



CURRÍCULUM VÍTAE NORMALIZADO



Albert Solé Ribalta

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Albert Solé Ribalta obtained the degree in Computer Science and the Master in Artificial Intelligence in 2007, both from the Universitat Rovira i Virgili. In 2012, he obtained the PhD in Computer Science from the same university. The PhD was developed between 2008 and 2012 and addressed the development of multiple graph matching algorithms. Among other appointments during the PhD, he taught at the Department of Computer Science and Mathematics and did a visiting of 9 months at the Università Ca' Foscari Venezia (Italy). After the PhD, he joined the Alephsys Lab (Algorithms Embedded in Physical Systems) under the supervision of Prof. Alex Arenas, where he learned the fundamentals of complex system. During the 4-year duration of the post-doctoral scholarship, he has contributed to the foundation of Multiplex networks with special attention to centrality measures, dynamical processes, and urban science. In 2016, Albert joined the CoSIN3 research group at the Universitat Oberta de Catalunya where he assisted the group leader, Dr. Borge Holthoefer, to position CoSIN3 to the forefront of complex systems research. After 3 years in the institution, he obtained a professor position at the Department of Computer Science, combined with a visiting professor stay at the Universität Zürich with Prof. Claudio Tessone. During his academic career, Albert has worked on several research areas under the umbrella of network science: computational social sciences, urban science, human and urban ecology, community ecology and dynamical processes on complex networks. His scientific contributions have been published in several high impact journals which include: PNAS, Physical Review X, Physical Review L, Nature Communications, or PNAS Nexus, but also in specialized journals such as Networks and Spatial Economics, Transportation Research Part C, Urban Climate or Cities, among others. His scientific metrics add up to more than 50 peer-reviewed works that accumulate more than 4300 citations, H-Index of 25, with 8 articles with more than 100 citations. Albert has also received multiple awards, which include the 2024 Web Science Trust Test of Time Award from the Web Science Trust (WST) and two times the "Premi Cross, Inter, and Trans-disciplinary Collaborations" from the Universitat Oberta de Catalunya in 2022 and 2024. Furthermore, his work has been discussed in more than 40 conferences, including the most important ones in complex systems: Conference on Complex Systems, NetSci, CompleNet. Some of these scientific contributions have transcended the academic sphere and have captured the attention of media --newspapers, radio.

He has also been involved in many Spanish and European projects as a research member, and he has acted as a PI in a Fundació "La Caixa" project (2022-23), and a co-PI in AGORAS (AEI, PID2021-128966NB-I00). Albert has also strong compromise with the scientific community: he is elected member of the council of the Complex System Society, member of Complexitat.cat and COMSOTEC, together with his activity as a reviewer in high-impact journals (e.g., Physical Review L, Physical Review E, Environment and Planning B, among many others). He has also organized several national and international conferences (Data Science in/for Barcelona 2022 and 2023, Comsotec



2022, VI Jornades de Complexitat and CCS'20 "Satellite Workshop on Computational Social Science"). Finally, it is worth also citing his involvement in training master, PhD students, and post-doctoral researchers. He has directed 16 final master thesis, one PhD student, Maria Palazzi (who obtained the Wagenseberg Prize from Complexitat.cat) and he is currently directing 3 PhD students, of which 2 will read the PhD thesis in spring 2025.

B.1. Breve descripción del Trabajo de Fin de Grado (TFG) y puntuación obtenida

B.2. Breve descripción del Trabajo de Fin de Máster (TFM) y puntuación obtenida



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Quality indexes:

GOOGLE SCHOLAR (Albert Solé-Ribalta)
-citas totales: 4486
-índice-h: 26

Science outreach:

Check list at: https://drive.google.com/file/d/1Ltwn1lwLR80zZioH_gkuMPc9ysG881qr/view?usp=sharing



Albert Solé Ribalta

Surname(s): **Solé Ribalta**
Name: **Albert**
ORCID: **0000-0002-2953-5338**
ScopusID: **35088805900**
Contact aut. region/reg.: **Catalonia**
Personal web page: <https://scholar.google.es/citations?user=1Dn1pSgAAAAJ&hl=en>

