research group) **2**

Ongoing projects (4 international, 14 European, 20 Spanish and 7 regional; 36% led by women and 64% led by men) **45**

Joint projects in progress **2**

Other grants/funding and research contracts

Internal mobility grants **2**

Internal grants for recruiting talent (pre and post) **9**

Externally funded mobility grants **3**

Research contracts **6**

Externally funded staff members recruited **3**

Talent recruitment

Grants for Juan de la Cierva (JdC) contracts **1**

Grants for Ramón y Cajal (RyC) contracts **2**

Grants for Beatriz de Pinós (BP) contracts **1**

Grants for hiring junior research staff (FI) **2**

Marie Skłodowska-Curie (MSCA) postdoctoral grants **1**

04



2022 milestones

(Photo: CASPER website)



Final conference of the CASPER project

 **145** participants

Gender and ICT (GenTIC)

The final conference of the European project known as **CASPER** (which stands for Certification-Award Systems to Promote Gender Equality in Research) was held online by the **CASPER Consortium** from 14 to 21 March. **CASPER**, which involves the **GenTIC** research group, is a European funded project analysing the feasibility and implementation of a Europe-wide certification scheme for gender equality in research. The final conference of the project consisted of two webinars. The first, entitled “**CASPER co-creation journey to develop scenarios for a European-wide certification scheme for gender equality**”, covered the main findings of the project, while the second, entitled “**Operational tools to support institutional change**”, focused on the operational instruments developed by the project to mainstream gender equality in research.

March

May

Feminist epistemologies and methodologies in dialogue with action research and the digital revolution (seminar)

 **29** participants

Digital Commons (Dimmons)

The seminar entitled “**Feminist epistemologies and methodologies in dialogue with action research and the digital revolution**” was held by the **Dimmons** research group on 25 May. This was the last of three seminars that took place in preparation for the **8th Congress of Feminist Economics**. It provided an opportunity to reflect on (1) feminist epistemologies and methodologies; (2) intersectional approaches and methodologies and their connection with the history of action research; and (3) new forms and methods that have emerged amidst the digital revolution. The seminar was moderated by **Mayo Fuster Morell**, director of the Dimmons research group and the Open Chair in Digital Economy, and featured the participation of **Mònica Grau**, **Barbara Biglia**, **Maria Rodó** and **Enric Senabre**.



(Photo: Dimmons' Twitter account)

(Photo: MetaDecidim)



LAB Metadecidim – Session 17. decidim.delibera: “Deliberative Democracy on Decidim”

 **41** participants

Communication Networks & Social Change (CNSC)

LAB Metadecidim. Session 17. decidim.delibera: “Deliberative Democracy on Decidim”, a seminar organized by the **Technopolitics Unit** of the **Communication Networks & Social Change (CNSC)** research group, took place in person on 3 June. Session 17 of LAB MetaDecidim invited the **Decidim community** to discuss the Decidim platform’s ability to host deliberations and the addition of new features for more structured debate, dissent, consensus and collective decision-making.

June

Enjoying Climate Change: Jouissance as a Political Factor (seminar)

 **25** participants

Urban Transformation and Global Change Laboratory (TURBA Lab)

The seminar **Enjoying Climate Change: Jouissance as a Political Factor** was held by the **TURBA Lab** research group on 14 June. Led by Dr **Erik Swyngedouw**, professor of Human Geography at the University of Manchester, the seminar explored the dissonance between knowledge and action resulting from the current climate impasse, focusing on “jouissance” as a political factor.

European Interdisciplinary Cybersecurity Conference – EICC 2022

 **45** participants

K-ryptography and Information Security for Open Networks (KISON)

The **European Interdisciplinary Cybersecurity Conference – EICC 2022** was held by the **KISON** research group on 15 June. Around 50 speakers discussed academic and professional aspects of cybersecurity in Europe.

Rethinking Film History Through Global and Digital Approaches (Early 1920s - Early 1970s) (international conference)

 **30** participants

Global Literary Studies Research Lab (GlobaLS)

Rethinking Film History Through Global and Digital Approaches (Early 1920s - Early 1970s), an international conference organized by the **GlobaLS** research group in collaboration with researcher **Malte Hagener** of the **Marburg Centre for Digital Culture and Infrastructure (MCDCI, Philipps-Universität Marburg)**, took place from 4 to 7 October. From a gender, ethical, interdisciplinary and digital perspective, researchers from Spain and abroad discussed the concerns of the new generation of film historians about the global dynamics that challenge Eurocentric and Western discourses and promote plural and heterogeneous ways of thinking.



October

Data Science in/for Barcelona (workshop)

 **45** participants

Complex Systems @ IN3 (CoSIN3)

Data Science in/for Barcelona, a workshop organized by the **CoSIN3** research group, took place on 30 November. The workshop served as an opportunity to share qualitative and quantitative studies focusing on the city of Barcelona and exploring topics such as data sources and the data ecosystem; urban planning and socio-demographic analysis; sustainable, responsible, universal and health-conscious mobility; and citizens' health and its relationship to the urban environment.

November



Closing events of the Looming Factory emerging cluster

Wireless Networks Research Lab (WiNe)

The closing events of the **Looming Factory emerging cluster**, organized by the **WiNe** research group, took place from 22 November to 1 December. The **Looming Factory** was created as part of the **Research and Innovation Strategy for the Smart Specialization of Catalonia (RIS3CAT)** and subsidized by the **European Regional Development Fund (ERDF)** to promote **Industry 4.0** in Catalonia. Two events were held to conclude its activities. The first was a general closing assembly and a visit to the demonstrators of the projects involved in the cluster. The second event, attended only by members of the cluster, was devoted to presenting the results of the cluster's **Smart Factory**, **Connected Factory**, **Robots on Factory**, and **Factories of the Future** projects.

05

News

News



(Photo: Beckett)

Sala Beckett and the UOC present the series Planet Person. The Limits of the Climate Crisis

Care and Preparedness in the Network Society (CareNet)



(Photo: Camilo Jiménez / Unsplash)

How technology can detect fake news in videos

Communication Networks & Social Change (CNSC)



(Photo: Jorge Fernández / Unsplash)

Scientific formula calculates how to create more space for pedestrians in post-pandemic cities

Complex Systems @ IN3 (CoSIN3)

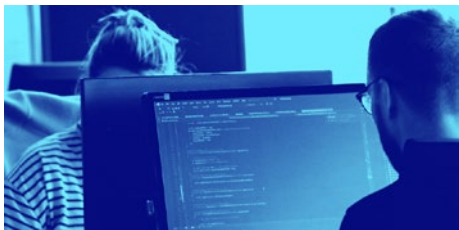


(Photo: Matchimpulsa / Càtedra_Oberta)

digitESSt and digiDieta: new tools to help digitize the social and solidarity economy

Digital Commons (Dimmons)

News



(Photo: Sigmund / Unsplash)

Five cybersecurity challenges beyond technology

K-ryptography and Information Security for Open Networks (KISON)



(Photo: Trust "Tru" Katsande / Unsplash)

UOC to coordinate new European centre of excellence for gender equality in research

Gender and ICT (GenTIC)



"We're rethinking the history of film to decolonize it and to highlight the role of the women who have been made invisible"

Global Literary Studies Research Lab (GloaLS)



(Photo: Fotis Fotopoulos)

Software for all: how do open-source communities work?

Systems, Software and Models Research Lab (SOM Research Lab)

News



(Photo: Kelly Sikkema / Unsplash)

UOC leads European project to reinforce climate resilient shelters in schools
Urban Transformation and Global Change Laboratory (TURBA Lab)



(Photo: Hanson Lu / Unsplash)

A UOC project brings digitalization to the aquaculture sector without the need for complex technical expertise
Wireless Networks (WiNe)



(Photo: Flickr UOC)

President of the Government of Catalonia, Pere Aragonès, and UOC President, Josep A. Planell, inaugurate new UOC research hub in Barcelona's 22@ district
Internet Interdisciplinary Institute (IN3)

06

Impact
and presence

Impact and presence

Website and blog

IN3 website. Since 2016.

News items



41

IN3 Blog. Since 2019.

Posts in 2022



35

New users in 2022



7,000

(3,242 more than in 2021)

Logins



9,358

Impact and presence

Social media

[@IN3 UOC on X \(former Twitter\)](#). Since 2010.

Followers



3,856

Tweets



1,100

Retweets



1,467

Likes



3,210

[IN3 YouTube channel](#). Since 2010.

172 videos,
of which **4**
are from 2022.

Views in 2022

172



+ 862

Impact and presence

Social media

IN3 Keep Updated! (newsletter). Since 2018.

Newsletters
sent out in 2022



23



+ 401

07

Awards
and accolades

Awards and accolades

Awards

Most Influential Paper Award at the 30th IEEE International Requirements Engineering 2022 Conference

“How do software architects consider non-functional requirements: An exploratory study”, a paper written by Dr **David Ameller** (researcher at the Universitat Politècnica de Catalunya), Dr **Claudia Ayala** (researcher at the Universitat Politècnica de Catalunya), Dr **Jordi Cabot** (ICREA research professor and director of the **Systems, Software and Models Research Lab [SOM Research Lab]**) and Dr **Xavier Franch** (researcher in the GESSI group at the Universitat Politècnica de Catalunya) won the Most Influential Paper Award at the **30th IEEE International Requirements Engineering 2022 Conference**.