Current professional situation

- 1 Employing entity:** COMPLEXITAT (Catalan Network for the Study of Complex Systems)
Professional category: Board Member / Vocal
Start date: 01/10/2022
Identify key words: Physics - Complex systems
- 2 Employing entity:** COMSOTEC (Asociación para el estudio de Sistemas Complejos Sociotecnológicos)
Professional category: Board Member / Vocal
Start date: 01/05/2022
Identify key words: Physics - Complex systems
- 3 Employing entity:** Complex Systems Society **Type of entity:** Associations and Groups
Professional category: Elected Council Member
Start date: 01/01/2022
Type of contract: Civil servant **Dedication regime:** Part time
Identify key words: Physics - Complex systems
- 4 Employing entity:** Universitat Oberta de Catalunya **Type of entity:** University
Department: Estudios de Informática, Multimedia y Telecomunicación, Internet Interdisciplinary Institute
Professional category: Profesor Agregado
City employing entity: Spain
Phone: (+34) 600410227
Start date: 01/06/2019
Identify key words: Algorithms; Physics - Complex systems

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Oberta de Catalunya	Post-doctoral Student	01/10/2016
2	Universitat Rovira i Virgili	Investigador ordinario	04/02/2013



	Employing entity	Professional category	Start date
3	Universitat Oberta de Catalunya	Escritura de material docente	2012
4	Universitat Rovira i Virgili	Profesor asociado	2012
5	Universitat Rovira i Virgili	Becario Predoctoral	01/09/2009
6	Universitat Rovira i Virgili	Professor asociado	2005
7	Grup Micros	Software developer	2008
8	Universitat Rovira i Virgili	Becario de proyecto (K4Care)	2006
9	Universitat Rovira i Virgili	Becario de proyecto (Coordinated Exploration of Wide-Area Environments with Multiple Robots Through Vision-Based 3D SLAM)	2005

1 Employing entity: Universitat Oberta de Catalunya

Type of entity: University

Professional category: Post-doctoral Student

Start-End date: 01/10/2016 - 01/06/2019

2 Employing entity: Universitat Rovira i Virgili

Department: Universitat Rovira i Virgili, Universitat Rovira i Virgili

City employing entity: Tarragona,

Professional category: Investigador ordinario

Start-End date: 04/02/2013 - 30/09/2016

Type of contract: Grant-assisted student (pre or post-doctoral, others)

3 Employing entity: Universitat Oberta de Catalunya

Type of entity: University

Professional category: Escritura de material docente

Start-End date: 2012 - 2013

4 Employing entity: Universitat Rovira i Virgili

Type of entity: University

Professional category: Profesor asociado

Start-End date: 2012 - 2013

5 Employing entity: Universitat Rovira i Virgili

Type of entity: University

Professional category: Becario Predoctoral

Start-End date: 01/09/2009 - 01/09/2012

Duration: 4 years

6 Employing entity: Universitat Rovira i Virgili

Type of entity: University

Professional category: Professor asociado

Start-End date: 2005 - 2011

7 Employing entity: Grup Micros

Type of entity: University

Professional category: Software developer

Start-End date: 2008 - 2009

8 Employing entity: Universitat Rovira i Virgili

Type of entity: University

Professional category: Becario de proyecto (K4Care)

Start-End date: 2006 - 2008



9

Employing entity: Universitat Rovira i Virgili

Type of entity: University

Professional category: Becario de proyecto (Coordinated Exploration of Wide-Area Environments with Multiple Robots Through Vision-Based 3D SLAM)

Start-End date: 2005 - 2005

Duration: 6 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 University degree: Higher degree

Name of qualification: Master Universitario en Inteligencia Artificial

Degree awarding entity: Universitat Rovira i Virgili **Type of entity:** University

Date of qualification: 31/07/2007

2 University degree: Higher degree

Name of qualification: Ingeniero Superior en Informática

Degree awarding entity: Universitat Rovira i Virgili **Type of entity:** University