Open Data of the Community of Castilla and León Award, Ideas category

“Bots for open data interactions: Conversational interfaces to facilitate access to public data (BODI)”, a project by **Marcos Gómez Vázquez** (researcher at the **Systems, Software and Models Research Lab [SOM Research Lab]**) and **Jordi Cabot** (ICREA research professor and director of **SOM Research Lab**), received the **Open Data of the Community of Castilla and León Award** in the **Ideas category**. The award, presented by the **Open Data Portal of the Castilla and León Regional Government**, honours projects that use the Portal’s data set to provide any type of idea, study, service, website or mobile application.

Awards and accolades

Accolades

Mireia Fernández-Ardèvol (associate professor at the UOC Faculty of Information and Communication Sciences and researcher with the **Communication Networks & Social Change [CNSC]** research group), **Isabel Ruiz Mallén** (associate professor at the UOC Faculty of Psychology and Education Sciences and researcher in the **Urban Transformation and Global Change Laboratory [TURBA Lab]** research group), **Cristina Cano Bastidas** (associate professor at the UOC Faculty of Computer Science, Multimedia and Telecommunications and researcher in the **Wireless Networks [WiNe]** research group), and **Mayo Fuster Morell** (senior researcher and leader of the **Digital Commons [Dimmons]** research group) were four of the 18 researchers from the UOC listed in the **Google Scholar Ranking of Female Spanish and Foreign Researchers in Spain**, produced by the **Spanish National Research Council (CSIC)**. The ranking seeks to shine a spotlight on talented women in research by recognizing the female researchers from Spain and abroad working at Spanish universities and research centres who have received the most citations in Google Scholar.

Dr **Rosa Borge Bravo**, adjunct instructor at the UOC Faculty of Law and Political Science and co-director of **Communication Networks & Social Change (CNSC)**, was selected to lead the CNSC research group following a competitive call.

Dr **Rosa Borge Bravo**, adjunct instructor at the UOC Faculty of Law and Political Science and leader of the **Communication Networks & Social Change (CNSC)** research group, was named **regional manager for Southern Europe** of the **Digital Society Project**.

Dr **Javier Borge Holthoefter**, senior researcher and leader of the **Complex Systems @ IN3 (CoSIN3)** research group, was awarded a **Ramón y Cajal (RyC)** grant from the **Spanish Ministry of Science and Innovation**.

Awards and accolades

Accolades

Dr **Helena Rifà Pous**, associate professor at the UOC Faculty of Computer Science, Multimedia and Telecommunications, researcher at **K-ryptography and Information Security for Open Networks (KISON)** and member of the **National Cybersecurity Forum**, was honoured for her **selfless contribution** to this initiative at the **16th STIC CCN-CERT Conference** and the **4th ESPDEF-CERT Cyberdefence Conference**.

Dr **Diana Roig Sanz**, recipient of a **starting grant from the European Research Council (ERC)**, ICREA research professor and coordinator of the **Global Literary Studies Research Lab (GloLaS)**, was among the female scientists honoured as part of the **Women in Science and Innovation** initiative of the **Spanish Ministry of Science and Innovation**. The initiative is promoted by the Ministry's **Women and Science Unit** and the **Spanish Foundation for Science and Technology (FECYT)** to recognize female scientists and innovators from Spain and abroad whose significant scientific/technological contributions to their disciplines have made them role models for the up-and-coming generations of young researchers.

Dr **Aurea Mota**, postdoctoral researcher at the **Global Literary Studies Research Lab (GloLaS)**, was named **coordinator of the Political Philosophy Working Group** of the **Latin American Council of Social Sciences (CLACSO)**.

Dr **Xavier Vilajosana**, full professor and leader of the **Wireless Networks Research Lab (WiNe)**, was **awarded** the title of **ICREA Acadèmia researcher**.

Awards and accolades

Accolades

Dr **Ramon Ribera Fumaz**, leader of the **Urban Transformation and Global Change Laboratory (TURBA Lab)**, was appointed **full professor** of Economic and Urban Geography at the UOC.

Dr **Israel Rodríguez Giralt**, associate professor at the UOC Faculty of Psychology and Education Sciences and leader of the **Care and Preparedness in the Network Society (CareNet)** research group was **awarded** an honorary distinction by the **Institute for Public Security of Catalonia (ISPC)**. This distinction recognizes individuals who have excelled throughout their career in training, study or scientific research in the field of security, with a particular impact on the activities of the ISPC.

As a research centre the **Internet Interdisciplinary Institute (IN3)** obtained the **TECNIO** accreditation granted by the **Government of Catalonia** through ACCIÓ. This accreditation aims to identify and promote technology developers in the Catalan research, development and innovation system who possess exceptional technological capabilities and are able to transfer these capabilities in order to strengthen the business community and enhance the value of the Catalan innovation ecosystem internationally.

01

Appendix 1.
Scientific
publications

Appendix 1. Scientific publications

Care and Preparedness in the Network Society (CareNet)

Articles

García-Santesmases, A., López Gómez, D., & Pié Balaguer, A. (2022). **Being just their hands? Personal assistance for disabled people as bodywork.** *Sociology of Health & Illness*, 1-20. DOI: 10.1111/1467-9566.13567.

García-Santesmases Fernández, A., Moyà-Köhler, J., Farré Montalà, L. & Boyo Arias, A. (2022). **Las infraestructuras de cuidado en tiempos de pandemia: de la crisis sanitaria a la emergencia de lo social.** *Revista Española de Discapacidad*, 10 (1), 231-240. DOI: 10.5569/2340-5104.10.01.11.

Jacques Aviñó, C., Rodríguez Giralt, I., Ruiz, M., Medina-Perucha, L., Anigstein, M.S. & Berenguera, A. (2022). **¿Para cuándo el diálogo interdisciplinar en la gestión de la sindemia de la COVID-19?.** *Revista Española de Salud Pública*, 96. Quartile: ISI JCR: Q4 | SCOPUS SJR: Q3.

Jiménez, B. & Brescó, I. (2022). **Griefbots. A new way of communicating with the dead?** *Integrative Psychological & Behavioral Science*. DOI: 10.1007/s12124-022-09679-3.

Marshall, B., Dalmer, N.K., Katz, S., Loos, E., López Gómez, D. & Peine, A. (2022). **Digitization of Aging-in-Place: An International Comparison of the Value-Framing of New Technologies.** *Societies*, 12 (2), 1-14. DOI: 10.3390/soc12020035.

Book chapters

Correa-Urquiza, M. & Pié Balaguer, A. (2022). **Las artes vivas como habilitadoras de diálogo y encuentro en lo intercultural = Les arts vivants comme facilitateurs de dialogue et de rencontre dans l'interculturel.** In Fernández Sobrino, P. & Ledegen, G. (Eds.). *Fusée de Détresse* (Pp. 117-162). Presses Universitaires de Rennes.

Pastor, E., Caballero, D., Rodríguez Giralt, I., Arenas-Conejo, M., Morán, E.J., Canaleta, G., Vacca, P., Àgueda, A. & Planas, E. (2022). **Vulnerability analysis to wildland-urban interface fires in metro-**

politan areas: an integrated approach. In Viegas Domingo, X. & Ribeiro, L.M. (Eds.). *Advances in Forest Fire Research 2022*. Imprensa da Universidade de Coimbra.

Pié Balaguer, A. & Arenas-Conejo, M. (2022). **Activismo(s) de la discapacidad en España: alianzas y transversalidades del 15M.** In Razquin, A. & Betancor, G. (Eds.). *Diez años construyendo ciudadanía en movimiento(s). El 15M y otras luchas hermanas* (Pp. 187-197). Edicions Bellaterra.

Pié Balaguer, A. & Alegre-Agís, E. (2022). **Situación actual y modelos emergentes en salud mental: Una perspectiva socio-antropológica.** In Grau Muñoz, A. & Faus Bertomeu, A. (Eds.). *Sociología de la salud: Salud, malestar y sociedad desde una mirada crítica* (Pp. 195-234). Tirant Lo Blanc.

Books

Çakir, P. (2022). **Learning from the Pandemic: Artistic Freedom & Mobility Beyond the Covid-19 Crisis.** Stuttgart: Martin Roth-Initiative (MRI)/ ifa (Institut für Auslandsbeziehungen e. V.).

Appendix 1. Scientific publications

Communication Networks & Social Change (CNSC)

Articles

Beneito-Montagut, R., Rosales Climent, A. & Fernández-Ardèvol, M. (2022). **Emerging digital inequalities: A comparative study of older adults' smartphone use**. *Social Media + Society*, 8 (4), 1-12. DOI: 10.1177/20563051221138756. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1. (In collaboration with the Care and Preparedness in the Network Society [CareNet] research group at the IN3)

Blanche-Tarragó, D. & Fernández-Ardèvol, M. (2022). **(Non-)Politicized Ageism: Exploring the Multiple Identities of Older Activists**. *Societies*, 12 (2), 1-14. DOI: 10.3390/soc12020040.

Borge, R., Balcells Padullés, J. & Padró-Solanet, A. (2022). **Democratic Disruption or Continuity? Analysis of the Decidim Platform in Catalan Municipalities**. *American Behavioral Scientist*, 67 (7) 1-14. DOI: 10.1177/00027642221092798. (In collaboration with the eGovernance: electronic administration and democracy [GADE] research group at the Universitat Oberta de Catalunya)

Borge, R., Brugué, J. & Duenas-Cid, D. (2022). **Tecnología y democracia: El quién y el cómo en la toma de decisiones. Los casos de Estonia y Cataluña**. *El Profesional de la Información*, 31 (3), 1-15. DOI: 10.3145/epi.2022.may.11. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Comunello, F., Rosales Climent, A., Mulargia, S., Ieracitano, F., Belotti, F. & Fernández-Ardèvol, M. (2022). **'Young-splaining' and moralistic judgements: Exploring ageism through the lens of digital 'media ideologies'**. *Ageing & Society*, 42 (4), 938-961. DOI: 10.1017/S0144686X20001312. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Fernández-Ardèvol, M., Belotti, F., Ieracitano, F., Mulargia, S., Rosales Climent, A. & Comunello, F. (2022). **"I do it my way": Idioms of practice and digital media ideologies of adolescents and older adults**. *New Media and Society*, 24 (1), 31-49. DOI: 10.1177/1461444820959298. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Rosales Climent, A. & Blanche-Tarragó, D. (2022). **Explicit and Implicit Intergenerational Digital Literacy Dynamics: How Families Contribute to Overcome the Digital Divide of Grandmothers**. *Journal of Intergenerational Relationships*, 20 (3), 328-346. DOI: 10.1080/15350770.2021.1921651. Quartile: SCOPUS SJR: Q1.

Book chapters

Loos, E., Fernández-Ardèvol, M., Rosales, A. & Peine, A. (2022). **Why It is Easier to Slay a Dragon Than to Kill a Myth About Older People's Smartphone Use**. In Gao, Q. & Zhou, J. (Eds.). *Human Aspects of IT for the Aged Population. Design, Interaction, and Technology Acceptance*. HCII 2022. Lecture Notes in Computer Science, Vol. 13330. Springer, Cham. DOI: 10.1007/978-3-031-05581-2_16.

Appendix 1. Scientific publications

Complex Systems @ IN3 (CoSIN3)

Articles

Bustos, C., Rhoads, D., Lapedriza, A., Borge-Holthoefer, J. & Solé-Ribalta, A.. (2022). **Predicting the impact of urban change in pedestrian and road safety.** *ArXiv*, abs/2202.01781. DOI: 10.48550/arXiv.2202.01781.

Casas-Roma, J., Martinez-Heras, E., Solé-Ribalta, A., Solana-Díaz, E., Lopez-Soley, E., Vivó, F., Diaz-Hurtado, M., Alba-Arbalat, S., Sepúlveda, M., Blanco, Y., Saiz, A., Borge-Holthoefer, J., Llufríu, S. & Prados, F. (2022). **Applying multilayer analysis to morphological, structural, and functional brain networks to identify relevant dysfunction patterns.** *Network Neuroscience*, 6 (3), 916-933. DOI: 10.1162/netn_a_00258. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1. *(In collaboration with the Applied Data Science Lab [AdaS Lab] at the Universitat Oberta de Catalunya)*

Feizizadeh, B., Omarzadeh, D., Mohammadzadeh Alajujeh, K., Blaschke, T. & Makki, M. (2022). **Impacts of the Urmia Lake Drought on Soil Salinity and Degradation Risk: An Integrated Geoinformatics Analysis and Monitoring Approach.** *Remote Sensing*, 14 (14), 1-26. DOI: 10.3390/rs14143407. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Digital Commons (Dimmons)

Articles

Fuster Morell, M. & Senabre-Hidalgo, E. (2022). Co-creation applied to public policy: A case study on collaborative policies for the platform economy in the city of Barcelona. *CoDesign*, 18 (3), 378-397. DOI: 10.1080/15710882.2020.1854313. Quartile: SCOPUS SJR: Q1.

Fuster Morell, M. (2022). The gender of the platform economy. *Internet Policy Review*, 11 (1), 1-27. DOI: 10.14763/2022.1.1620. Quartile: SCOPUS SJR: Q1.

Moreira, S. (2022). Comunicación para los comunes alimentarios: Análisis comparativo de grupos de consumo agroecológico en Portugal. *Comunicación y Sociedad*, 19 (Null), 1-31. DOI: 10.32870/cys.v2022.8155. Quartile: SCOPUS SJR: Q3.

Book chapters

Fuster Morell, M., Espelt, R. & Vega-Rodríguez, N. (2022). La digitalización de la economía social. El caso de la ciudad de Barcelona. In *33º Congreso Internacional del CIRIEC. Nuevas dinámicas mundiales en la era post-Covid; desafíos para la economía pública, social y cooperativa* (Pp. 1-24). CIRIEC.

Fuster Morell, M., Espelt, R. & Vega-Rodríguez, N. (2022). Prácticas de género en el emprendeduría social de Barcelona: Comparativa entre sectores digital feminista, agroecología y economía colaborativa. In *IV Congreso Internacional de Ciencia, Feminismo y Masculinidades*. CICFEM 2022. Proceedings book (Pp. 95-98). CICFEM.

Russo, A.P., Soro, E. & Scarnato, A. (2022). Is another tourism possible? Shifting discourses in Barcelona's tourism politics. In van der Borg, J. (Eds.). *A Research Agenda for Urban Tourism* (Pp. 257-279). Edward Elgar Publishing Limited.

Appendix 1. Scientific publications

K-ryptography and Information Security for Open Networks (KISON)

Articles

Alatrística-Salas, H., Montalvo García, A., Núñez del Prado, M. & Salas-Piñón, J. (2022). **Geolocated Data Generation and Protection Using Generative Adversarial Networks**. *Lecture Notes in Computer Science*, Vol. 13408, 80-91. DOI: 10.1007/978-3-031-13448-7_7. Quartile: SCOPUS SJR: Q2.

Kheddar, H. & Megías, D. (2022). **High capacity speech steganography for the G723.1 coder based on quantised line spectral pairs interpolation and CNN auto-encoding**. *Applied Intelligence*, (52), 9441-9459. DOI: 10.1007/s10489-021-02938-7. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Megías, D., Kuribayashi, M., Rosales Climent, A., Cabaj, K. & Mazurczyk, W. (2022). **Architecture of a fake news detection system combining digital watermarking, signal processing, and machine learning**. *Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications*, 13 (1), 33-55. DOI: 10.22667/JOWUA.2022.03.31.033. Quartile: SCOPUS SJR: Q2. (In collaboration with the Communication Networks & Social Change [CNSC] research group at the IN3)

Núñez del Prado, M., Maehara-Aliaga, Y., Salas-Piñón, J., Alatrística-Salas, H. & Megías, D. (2022). **A Graph-Based Differentially Private Algorithm for Mining Frequent Sequential Patterns**. *Applied Sciences*, 12 (4), 1-13. DOI: 10.3390/app12042131. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Thankappan, M., Rifà Pous, H. & Garrigues Olivella, C. (2022). **Multi-Channel Man-in-the-Middle Attacks Against Protected Wi-Fi Networks: A State of the Art Review**. *Expert Systems with Applications*, 210 (Null), 1-29. DOI: 10.1016/j.eswa.2022.118401. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Book chapters

Bengoechea-Isasa, J.I., Ventura, C. & Rifà Pous, H. (2022). **Transferencia de aprendizaje en redes neuronales para mejora de un IDS**. In Sadornil Renedo, D. (Eds.). *XVII Reunión española sobre criptología y seguridad de la información. RECSI 2022* (Pp. 31-36). Universidad de Cantabria.

Salas-Piñón, J., Serra-Ruiz, J., Megías, D., García-Font, V., Koochpayeh Araghi, T. & Rifà Pous, H. (2022). **Arquitectura para la Detección de Noticias Falsas Basada en Watermarking y Machine Learning**. In Sadornil Renedo, D. (Eds.). *XVII Reunión española sobre criptología y seguridad de la información. RECSI 2022* (Pp. 205-211). Universidad de Cantabria.

Appendix 1. Scientific publications

K-ryptography and Information Security for Open Networks (KISON)

Torralba-Agell, A. & Pérez-Solà, C. (2022). **A Comparison of Layer 2 Techniques for Scaling Blockchains**. In Sadornil Renedo, D. (Eds.). *XVII Reunión española sobre criptología y seguridad de la información. RECSI 2022* (Pp. 227-232). Universidad de Cantabria.

Vilariño, F. & Serra-Ruiz, J. (2022). **Implementing hackathons with students from multi-disciplinary higher education degrees for a challenge-based learning approach**. In Gómez Chova, L., López Martínez, A. & Candel Torres, I. (Eds.). *EDULEARN22 Proceedings. 14th International Conference on Education and New Learning Technologies* (Pp. 1851-1857). The International Association for Technology, Education and Development (IATED).

Books

Megías, D., Mazurczyk, W. & Kuribayashi, M. (2022). **Data Hiding and Its Applications: Digital Watermarking and Steganography**. MDPI.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Articles

Bach Faig, A., Wickramasinghe, K., Panadero, N., Fàbregues, S., Rippin, H., Halloran, A., Fresán, U., Pattison, M. & Breda, J. (2022). **Consensus-building around the conceptualisation and implementation of sustainable healthy diets: a foundation for policymakers.** *BMC Public Health*, 22 (1), 1-20. DOI: 10.1186/s12889-022-13756-y. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1. (*In collaboration with the interdisciplinary research group on food, nutrition, society and health [FoodLab] at the Universitat Oberta de Catalunya*)

Castañeda, J., Jover, A., Calvet-Liñan, L., Yanes Torrado, S., Juan Perez, A.A. & Sáinz, M. (2022). **Dealing with Gender Bias Issues in Data-Algorithmic Processes: A Social-Statistical Perspective.** *Algorithms*, 15 (9), 1-16. DOI: 10.3390/a15090303. Quartile: SCOPUS SJR: Q2.