Date of qualification: 07/06/2007

3 University degree: Middle degree

Name of qualification: Ingeniero informático de sistemas

Degree awarding entity: Universitat Rovira i Virgili **Type of entity:** University

Date of qualification: 01/10/2004

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Ingeniería Informática

Degree awarding entity: Universitat Rovira i Virgili **Type of entity:** University

Date of degree: 11/07/2012

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Italian		A1	A1	A1	
Catalan		C1	C1	C1	C1
Spanish		C1	C1	C1	C1
English		C1	C1	C1	C1

Teaching experience



General teaching experience

1 Name of the course: 22.419 Análisis en entornos de Big Data

University degree: B.S. Ciencia de Datos Aplicada (22.419) - Ongoing

Start date: 01/09/2021

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

2 Name of the course: B0.475 Fundamentos de inteligencia de negocio

University degree: MSc. Inteligencia de Negocio y Big Data (B0.475) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

3 Name of the course: B0.485 Tecnologías de Batch Processing

University degree: MSc. Inteligencia de Negocio y Big Data (B0.485) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

4 Name of the course: B0.486 Tecnologías de Stream Processing

University degree: MSc. Inteligencia de Negocio y Big Data (B0.486) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

5 Name of the course: B0.476 Fundamentos de Big Data

University degree: MSc. Inteligencia de Negocio y Big Data (B0.476) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

6 Name of the course: B0.487 TFM (Analista de datos)

University degree: MSc Inteligencia de Negocio y Big Data (B0.487) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

7 Name of the course: M2.858 Análisis de datos en entornos Big Data

University degree: MSc. Ciencia de Datos (M2.858) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

8 Name of the course: M2.878/882 TFM - Área 1 / 5

University degree: MSc. Ciencia de Datos (M2.878/M2.882) - Ongoing

Start date: 15/10/2020

End date: 01/01/2024

Entity: Universitat Oberta de Catalunya

Type of entity: University

9 Name of the course: Estructuras de dades

University degree: Grau d'Enginyeria Informàtica

Start date: 01/02/2021

End date: 01/06/2021

Entity: Universitat Rovira i Virgili

Type of entity: University



10 Name of the course: Fonaments de programació I

University degree: Grau d'Enginyeria Informàtica

Start date: 01/09/2020

Entity: Universitat Rovira i Virgili

End date: 01/02/2021

Type of entity: University

11 Name of the course: Anàlisi de dades amb BIG Data - CFCC

University degree: UOC-Consultor fc-Programas abiertos

Start date: 25/12/2019

End date: 26/06/2020

Entity: UOC Corporate

12 Name of the course: B0.475 Fundamentos de inteligencia de negocio

University degree: Máster de Inteligencia de Negocio y Big Data (B0.475)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

13 Name of the course: B0.476 Fundamentos de Big Data

University degree: Máster de Inteligencia de Negocio y Big Data (B0.476)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

14 Name of the course: B2.585 Tecnologías de Big data

University degree: Máster de Inteligencia de Negocio y Big Data (B2.585)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

15 Name of the course: B2.592 TFM Análisis de negocio

University degree: Máster de Inteligencia de Negocio y Big Data (B2.592)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

16 Name of the course: M2.858 Análisis de datos en entornos Big Data

University degree: Máster universitario de Ciencia de Datos (M2.858)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

17 Name of the course: M2.878 TFM - Área 1

University degree: Máster universitario de Ciencia de Datos (M2.878)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

18 Name of the course: M2.882 TFM - Área 5

University degree: Máster universitario de Ciencia de Datos (M2.882)