Fàbregues, S., Mumbardó-Adam, C., Escalante-Barrios, E.L., Hong, Q.N., Edelstein, D., Vanderboll, K. & Feters, M.D. (2022). **Mixed methods intervention studies in children and adolescents with emotional and behavioral disorders: A methodological review.** *Research in Developmental Disabilities*, 126 (Null), 1-15. DOI: 10.1016/j.ridd.2022.104239. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q2.

Fàbregues, S., Sáinz, M., Romano Serrano, M.J., Escalante-Barrios, E.L., Younas, A. & López Pérez, B. (2022). **Use of mixed methods research in intervention studies to increase young people's interest in STEM: A systematic methodological review.** *Frontiers in Psychology*, 13 (Null), 1-14. DOI: 10.3389/fpsyg.2022.956300. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Fierro, J., Parella, S., Güell, B. & Petroff, A. (2022). **Generational cohorts versus national origin: explaining the educational attainment among children of Latin American immigrants in Spain.** *Ethnicities*, 22 (2), 274-296.

Garrido-Skurkowicz, N., Wittek, R., & la Roi, C. (2022). **Performance of Hybrid Organisations. Challenges and Opportunities for Social and Commercial Enterprises.** *Journal of Social Entrepreneurship*.

Garrido Skurkowicz, N. & Steglich, C. (2022). **Networked solidarity economy: Gender in interorganizational networks. An evaluation with ERGMs.** *Applied Network Science*, 7 (1), 1-25. DOI: 10.1007/s41109-022-00458-y. Quartile: SCOPUS SJR: Q1.

Izquierdo-Useros, N., Marin-Lopez, M.A., Monguió-Tortajada, M., Muñoz-Moreno, J.A., Agusti-Benito, C., Morón-López, S., Evans, H., Gualdrón-López, M., Müller, J. & Prado, J. (2022). **Impact of COVID-19 lockdown in a biomedical research campus: A gender perspective analysis.** *Frontiers in Psychology*, 13 (Null), 1-10. DOI: 10.3389/fpsyg.2022.906072. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Kalpazidou Schmidt, E., Palmén, R., & Bühner, S. (2022). **Policy-making and evaluation of gender equality programmes: Context, power, and resistance in the transformation process.** *Science and Public Policy*, 50 (2).

Melián, E., Mata, S. & Meneses, J. (2022). **L'atenció a l'alumnat amb discapacitat en l'educació superior en línia: El cas de la Universitat Oberta de Catalunya = La atención al alumnado con discapacidad en la educación superior en línea: El caso de la Universitat Oberta de Catalunya.** *Àmbits de Psicopedagogia i Orientació*, Null (56), 80-92. DOI: 10.32093/ambits.vi56.5042.

Melián, E. & Meneses, J. (2022). **Getting ahead in the online university: Disclosure experiences of students with apparent and hidden disabilities.** *International Journal of Educational Research*, 114 (Null), 1-9. DOI: 10.1016/j.ijer.2022.101991. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Müller, J. (2022). **Consolidated report of outreach, dissemination and exploitation activities.** *Zenodo*.

Müller, J. (2022). **Report on the CASPER final conference.** *Zenodo*.

Peters, M.J., Elasri-Ejjaberi, A., Martínez-Argüelles, M.J. & Fàbregues, S. (2022). **Teacher digital competence development in higher education: Overview of systematic reviews.** *Australasian Journal of Educational Technology*, 38 (3), 122-139. DOI: 10.14742/ajet.7543. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1. (In collaboration with the Management & eLearning (MeL) research group at the Universitat Oberta de Catalunya)

Peters, M., Pérez, A. & Fàbregues, S. (2022). **A systematic mapping of E-Learning research: An interdisciplinary and multi-paradigmatic perspective from the Universitat Oberta de Catalunya.** *Electronic Journal of e-Learning*, 20 (4).

Petroff, A. & Fierro, J. (2022). **Crowd work in STEM-related fields: A window of opportunity from a gender perspective?** *Sociology Compass*, 17 (3).

Petroff, A., Sáinz, M. & Arroyo, L. (2022). **A Multilevel Qualitative Perspective to Gendered Life Course, Socialization, and STEM Trajectories Among Emerging Adults in Spain.** *Emerging Adulthood*, 10 (5), 1256-1268. DOI: 10.1177/21676968211021678. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q3.

Reyes, J.I., Meneses, J. & Xavier, M. (2022). **Suitability of Online Higher Education for Learners with Disabilities: The Students' Voices.** *Journal of Special Education Technology*, Advance online publication.

Reyes, J.I., Meneses, J. & Melián, E. (2022). **A systematic review of academic interventions for students with disabilities in Online Higher Education.** *European Journal of Special Needs Education*, 37 (4), 569-586. DOI: 10.1080/08856257.2021.1911525. Quartile: SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Reyes, J.I. & Meneses, J. (2022). **Advising college students with disabilities in online learning.** *Distance Education*, 43 (4), 526-542. DOI: 10.1080/01587919.2022.2121264. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Roqueta-Fernández, M. (2022). **Reseña/ Review (Sampedro, Víctor (Coord.)), “Comunicación política digital en España. Del «pásalo» a Podemos y de Podemos a Vox”, Barcelona, UOC Press, ISBN: 9788491807681, 242 págs., 2021).** *Teknokultura. Revista de cultura digital y movimientos sociales*, 19 (1), 115-117. DOI: 10.5209/tekn.76569.

Rodó de Zárate, M. & Jorba, M. (2022). **Metaphors of intersectionality: Reframing the debate with a new proposal.** *European Journal of Women’s Studies*, 29 (1), 23-38. DOI: 10.1177/1350506820930734. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

Sáinz, M., Fàbregues, S., Romano Serrano, M.J. & López Pérez, B. (2022). **Interventions to Increase Young People’s Interest in STEM. A Scoping Review.** *Frontiers in Psychology*, 13 (Null), 1-17. DOI: 10.3389/fpsyg.2022.954996. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Sáinz, M. & Gallego Arias, M.C. (2022). **High school students’ sexist beliefs about academic abilities and women’s roles: The influence of School Specialization (Creencias sexistas de los estudiantes de enseñanza secundaria sobre las aptitudes académicas y el rol de las mujeres: la influencia de la especialización escolar).** *International Journal of Social Psychology = Revista de Psicología Social*, 37 (2), 383-411. DOI: 10.1080/02134748.2022.2040865. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q3.

Thomson, A., Palmén, R., Reidl, S., Barnard, S., Beranek, S., Dainty, A.R.J. & Hassan, T.M. (2022). **Fostering collaborative approaches to gender equality interventions in higher education and research: The case of transnational and multi-institutional communities of practice.** *Journal*

of Gender Studies, 31 (1), 36-54. DOI: 10.1080/09589236.2021.1935804. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Younas, A., Cuoco, A., Vellone, E., Fàbregues, S., Escalante-Barrios, E.L. & Durante, A. (2022). **Contextual Coding in Qualitative Research Involving Participants with Diverse Sociocultural Backgrounds.** *The Qualitative Report*, Null (Null), 2509-2527. DOI: 10.46743/2160-3715/2022.5702. Quartile: SCOPUS SJR: Q1.

Younas, A., Fàbregues, S., Durante, A. & Ali, P. (2022). **Providing English and native language quotes in qualitative research: A call to action.** *Nursing Open*, 9 (1), 168-174. DOI: 10.1002/nop.2.1115. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q2.

Younas, A., Fàbregues, S. & Durante, A. (2022). **Approaches for educators to effectively teach research and research methods.** *Evidence-Based Nursing*, 25 (4), 114-115. DOI: 10.1136/ebnurs-2022-103606. Quartile: SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Xavier, M. & Meneses, J. (2022). **Persistence and time challenges in an open online university: a case study of the experiences of first-year learners.** *International Journal of Educational Technology in Higher Education*, 19 (1), 1-17. DOI: 10.1186/s41239-022-00338-6. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Xavier, M., Meneses, J. & Fiuza, P. J. (2022). **Dropout, stopout, and time challenges in open online higher education: A qualitative study of the first-year student experience.** *Open Learning: The Journal of Open, Distance and e-Learning*, Advance online publication.

Articles in conference proceedings

Ferran-Ferrer, N., Miquel-Ribé, M., Meneses, J. & Minguillón, J. (2022). **The Gender Perspective in Wikipedia: A Content and Participation Challenge.** In Laforest, F., Troncy, R., Simperl, E., Agarwal, D., Gionis, A., Herman, I. & Médini, L. (Eds.). *Companion Proceedings of the Web Conference 2022 (WWW '22*

Companion) (Pp. 1319–1323). New York: Association for Computing Machinery.

Ramírez-Ordóñez, D., Ferran-Ferrer, N. & Meneses, J. (2022). **Wikipedia and gender: The deleted, the marked, and the unpolluted biographies.** In *Proceedings of 9th International Wiki Workshop 2022, The Web Conference 2022.*

Book chapters

Correa-Urquiza, M. & Pié Balaguer, A. (2022). **Las artes vivas como habilitadoras de diálogo y encuentro en lo intercultural = Les arts vivants comme facilitateurs de dialogue et de rencontre dans l'interculturel.** In Fernández Sobrino, P. & Ledegen, G. (Eds.). *Fusée de Détresse* (Pp. 117-162). Presses Universitaires de Rennes.

Sáinz, M., González-Pérez, S. & Carrascal Domínguez, S. (2022). **Ampliando horizontes de las niñas y jóvenes STEAM a través de la educación y mujeres referentes: Desafíos y**

oportunidades. In Fernández Castro, L. & Carrascal Domínguez, S. (Eds.). *Las mujeres en distintos sectores de actividad en España. Evolución y liderazgo* (Pp. 107-133). EUNSA, Ediciones Universidad de Navarra.

Caprile, M., Bettachy, M., Duhaček, D., Mirazić, M., Palmén, R. & Kussy, A. (2022). **Structural Change Towards Gender Equality: Learning from Bottom-up and Top-down Experiences of GEP Implementation in Universities.** In Wroblewski, A. & Palmén, R. (Eds.). *Overcoming the Challenge of Structural Change in Research Organisations – A Reflexive Approach to Gender Equality* (Pp. 161-179). Emerald Publishing Limited.

Fritch, R., Sauer, A., Barajas, M-A., Petherick, K.J., Murphy, H., Foley, C., Boland, M., Weißemberger, L., Schwan, M. & Palmén, R. (2022). **Guide to Promoting Gender Equality for Research & Innovation Funding Organisations: Data collection and impact monitoring** (1.0). *Zenodo.*

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Guyan, K., Aldercotte, A., Müller, J., Caprile, M. & Yanes Torrado, S. (2022). **The development of the Gender Equality Audit and Monitoring survey.** In Palmén, R. & Muller, J. (Eds.). *A Community of Practice Approach to Improving Gender Equality in Research (1st Ed.)* (Pp. 44-63). Routledge.

Müller, J. & Palmén, R. (2022). **Introduction: Reflecting on a Community of Practice approach to institutional change for a greater gender equality in R&I and HE – Policy and practice.** In Palmén, R. & Muller, J. (Eds.). *A Community of Practice Approach to Improving Gender Equality in Research (1st Ed.)* (Pp. 1-24). Routledge.

Müller, J., Striebing, C. & Schraudner, M. (2022). **Diversity and Discrimination in Research Organizations: Theoretical Starting Points.** In Schraudner, M., Müller, J. & Striebing, C. (Eds.). *Diversity and Discrimination in Research Organizations* (Pp. 3-30). Bingley: Emerald Publishing Limited.

Palmén, R. & Caprile, M. (2022). **Relevance of a CoP for a Reflexive Gender Equality Policy: A Structural Change Approach.** In Wroblewski, A. & Palmén, R. (Eds.). *Overcoming the Challenge of Structural Change in Research Organisations – A Reflexive Approach to Gender Equality* (Pp. 53-69). Emerald Publishing Limited.

Palmén, R. & Müller, J. (2022). **Concluding remarks: Towards Communities of Practice for greater gender equality.** In Palmén, R. & Muller, J. (Eds.). *A Community of Practice Approach to Improving Gender Equality in Research (1st Ed.)* (Pp. 202-215). Routledge.

Palmén, R. & Wroblewski, A. (2022). **Conclusions.** In Wroblewski, A. & Palmén, R. (Eds.). *Overcoming the Challenge of Structural Change in Research Organisations – A Reflexive Approach to Gender Equality* (Pp. 199-212). Emerald Publishing Limited.

Petroff, A. (2022). **Crowdsourcing in ICT Fields: The Link Between Mobility and Digital Labor Markets in Highly Skilled Tasks.** In Baikady, R., Sajid, S., Nadesan, V., Przeperski, J., Islam, M.R. & Gao, J. (Eds.). *The Palgrave Handbook of Global Social Change* (Pp. 1-23). Palgrave Macmillan.

Rabsch, K., Palmén, R., Caprile, M., Vinkenburg, C. & Kublickiene, K. (2022). **Scaling up. From Communities of Practice to the three ERA gender equality and mainstreaming objectives: careers, decision-making and integrating the gender dimension into research and educational content.** In Palmén, R. & Muller, J. (Eds.). *A Community of Practice Approach to Improving Gender Equality in Research (1st Ed.)* (Pp. 187-201). Routledge.

Reiland, S., Palmén, R. & Kamlade, L. (2022). **Disciplinary Communities of Practice for a greater gender equality in physics & life sciences.** In Palmén, R. & Muller, J. (Eds.). *A Community of Practice Approach to Improving Gender Equality in Research (1st Ed.)* (Pp. 118-132). Routledge.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Striebing, C., Müller, J., Schraudner, M., Gewinner, I.V., Morales, P.G., Hochfeld, K., Hoffman, S., Kmec, J.A., Nguyen, H.M., Schneider, J., Sheridan, J., Steuer-Dankert, L., O'Connor, L. T. & Vandeveldde-Rougale, A. (2022). **Promoting Diversity and Combatting Discrimination in Research Organizations: A Practitioner's Guide.** In Striebing, C., Müller, J. & Schraudner, M. (Eds.). *Diversity and Discrimination in Research Organizations* (Pp. 421-441). Emerald Publishing Limited.

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Gender and ICT (GenTIC)

Palmén, R. & Müller, J. (1 September 2022). **A Community of Practice: Approach to Improving Gender Equality in Research**. *IN3 Blog*. Retrieved from: <https://blogs.uoc.edu/in3/a-community-of-practice-approach-to-improving-gender-equality-in-research/>

Petroff, A. (21 July 2022). **Desired immobility and hypermobility**. *IN3 Blog*. Retrieved from: <https://blogs.uoc.edu/in3/desired-immobility-and-hypermobility/>

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Appendix 1. Scientific publications

Global Literary Studies Research Lab (GlobalS)

Articles

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Vidal-Pérez, A. (2022). **Àlex Matas Pons, Els marges dels mapes: Una geografia desplaçada, València, Tres i Quatre, 2021, 190 p., ISBN: 978-84-17469-34-4.** *Caplletra. Revista Internacional de Filologia*, Null (73), 283-288. DOI: 10.7203/Caplletra.73.24642. Quartile: SCOPUS SJR: Q2

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Appendix 1. Scientific publications

Global Literary Studies Research Lab (GlobalS)

Book chapters

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Carbó Catalan, E. & Roig Sanz, D. (2022). **Swinging Between Culture and Politics: Novel Interdisciplinary Perspectives.** In Carbó Catalan, E. & Roig Sanz, D. (Eds.). *Culture as Soft Power. Bridging Cultural Relations, Intellectual Cooperation, and Cultural Diplomacy* (Pp. 1-20). De Gruyter.

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Roig Sanz, D. & Rotger, N. (2022). **Global Literary Studies Through Concepts: Towards the Institutionalisation of an Emerging Field.** In Roig Sanz, D. & Rotger, N. (Eds.). *Global Literary Studies. Key Concepts* (Pp. 1-35). De Gruyter.

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Roig Sanz, D. & Rotger, N. (2022). **Global Literary Studies. Key Concepts.** De Gruyter.

Appendix 1. Scientific publications

Systems, Software and Models (SOM Research Lab)

Articles

Batot, E.R. & Sahraoui, H. (2022). **Promoting social diversity for the automated learning of complex MDE artifacts.** *Software and Systems Modeling*, 21 (3), 1159-1178. DOI: 10.1007/s10270-021-00969-9. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

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Bruneliere, H., Muttillio, V., Eramo, R., Berardinelli, L., Gómez, A., Bagnato, A., Sadovykh, A. & Cicchetti, A. (2022). **AIDOaRt: AI-augmented Automation for DevOps, a model-based framework for continuous development in Cyber-Physical Systems.** *Microprocessors and Microsystems*, 94 (Null), 1-13. DOI: 10.1016/j.micpro.2022.104672. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Burgueño, L., Cabot, J., Li, S. & Gérard, S. (2022). **A generic LSTM neural network architecture to infer heterogeneous model transformations.** *Software and Systems Modeling*, 21 (1), 139-156. DOI: 10.1007/s10270-021-00893-y. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

Burgueño, L., Cabot, J., Wimmer, M. & Zschaler, S. (2022). **Guest editorial to the theme section on AI-enhanced model-driven engineering.** *Software and Systems Modeling*, 21 (3), 963-965. DOI: 10.1007/s10270-022-00988-0. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

Cabot, J. & Vallecillo, A. (2022). **Modeling should be an independent scientific discipline.** *Software and Systems Modeling*, 21 (6), 2101-2107. DOI: 10.1007/s10270-022-01035-8. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

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Clariso, R., Burgueño, L. & Cabot, J. (2022). **Managing Design-time Uncertainty in OCL Expressions.** *Journal of Object Technology*, 21 (4), 1-10. DOI: 10.5381/jot.2022.21.4.a8. Quartile: SCOPUS SJR: Q4.

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and Systems Modeling, Null (21), 1583-1611. DOI: 10.1007/s10270-021-00945-3. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

Hernández López, J.A., Cánovas Izquierdo, J.L. & Sánchez-Cuadrado, J. (2022). **ModelSet: a dataset for machine learning in model-driven engineering.** *Software and Systems Modeling*, 21 (3), 967-986. DOI: 10.1007/s10270-021-00929-3. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q1.