Start date: 15/02/2020

End date: 15/06/2020

Entity: Universitat Oberta de Catalunya

Type of entity: University

19 Name of the course: Estructures de dades

University degree: Grau d'Enginyeria Informàtica

Start date: 01/02/2020

End date: 01/06/2020

Entity: Universitat Rovira i Virgili

Type of entity: University

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|----|--|--|
| 20 | Name of the course: B0.475 Fundamentos de inteligencia de negocio
University degree: Máster de Inteligencia de Negocio y Big Data (B0.475)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/02/2020
Type of entity: University |
| 21 | Name of the course: Fonaments de programació I
University degree: Grau d'Enginyeria Informàtica
Start date: 01/09/2019
Entity: Universitat Rovira i Virgili | End date: 01/02/2020
Type of entity: University |
| 22 | Name of the course: B0.476 Fundamentos de Big Data
University degree: Máster de Inteligencia de Negocio y Big Data (B0.476)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 23 | Name of the course: M2.882 TFM - Àrea 5
University degree: Máster universitario de Ciencia de Datos (M2.882)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 24 | Name of the course: B2.585 Tecnologías de Big data
University degree: Máster de Inteligencia de Negocio y Big Data (B2.585)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 25 | Name of the course: B2.592 TFM Análisis de negocio
University degree: Máster de Inteligencia de Negocio y Big Data (B2.592)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 26 | Name of the course: M2.858 Análisis de datos en entornos Big Data
University degree: Máster universitario de Ciencia de Datos (M2.858)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 27 | Name of the course: M2.878 TFM - Àrea 1
University degree: Máster universitario de Ciencia de Datos (M2.878)
Start date: 15/09/2019
Entity: Universitat Oberta de Catalunya | End date: 15/01/2020
Type of entity: University |
| 28 | Name of the course: M2.969 TFM-Minería de datos y machine learning
University degree: Máster universitario de Ciencia de Datos (M2.969)
Start date: 15/02/2019
Entity: Universitat Oberta de Catalunya | End date: 15/06/2019
Type of entity: University |
| 29 | Name of the course: Sistemas Operativos
University degree: Enginyeria Telemàtica, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas
Start date: 2010
Entity: Universitat Rovira i Virgili | End date: 2011
Type of entity: University |

**30 Name of the course:** Sistemas Operativos

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2009

End date: 2010

Entity: Universitat Rovira i Virgili

Type of entity: University

31 Name of the course: Sistemas Operativos

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2008

End date: 2009

Entity: Universitat Rovira i Virgili

Type of entity: University

32 Name of the course: Programacion II

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2007

End date: 2008

Entity: Universitat Rovira i Virgili

Type of entity: University

33 Name of the course: Sistemas Operativos

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2007

End date: 2008

Entity: Universitat Rovira i Virgili

Type of entity: University

34 Name of the course: Programacion I

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2006

End date: 2007

Entity: Universitat Rovira i Virgili

Type of entity: University

35 Name of the course: Programacion II

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2006

End date: 2007

Entity: Universitat Rovira i Virgili

Type of entity: University

36 Name of the course: Sistemas operativos

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2006

End date: 2007

Entity: Universitat Rovira i Virgili

Type of entity: University

37 Name of the course: Sistemas operativos

University degree: Enginyeria Telemática, Ingeniería técnica en informática de gestión, Ingeniería técnica en informática de sistemas

Start date: 2005

End date: 2006

Entity: Universitat Rovira i Virgili

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Msc. Evaluación automatizada de infraestructuras de movilidad sostenible mediante visión por computadora
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Javier Jiménez Gil
Obtained qualification: (pending)
Date of reading: 23/01/2025

2 **Project title:** Msc. Obtención y Análisis basado en la teoría de grafos de la estructura del Fediverso de Mastodon
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: David Villoria Delgado
Obtained qualification: (pending)
Date of reading: 23/01/2025

3 **Project title:** Msc. Previsió de les Eleccions Catalanes Mitjançant Dades Espacials
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Guillem Pla Bertran
Obtained qualification: 9.2
Date of reading: 01/07/2024

4 **Project title:** Msc. Deep Learning aplicado a imágenes de insectos polinizadores
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Vanesa García Fernández
Obtained qualification: 9
Date of reading: 01/01/2024

5 **Project title:** Msc. Detección de polinizadores a partir de imágenes utilizando redes neuronales convolucionales
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Andrés Merino Toapanta
Obtained qualification: 9.5
Date of reading: 01/01/2024

6 **Project title:** Msc. Anàlisi d'una xarxa urbana de carrils bici: el cas de Helsinki
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Joan Manuel López Ruiz
Obtained qualification: 9.3
Date of reading: 15/06/2023

7 **Project title:** Msc. Hodge Decomposition Applied to Geometric Random Walks for Pedestrian Mobility
Entity: Universitat de Barcelona **Type of entity:** University
Student: Robert Benassai
Obtained qualification: 9.5
Date of reading: 15/06/2023

8 **Project title:** MSc. Análisis de estacionamiento regulado en red urbana
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: José María Cano Hernández
Obtained qualification: 9.1



Date of reading: 15/02/2023

9 Project title: MSc. Análisis y clasificación de modos de transporte sobre trazas GPS de OpenStreetMap

Entity: Universitat Oberta de Catalunya

Type of entity: University

Student: Juan Francisco Nieto Mendoza

Obtained qualification: 9.1

Date of reading: 15/02/2023

10 Project title: MSc. IA aplicada a la predicción de la valoración de empresas cotizadas en el mercado londinense

Entity: Universitat Oberta de Catalunya / Universitat Rovira i Virgili

Student: Héctor Borobia Aranda

Obtained qualification: 10

Date of reading: 15/09/2022

11 Project title: MSc. Análisis de los papeles de Panamá mediante la teoría de redes complejas

Entity: Universitat Oberta de Catalunya

Type of entity: University

Student: Edgar Rubén Pardo

Obtained qualification: 9.3

Date of reading: 24/01/2022

12 Project title: MSc. Detección de bots en redes sociales

Entity: Universitat Rovira i Virgili

Type of entity: University

Student: Pablo Higueras de la Iglesia

Date of reading: 01/09/2021

13 Project title: MSc. Centralidad de intermediación flexible sobre redes de transporte urbanas (Nota 10 - MH)

Entity: Universitat Oberta de Catalunya

Type of entity: University

Student: Martín González Soto

Date of reading: 01/02/2021

14 Project title: PhD. Structural and dynamical interdependencies in complex networks at macro- and mesoscale: nestedness, modularity, and in-block nestedness. (Nota 10 - Cum Laude)

Entity: Universitat Oberta de Catalunya

Type of entity: University

Student: María José Palazzi Nieves

Date of reading: 15/12/2020

15 Project title: MSc. Estudio de flujo en redes de transporte urbano

Entity: Universitat Rovira i Virgili

Type of entity: University

Student: Jenny Aguirre Coba

Date of reading: 14/07/2019

16 Project title: MSc. Implicaciones de la similitud estructural en la dinàmica de redes ecològicas

Entity: Universitat Rovira i Virgili

Type of entity: University

Student: Julia Martínez-Atienza Barthelemy

Date of reading: 14/07/2019

17 Project title: MSc. Nested communities in the Global Value Chain (Nota 9.7)

Entity: Universitat Oberta de Catalunya

Type of entity: University

Student: Gerard Masllorens

Date of reading: 14/07/2019



18 **Project title:** PhD. (Ongoing) Analysis and Redesign of the Urban Scene with Explainable Deep Learning
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Cristina Bustos

19 **Project title:** PhD. (Ongoing) Human systems ecology: social and urban insights
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Harry Rios Romero

20 **Project title:** PhD. (Ongoing) Urban networks on a human scale: from sidewalk networks to new measures of accessibility
Entity: Universitat Oberta de Catalunya **Type of entity:** University
Student: Daniel Rhoads

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** AGORAS: human complex system ecology in social and urban spaces
Name principal investigator (PI, Co-PI....): Javier Borge-Holthoefer; Albert Solé-Ribalta
Start-End date: 01/01/2022 - 31/12/2024
Total amount: 66.550 €

2 **Name of the project:** LIKE-BCN: social accessible, and walKabIE Barcelona (21S09383- 001)
Entity where project took place: FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA
Funding entity or bodies:
Obra Social Fundación la Caixa **Type of entity:** Foundation
Ajuntament de Barcelona **Type of entity:** Goovernment
Name of the programme: Pla Barcelona Ciència
Code according to the funding entity: 21S09383- 001
Start-End date: 10/12/2021 - 10/06/2023
Total amount: 149.567,92 €