Raffaghelli, J.E., Rodríguez-González, M.E., Guerrero-Roldán, A.E. & Bañeres, D. (2022). **Applying the UTAUT model to explain the students' acceptance of an early warning system in Higher Education.** *Computers and Education*, 182 (Null), 1-14. DOI: 10.1016/j.compedu.2022.104468. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1. (In collaboration with the Technology-Enhanced Knowledge and Interaction [Teking] research group at the UOC)

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Batot, E.R., Gérard, S. & Cabot, J. (2022). **A Survey-driven Feature Model for Software Traceability Approaches.** In Johnsen, E.B. & Wimmer, M. (Eds.). *Fundamental Approaches to Software Engineering. FASE 2022. Lecture Notes in Computer Science*, Vol 13241. Springer, Cham. DOI: 10.1007/978-3-030-99429-7_2. Quartile: SCOPUS SJR: Q2.

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Planas, E., Martínez, S., Brambilla, M. & Cabot, J. (2022). **Towards Access Control Models for Conversational User Interfaces.** In Augusto, A., Gill, A., Bork, D., Nurcan, S., Reinhartz-Berger, I. &

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Gómez-Gutiérrez, J.A., Clarisó, R. & Cabot, J. (2022). **A Tool for Debugging Unsatisfiable Integrity Constraints in UML/OCL Class Diagrams**. In *Lecture Notes in Business Information Processing*, 450 (Null), 267-275. DOI: 10.1007/978-3-031-07475-2_18. Quartile: SCOPUS SJR: Q3.

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Ait-Fonollà, A., Cánovas Izquierdo, J.L. & Cabot, J. (2022). **An Empirical Study on the Survival Rate of GitHub Projects**. In *MSR'22: Proceedings of the 19th International Conference on Mining Software Repositories* (Pp. 365-375). Association for Computing Machinery. DOI: 10.1145/3524842.3527941.

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Marco-Simó, J.M., Huertas, M.A., Marco-Galindo, M.J., Planas, E., Santamaría Pérez, E., Serra Vizern, M. & García García, M.J. (2022). **Un caso de incorporación de la perspectiva de género: De la estrategia institucional a la asignatura final**. In Paramá Gabía, J. R. & Catalán Cantero, C. (Eds.). *Actas de las XXVIII Jornadas sobre la Enseñanza Universitaria de la Informática (JENUI 2022)*. AENUI - Asociación de Enseñantes Universitarios de la Informática.

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Rodríguez-González, M.E., Bañeres, D. & Guerrero-Roldán, A.E. (2022). **Hacia un sistema de detección temprana del riesgo de abandono en entornos en línea**. In Paramá Gabía, J.R. & Catalán Cantero, C. (Eds.). *Actas de las XXVIII Jornadas sobre la Enseñanza Universitaria de la Informática (JENUI 2022)* (Pp. 193-200). AENUI - Asociación de Enseñantes Universitarios de la Informática.

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Appendix 1. Scientific publications

Urban Transformation and Global Change Laboratory (TURBA Lab)

Articles

Argüelles, L., Cole, H. & Anguelovski, I. (2022). **Rail-to-park transformations in 21st century modern cities: Green gentrification on track.** *Environment and Planning E: Nature and Space*, 5 (2), 810-834. DOI: 10.1177/25148486211010064. Quartile: ISI JCR: Q2.

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Cámara Menoyo, C., Vivas-Elias, P., Ribera-Fumaz, R. & León Casero, J. (2022). **Hacia una agenda urbana del común: Un estudio de caso de las reivindicaciones políticas de los comunes urbanos en Barcelona.** *Eure-Revista Latinoamericana de Estudios Urbano Regionales*, 48 (143), 1-20. DOI: 10.7764/EURE.48.143.11. Quartile: ISI JCR: Q4 | SCOPUS SJR: Q2.

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Appendix 1. Scientific publications

Urban Transformation and Global Change Laboratory (TURBA Lab)

Raymond, C., Cebrián-Piqueras, M.A., Andersson, E., Andrade, R., Arroyo Schnell, A., Battioni Romanelli, B., Filyushkina, A., Goodson, D.J., Horcea Milcu, A., Johnson, D., Keller, R., Kuiper, J.J., Lo, V.B., López-Rodríguez, M.D., March, H., Metzger, M.J., Oteros Rozas, E., Salcido, E., Sellberg, M., Stewart, W., Ruiz-Mallen, I., Plieninger, T., van Riper, C.J., Verburg, P.H. & Wiedermann, M.M. (2022). **Inclusive conservation and the Post-2020 Global Biodiversity Framework: Tensions and prospects.** *One Earth*, 5 (3), 252-264. DOI: 10.1016/j.oneear.2022.02.008.

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Ruiz-Mallen, I., Satorras, M., March, H. & Baró, F. (2022). **Community climate resilience and environmental education: Opportunities and challenges for transformative learning.** *Environmental Education Research*, 28 (7), 1088-1107. DOI: 10.1080/13504622.2022.2070602. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Zapana-Churata, L., Saurí, D., Satorras, M. & March, H. (2022). **Water supply in Covid-19 times: the role of public operators, housing associations and informal providers in Arequipa, Peru.** *Water International*. DOI: 10.1080/02508060.2022.2101225. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Zapana-Churata, L., March, H. & Saurí, D. (2022). **Water demand management strategies in fast-growing cities. The case of Arequipa, Perú.** *International Journal of Water Resources Development*, 38 (3), 363-387. DOI: 10.1080/07900627.2021.1903401. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Book chapters

Baró, F., Camacho, D., Pérez del Pulgar, C., Ruiz-Mallen, I. & García-Serrano, P. (2022). **Nature-Based Climate Solutions in European Schools: A Pioneering Co-designed Strategy Towards Urban Resilience.** In Ruiz-Mallen, I., Satorras, M. & March, H. (Eds.). *Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives* (Pp. 125-146). Springer. DOI: 10.1007/978-3-031-07301-4_6.

Charnock, G., March, H. & Ribera-Fumaz, R. (2022). **Austerity and the rebel city. The right to the (smart) city in Barcelona.** In Kaika, M., Velegrakis, G. & Calvário, R. (Eds.). *The Political Ecology of Austerity. Crisis, Social Movements, and the Environment* (Pp. 15-32). Routledge. DOI: 10.4324/9781003036265-3.

Appendix 1. Scientific publications

Urban Transformation and Global Change Laboratory (TURBA Lab)

Kovacic, Z. (2022). **Il valore della “scomodità” per la teorizzazione della scienza post-normale.** In Mangia, C. & L'Astorina A. (Eds.). *Scienza, politica e società: L'approccio post-normale in teoria e nelle pratiche* (Pp. 67-72). Consiglio Nazionale delle Ricerche. DOI:10.26324/SIA1.PNS7.

March, H. & Swyngedouw, E. (2022). **Resilience for All or for Some? Reflections Through the Lens of Urban Political Ecology.** In Satorras, M., Ruiz Mallén, I. & March, H. (Eds.). *Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives* (Pp. 3-19). Springer. DOI: 10.1007/978-3-031-07301-4_1.

Ruiz-Mallen, I., Heras, M., Ribera-Fumaz, R., March, H. & Corres, A. (2022). **The highs and lows of working EDS competences into HEI frameworks.** In Vare, P., Rieckmann, M. & Lausset, N. (Eds.). *Competences in Education for Sustainable Development. Critical Perspectives* (Pp. 79-84). Springer. DOI: 10.1007/978-3-030-91055-6_10.

Ruiz-Mallen, I. (2022). **Afterword: Transformation Pathways Within Urban Climate Resilience.** In Satorras, M., Ruiz Mallén, I. & March, H. (Eds.). *Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives* (Pp. 227-238). Springer. DOI: 10.1007/978-3-031-07301-4_10.

Ruiz-Mallen, I. (2022). **Preface.** In Satorras, M., Ruiz Mallén, I. & March, H. (Eds.). *Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives* (Pp. IX-XI). Springer.

Strand, R. & Kovacic, Z. (2022). **The Data of the Rose.** In Capone, L., Rodriguez-Lluesma, C. & Bertolaso, M. (Eds.). *Digital Humanism. A Human-Centric Approach to Digital Technologies* (Pp. 49-57). Palgrave Macmillan Ltd. DOI: 10.1007/978-3-030-97054-3_4.

Strange, K., Satorras, M. & March, H. (2022). **Bridging Urban Climate Justice and Participatory Governance to Explore the Transformative Capacity of Climate Resilience.** In Satorras, M., Ruiz Mallén, I. & March, H. (Eds.). *Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives* (Pp. 21-42). Springer. DOI: 10.1007/978-3-031-07301-4_2.

Books

Ruiz-Mallen, I., March, H. & Satorras, M. (2022). **Urban Resilience to the Climate Emergency. Unravelling the transformative potential of institutional and grassroots initiatives.** Springer.

Appendix 1. Scientific publications

Wireless Networks Research Lab (WiNe)

Articles

Adelantado, F., Ammouriova, M., Herrera, E., Juan Perez, A.A., Shinde, S.S. & Tarchi, D. (2022). **Internet of Vehicles and Real-Time Optimization Algorithms: Concepts for Vehicle Networking in Smart Cities**. *Vehicles*, 4 (4), 1223-1245. DOI: 10.3390/vehicles4040065.

Famitafreshi, G., Afaqui, M.S. & Melià Seguí, J. (2022). **Enabling Energy Harvesting-Based Wi-Fi System for an e-Health Application: A MAC Layer Perspective**. *Sensors*, 22 (10), 1-32. DOI: 10.3390/s22103831. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Famitafreshi, G. & Cano Bastidas, C. (2022). **Achieving proportional fairness in WiFi networks via bandit convex optimization**. *Annales des Télécommunications = Annals of Telecommunications*, Null (77), 281-295. DOI: 10.1007/s12243-021-00887-3. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q2.

Lejarreta-Andrés, J., Melià Seguí, J., Bhattacharyya, R., Vilajosana, X. & Sarma, S.E. (2022). **Toward Low-Cost RF-Based Bulk Fabric Classification for the Textile Industry**. *IEEE Sensors Journal*, 22 (16), 16586-16594. DOI: 10.1109/JSEN.2022.3188936. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Martínez-Huerta, B. & Vilajosana, X. (2022). **On the Sustainability of Virtual Platforms: A Behavioral Intervention**. *IEEE Access*, 10 (Null), 29194-29206. DOI: 10.1109/ACCESS.2022.3159242.

Martínez-Huerta, B. & Vilajosana, X. (2022). **Exploiting the Solar Energy Surplus for Edge Computing**. *IEEE Transactions on Sustainable Computing*, 7 (1), 135-143. DOI: 10.1109/TSUSC.2021.3058588. Quartile: SCOPUS SJR: Q1.

Morell, A., Díaz Machado, E., Miranda, E., Boquet, G. & López Vicario, J. (2022). **Ternary Neural Networks Based on on/off Memristors: Set-Up and Training**. *Electronics*, 11 (10), 1-17. DOI: 10.3390/electronics11101526. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q2.

Ojaghi, B., Adelantado, F., Antonopoulos, A. & Verikoukis, C. (2022). **SlicedRAN: Service-Aware Network Slicing Framework for 5G Radio Access Networks**. *IEEE Systems Journal*, 16 (2), 2556-2567. DOI: 10.1109/JSYST.2021.3064398.

Ojaghi, B., Adelantado, F., Antonopoulos, A. & Verikoukis, C. (2022). **Impact of Network Densification on Joint Slicing and Functional Splitting in 5G**. *IEEE Communications Magazine*, 60 (7), 30-35. DOI: 10.1109/MCOM.001.2100680. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Savic, T., Vilajosana, X. & Watteyne, T. (2022). **Constrained Localization: A Survey**. *IEEE Access*, 10 (Null), 49297-49321. DOI: 10.1109/ACCESS.2022.3171859. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Wireless Networks Research Lab (WiNe)

Suciu, I., Boquet, G., Tuset-Peiró, P. & Vilajosana, X. (2022). **ADO: An open digital end-to-end tank based aquaculture platform**. *HardwareX*, 11 (Null), 1-18. DOI: 10.1016/j.ohx.2022.e00283. Quartile: SCOPUS SJR: Q2.

Tanaka, Y., Minet, P., Vucinic, M., Vilajosana, X. & Watteyne, T. (2022). **YSF: A 6TiSCH Scheduling Function Minimizing Latency of Data Gathering in IIoT**. *IEEE Internet of Things Journal*, 9 (11), 8607-8615. DOI: 10.1109/JIOT.2021.3118017. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Melià Seguí, J., Rojas Pérez, I., Lejarreta-Andrés, J. & Vilajosana, X. (2022). **Towards Measurement Range Extension of UHF RFID Temperature Sensors for Industrial Applications**. In *2022 IEEE International Conference on RFID (RFID)* (Pp. 12-16). IEEE - Institute of Electrical and Electronics Engineers. DOI: 10.1109/RFID54732.2022.9795975.

Book chapters

Alfayoumi, S. & Vilajosana, X. (2022). **Attacker Identification In LoRaWAN Through Physical Channel Fingerprinting**. In *2022 IEEE 95th Vehicular Technology Conference: (VTC2022-Spring)* (Pp. 1-5). IEEE - Institute of Electrical and Electronics Engineers. DOI: 10.1109/VTC2022-Spring54318.2022.9860674. Quartile: SCOPUS SJR: Q3.

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Appendix 2.
Doctoral theses

Appendix 2. Doctoral theses

Communication Networks & Social Change (CNSC)

Babette Haberer, A.M. (2022). *Reforming political party organization in the XXIst century. On the transformative effect of network parties on modern representative democracy.*

Supervisors: **Dr Ismael Peña López** (Escuela de Administración Pública de Catalunya) and **Dr Antonio Calleja López** (Universitat Oberta de Catalunya - CNSC).
Doctoral programme in the Information and Knowledge Society at the Universitat Oberta de Catalunya.

Terren, L. (2022). *Democratising and enlightening? Investigating the role of social media in the democratisation of the public sphere, political deliberation and public opinion.*

Supervisors: **Dr Rosa Borge** (Universitat Oberta de Catalunya - Faculty of Law and Political Science) and **Dr Anna Clua Infante** (Universitat Politècnica de Catalunya).
Doctoral programme in the Information and Knowledge Society at the Universitat Oberta de Catalunya.

Global Literary Studies Research Lab (GlobalS)

Schönborn, H.S. (2022). *Contested rights to grieve in narratives of forced migrants living in Nordrhein-Westfalen (Germany).*

Supervisor: **Dr Natalia Cantó Milà** (Universitat Oberta de Catalunya - GlobalS and Faculty of Arts and Humanities).
Doctoral programme in the Information and Knowledge Society at the Universitat Oberta de Catalunya.

Appendix 2. Doctoral theses

Gender and ICT (GenTIC)

Rozenwajn Acheroy, S. (2022). *Influencia de los Estereotipos de Género en la Educación Deportiva de Jóvenes en Centros de Entrenamiento Profesional y en Centros Deportivos*.

Supervisors: **Dr Milagros Sáinz Ibáñez** (Universitat Oberta de Catalunya - GenTIC) and **Dr Sara García-Cuesta** (Universidad de La Laguna).

Doctoral programme in Interdisciplinary Gender Studies (interuniversity).

Systems, Software and Models Research Lab (SOM Research Lab)

Alfonso, D.I. (2022). *IoT@run-time: A model-based approach to support deployment and self-adaptations in IoT systems*.

Supervisors: **Dr Kelly Garcés** (Universidad de los Andes), **Dr Harold Castro** (Universidad de los Andes) and **Dr Jordi Cabot** (Universitat Oberta de Catalunya - SOM Research Lab).

Doctoral programme in Network and Information Technologies at the Universitat Oberta de Catalunya and doctoral programme in Engineering at the Universidad de los Andes.

Appendix 2. Doctoral theses

Urban Transformation and Global Change Laboratory (TURBA Lab)

Erol, A. (2022). *Reformulation of the relationship between individual freedom and technology theorized through/by the channel of cinematic philosophy.*

Supervisors: **Dr Jordi Sánchez Navarro** (Universitat Oberta de Catalunya - Faculty of Information and Communication Sciences and the Learning, Media and Entertainment Research Group [GAME]) and **Dr Ivan Serrano** (Universitat Oberta de Catalunya - TURBA Lab and Faculty of Law and Political Science).

Doctoral programme in Humanities and Communication at the Universitat Oberta de Catalunya.

Zherdev, N. (2022). *The festivalization of the creative city: A study of two creative quarters in Barcelona and Berlin.*

Supervisors: **Dr Ramon Ribera Fumaz** (Universitat Oberta de Catalunya - TURBA Lab and Faculty of Economics and Business) and **Dr Alba Colombo** (Universitat Oberta de Catalunya - Faculty of Arts and Humanities).

Doctoral programme in the Information and Knowledge Society at the Universitat Oberta de Catalunya.

Wireless Networks (WiNe)

Galve Ceamanos, S. (2022). *Predictive maintenance of industrial water cooling systems.*

Supervisors: **Dr Vicenç Puig** (Universitat Politècnica de Catalunya) and **Dr Xavier Vilajosana** (Universitat Oberta de Catalunya - WiNe and Faculty of Computer Science, Multimedia and Telecommunications).

Doctoral programme in Network and Information Technologies at the Universitat Oberta de Catalunya.

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Appendix 3.
Projects

Appendix 3. Projects

International projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Smart Cities in Global Comparative Perspective: Worlding and Provincializing Relationships	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2020-2023	Sciences and Humanities Research Council of Canada
Path Selection Engine for Reliable and Available Wireless	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2021-2022	Cisco Systems International B.V.
An algorithmic awareness paradox? Exploring the causes and contradictions of algorithmic awareness	Communication Networks & Social Change (CNCS)	Sara Paz Suárez Gonzalo	2021-2028	Sciences and Humanities Research Council of Canada
Aging in Data	Communication Networks & Social Change (CNCS)	Mireia Fernández-Ardèvol	2021-2028	Sciences and Humanities Research Council of Canada