3 **Name of the project:** HYBRID PATTERNS IN UNI- AND MULTI-LAYER COMPLEX NETWORKS: THEORY AND APPLICATIONS
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA
Name principal investigator (PI, Co-PI....): Javier Borge Holthoefer; Ivan Serrano
Nº of researchers: 3
Name of the programme: PROYECTOS I+D+i GENERACIÓN DE CONOCIMIENTO
Code according to the funding entity: PGC2018-096999-A-I00
Start-End date: 01/06/2019 - 31/05/2022
Total amount: 28.435 €

**4 Name of the project:** Towards an Ecological Approach of information Systems TEAMS**Entity where project took place:** Fondazione Cassa **Type of entity:** Foundation di Risparmio di Padova e Rovigo**City of entity:** Padova, Italy**Name principal investigator (PI, Co-PI....):** Samir Suweis**Nº of researchers:** 4**Start-End date:** 01/12/2018 - 31/10/2019**Total amount:** 30.000 €**5 Name of the project:** Espacio Persona (SPIP2017-02263)**Entity where project took place:** Universitat Oberta **Type of entity:** University de Catalunya**Nº of researchers:** 2**Funding entity or bodies:**Dirección General de Tráfico **Type of entity:** ---**City funding entity:** Madrid, Community of Madrid, Spain**Start-End date:** 15/11/2017 - 15/12/2018**Total amount:** 49.987,44 €**6 Name of the project:** Robot Human Task Cooperation in Urban Areas**Entity where project took place:** Universitat **Type of entity:** University Politècnica de Catalunya**City of entity:** Barcelona, Catalonia, Spain**Nº of researchers:** 10**Funding entity or bodies:**

Consejo Interinstitucional de Ciencia Y Tecnología (CICYT)

Start-End date: 2011 - 2013**Total amount:** 348.480 €**Applicant's contribution:** DPI 2010-17112**7 Name of the project:** Image Matching and Retrieval for Human Identification and Robot Positioning**Entity where project took place:** Universitat Rovira i **Type of entity:** University Virgili**City of entity:** Tarragona, Spain**Nº of researchers:** 4**Start-End date:** 2010 - 2012**Total amount:** 5.936 €**Applicant's contribution:** URV-2010AIRE/08**8 Name of the project:** Multimodal Interaction in Pattern Recognition and Computer Vision**Entity where project took place:** Universitat **Type of entity:** University Politècnica de Catalunya**City of entity:** Barcelona, Catalonia, Spain**Nº of researchers:** 150**Funding entity or bodies:**Consolider Ingenio 2010 **Type of entity:** State agency**City funding entity:** Spain**Start-End date:** 2007 - 2011**Total amount:** 4.500.000 €**Applicant's contribution:** Código proyecto: CSD2007-00018

**9 Name of the project:** K4CARE: Knowledge-based homecare e-Services for an ageing Europe**Entity where project took place:** Universitat Rovira i Virgili**City of entity:** Tarragona, Catalonia, Spain**Nº of researchers:** 49**Funding entity or bodies:**

Research Directorate General, European Commission

Type of entity: Public Research Body**Start-End date:** 2006 - 2008**Total amount:** 3.700.000 €**Applicant's contribution:** Código proyecto: IST-2004-026968**10 Name of the project:** humAn complex system ecoloGy in sOcial and uRbAn Spaces (AGORAS)**Entity where project took place:** FUNDACIÓ PER A LA UNIVERSITAT OBERTA DE CATALUNYA**Name principal investigator (PI, Co-PI....):** Javier Borge Holthoefer; Albert Solé Ribalta**Nº of researchers:** 7**Name of the programme:** PROYECTOS I+D+i GENERACIÓN DE CONOCIMIENTO**Code according to the funding entity:** PID2021-128966NB-I00**Start date:** 01/09/2022**Total amount:** 66.550 €**11 Name of the project:** Plexmath**Entity where project took place:** Universitat Rovira i Virgili**Name principal investigator (PI, Co-PI....):** 1; Alex Arenas Moreno; Yamir Moreno; Mason Porter; James Gleeson; Mark Barthélémy**Nº of researchers:** 22**Funding entity or bodies:**Research and Innovation funding 2014-2020 FP7 **Type of entity:** University Research Institute**Start date:** 04/02/2013**R&D non-competitive contracts, agreements or projects with public or private entities****1 Name of the project:** Monitorización automática de insectos en entornos controlados: prototipo de un sistema de visión por computadora para las fases evolutivas de la especie Hermetia illucens (PhoenixFood)**Funding entity or bodies:**