Appendix 3. Projects

European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>+RESILIENT Mediterranean Open RESouRcEs for Social Innovation of Socially Responsive ENTERprises</u>	Gender and ICT (GenTIC), in collaboration with research groups at other universities or centres	Jörg Müller	2018-2022	European Commission
<u>Redes Sociales del Pasado. Mapeo de la Modernidad Literaria Hispana y Lusófona, 1898-1959</u>	Global Literary Studies Research Lab (GlobalS)	Diana Roig-Sanz	2018-2024	European Commission
<u>PyroLife – Formando una nueva generación de expertos/as en la gestión integrada de incendios forestales</u>	Care and Preparedness in the Network Society (CareNet), in collaboration with research groups at other universities or centres	Míriam Arenas Conejo	2019-2024	European Commission
<u>Platform Labour in Urban Spaces: Fairness, Welfare, Development</u>	Digital Commons (Dimmons), in collaboration with research groups at other universities or centres	Mayo Fuster Morell	2019-2022	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>Unleashing future-facing urban hubs through culture and creativity-led strategies of transformative time</u>	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2020-2024	European Commission
<u>CASPER Certification-Award Systems to Promote gender Equality in Research</u>	Gender and ICT (GenTIC), in collaboration with research groups at other universities or centres	Jörg Müller	2020-2022	European Commission
<u>AIDOaRT AI-augmented automation for efficient DevOps, a model-based framework for continuous development At RunTime in cyber-physical systems</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2024	European Commission
<u>TRANSACT Transform safety-critical cyber-physical systems into distributed solutions for end-users and partners</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Abel Gómez Llana	2021-2024	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Consultant to Review the SFI Gender Strategy and Gender, Equality, Diversity and Inclusion (EDI) Policies and Practices within SFI	Gender and ICT (GenTIC)	Rachel Louise Palmén	2022	Science Foundation Ireland
Activating Spaces with neuroDiverse Publics	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2022	European Commission
<u>INSPIRE Centre of Excellence on Inclusive Gender Equality in Research & Innovation: Creating Knowledge & Engaging in Collaborative Action</u>	Gender and ICT (GenTIC), in collaboration with research groups at other universities or centres	Rachel Louise Palmén	2022-2026	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Educational Toolkit for Secondary Schools in Wildfires and the Climate Change Context	Care and Preparedness in the Network Society (CareNet), in collaboration with research groups at other universities or centres	Míriam Arenas Conejo	2021-2024	European Commission
SB-RA2-TA3: Relevance of intelligent tutoring systems to IP education	Systems, Software and Models Research Lab (SOM Research Lab)	David Bañeres Besora	2022-2024	European Patent Office (EPO)
Deep learning for multi-technology fusion in industrial indoor asset localization and tracking	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2023	European Commission

Appendix 3. Projects

National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>GESTEMI Efectos y eficacia de las intervenciones para incrementar el interés de las jóvenes por estudios y profesiones científicas y tecnológicas</u>	Gender and ICT (GenTIC), in collaboration with the Universidad de La Laguna	Milagros Sáinz Ibáñez	2018-2022	Spanish Ministry of Science, Innovation and Universities
The political ecology of urban resilience to hydro-climatic events in Spain	Urban Transformation and Global Change Laboratory (TURBA Lab)	Hug March Corbella and Isabel Ruiz Mallén	2019-2022	Spanish Ministry of Science, Innovation and Universities
GDPR-compliant CONSUMER oriENTed IOT (CONSENT): HOME IOT	K-ryptography and Information Security for Open Networks (KISON)	David Megías Jiménez and Helena Rifà Pous	2019-2022	Spanish Ministry of Science, Innovation and Universities
An inclusive approach to assessing integrative scenarios and visions for protected area management	Urban Transformation and Global Change Laboratory (TURBA Lab)	Isabel Ruiz Mallén	2019-2022	Spanish Ministry of Science, Innovation and Universities

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Shaping 5G technologies and beyond to support the digitalization of the industry	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2019-2022	Spanish Ministry of Science, Innovation and Universities
Low-cost, UHF RFID sensor for fabric material detection and on-body sensing	Wireless Networks (WiNe)	Joan Melià Seguí	2020-2022	“la Caixa” Foundation
<u>DISSIMILAR Detection of Fake News on Social Media Platforms</u>	K-ryptography and Information Security for Open Networks (KISON) and Communication Networks & Social Change (CNSC)	David Megías Jiménez	2021-2024	Spanish Ministry of Science, Innovation and Universities
<u>LOCOS Low-code development of smart software</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera and Robert Clarisó Viladrosa	2021-2024	Spanish Ministry of Science, Innovation and Universities

Appendix 3. Projects

National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Gender equality qualities of the platform economy. A framework of analysis	Digital Commons (Dimmons)	Mayo Fuster Morell	2021-2024	Spanish Ministry of Science, Innovation and Universities
La novela como forma global. Desafíos poéticos y circulación literaria transfronteriza	Global Literary Studies Research Lab (GlobalS), in collaboration with the UOC Faculty of Arts and Humanities	Neus Rotger Cerdà and Marta Puxan Oliva	2021-2024	Spanish Ministry of Science, Innovation and Universities
<u>BODI Bots para interactuar con datos abiertos - Interfaces conversacionales para facilitar el acceso a los datos públicos</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2023	Spanish Ministry of Science, Innovation and Universities
Realizing potentials of nature-based climate shelters in school environments for urban transformation	Urban Transformation and Global Change Laboratory (TURBA Lab)	Isabel Ruiz Mallén	2022-2025	Spanish Ministry of Science, Innovation and Universities

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
humAn complex system ecoloGy in sOcial and uRbAn Spaces	Complex Systems @ IN3 (CoSIN3)	Javier Borge Holthoefer	2022-2025	Spanish Ministry of Science, Innovation and Universities
<u>HORIGESTEM Ampliando horizontes de las chicas en ámbitos de ciencia y tecnología (STEM) a través de intervenciones con mujeres referentes</u>	Gender and ICT (GenTIC), in collaboration with the Universidad CEU San Pablo and the University of California	Milagros Sáinz Ibáñez	2022-2025	Spanish Ministry of Science, Innovation and Universities
Bringing Sustainable Cybersecurity to the Internet of Things – Cybersecurity	K-ryptography and Information Security for Open Networks (KISON)	David Megías Jiménez	2022-2025	Spanish Ministry of Science, Innovation and Universities
Evolución y usos alternativos de la conectividad como respuesta a la digitalización sostenible de la sociedad	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2025	Spanish Ministry of Science, Innovation and Universities

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Bots inteligentes para el desarrollo de Open Source	Systems, Software and Models (SOM Research Lab)	Jordi Cabot Sagrera and Javier Luis Cánovas Izquierdo	2022-2024	Spanish Ministry of Science, Innovation and Universities
The Digital Turn in Environmental Governance: Insights from the energy and agri-food systems	Urban Transformation and Global Change Laboratory (TURBA Lab)	Lucía Argüelles Ramos and Zora Kovacic	2022-2024	Spanish Ministry of Science, Innovation and Universities
Habilitando la Nube Continua y Sostenible	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2024	Spanish Ministry of Science, Innovation and Universities
3D Printing All-Solid State Batteries for the Internet of Things Applications (3DSTORE)	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2025	Spanish Ministry of Science, Innovation and Universities

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Regional projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Looming Factory	Wireless Networks (WiNe)	Pere Tuset Peiró	2019-2022	Justice Department, Government of Catalonia
Predictive maintenance of industrial cooling systems	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2019-2022	Catalan University and Research Grant Management Agency (AGAUR)
FEM IOT	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2019-2022	Government of Catalonia
Generació massiva de xatbots sota demanda. Xatkit	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2020-2022	Catalan University and Research Grant Management Agency (AGAUR)

Appendix 3. Projects

Regional projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
MOBILITY LAB ANOIA	K-ryptography and Information Security for Open Networks (KISON) and the Learning, Media and Entertainment Research Group (GAME)	Jordi Serra-Ruiz	2021-2022	Government of Catalonia
<u>WUICOM-BCN Comunidades de interfaz resilientes en el fuego de Barcelona</u>	Care and Preparedness in the Network Society (CareNet)	Israel Rodríguez Giralt	2021-2023	Barcelona City Council
<u>LIKE-BCN: Social accessIble, and walKable Barcelona</u>	Complex Systems @ IN3 (CoSIN3)	Albert Solé Ribalta	2021-2023	Barcelona City Council

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Appendix 4. Consultancy services

Appendix 4. Consultancy services

International consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Adaptation model for the Brief Early Quality Inventory (BEQI), a pilot study	Gender and ICT (GenTIC)	Sergi Fàbregues Feijóo	2022	Universidad del Norte
TRABOTS Theoretical, methodological and technological supervision and identification of scientific and technological contributions in formal methods and model-driven software development in the context of the project	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2022	Universidad de la Frontera

Appendix 4. Consultancy services

European consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Traceable co-evolution and certification in the age of versatile software systems	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2022	Commissariat à l'Énergie Atomique et aux Énergies Alternatives

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National consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>AIDoART AI-augmented automation for efficient DevOps, a model-based framework for continuous development At RunTime in cyber-physical systems</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2024	Spanish Ministry of Industry, Trade and Tourism
<u>TRANSACT Transform safety-critical cyber-physical systems into distributed solutions for end-users and partners</u>	Systems, Software and Models Research Lab (SOM Research Lab)	Abel Gómez Llana	2021-2024	Spanish Ministry of Industry, Trade and Tourism
Preparation of a report on the geopolitics of technology and technology sovereignty	Communication Networks & Social Change (CNCS)	Antonio Calleja López	2022	Oxfam Intermón Foundation
Framework collaboration agreement between the Universitat Oberta de Catalunya and the ASTI Talent & Technology Foundation	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2022-2025	ASTI Talent and Technology Foundation

Appendix 4. Consultancy services


Regional consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>Barcelona UOC Chair in Digital Economy: For a sharing economy centred on people's well-being and the right to the city</u>	Digital Commons (Dimmons)	Mayo Fuster Morell	2020-2023	Barcelona City Council
Scientific mentoring for the Advisory Board of the Advanced Digital Technologies in Cybersecurity Challenge	K-ryptography and Information Security for Open Networks (KISON)	Helena Rifà Pous	2021-2022	I2CAT Foundation
Review of the Bretxa Digital Hospitalet (Hospitalet Digital Divide) survey	Communication Networks & Social Change (CNCS)	Mireia Fernández-Ardèvol	2022	Barcelona Mobile World Capital Foundation

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