Ministerio de Industria, Comercio y Turismo del Gobierno de España

Start date: 23/12/2024**Duration:** 12 years**Total amount:** 30.000 €**2 Name of the project:** Avance en la Supervisión Ciclista: Prototipo de un Sistema de Visión por Computadora para la Evaluación Automatizada de Infraestructuras de Carriles Bici (LanePatrol)**Name principal investigator (PI, Co-PI....):** Albert Solé-Ribalta**Funding entity or bodies:**

Ministerio de Industria, Comercio y Turismo del Gobierno de España

Start date: 12/06/2024**Duration:** 12 years**Total amount:** 30.000 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Albert Solé-Ribalta; Javier Borge-Holthoefer; Robert Benassai-Dalmau. Exploring pedestrian permeability in urban sidewalk networks. *Chaos, Solitons & Fractals* (Perc. 97.5 - IF 5.3). 194 - 116114, 05/01/2025.
Type of production: Scientific paper
Total no. authors: 3
- 2 Clément Rames; Daniel Rhoads; Antoni Meseguer-Artola; Sergi Lozano; Javier Borge-Holthoefer; Albert Solé-Ribalta. Trends and drivers of pedestrian mobility in Barcelona: A fine-grained study across its commercial tissue. *Cities* (Perc. 94.2 - IF 6.0). 158, pp. 105655. Pergamon, 03/01/2025.
Type of production: Scientific paper **Format:** Journal
- 3 Cristina Carnerero; Clément Rames; Álvaro Criado; Javier Borge-Holthoefer; Albert Soret; Albert Solé-Ribalta. City-scale assessment of pedestrian exposure to air pollution: A case study in Barcelona. *Urban Climate* (Perc. 89.5 - IF 6.0). 58, pp. 102183. Elsevier, 01/11/2024.
Type of production: Scientific paper
- 4 Rubén Rodríguez-Casañ; Elisabet Carbó-Catalan; Albert Solé-Ribalta; Diana Roig-Sanz; Javier Borge-Holthoefer; Alessio Cardillo. Analysing inter-state communication dynamics and roles in the networks of the International Institute of Intellectual Cooperation. *Humanities and Social Sciences Communications* (Perc. 95.2 - IF 3.7). Palgrave, 24/10/2024.
Type of production: Scientific paper **Format:** Journal
- 5 Aniello Lampo; María J. Palazzi; Javier Borge-Holthoefer; Albert Solé-Ribalta. Structural dynamics of plant–pollinator mutualistic networks. *PNAS nexus* (IP - Pending). 3 - 6, Oxford Academic, 31/05/2024.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6 Daniel Rhoads; Clément Rames; Albert Solé-Ribalta; Marta González; Michael Szell; Javier Borge-Holthoefer. Sidewalk networks: Review and outlook. *Computers, Environment and Urban Systems* (Q1 - 6.5). 100, pp. 101936. 01/12/2023.
Type of production: Scientific paper
- 7 Daniel Rhoads; Albert Solé-Ribalta; Javier Borge-Holthoefer. The inclusive 15-minute city: Walkability analysis with sidewalk networks. *Computers, Environment and Urban Systems* (Q1 - 6.5). 100, pp. 101936. 01/03/2023.
Type of production: Scientific paper
- 8 Jordi Casas-Roma; Eloy Martinez-Heras; Albert Solé-Ribalta; Elisabeth Solana; Elisabet Lopez-Soley; Francesc Vivó; Marcos Diaz-Hurtado; Salut Alba-Arbalat; Maria Sepulveda; Yolanda Blanco; Albert Saiz; Javier Borge-Holthoefer; Sara Llufriu; Ferran Prados. Applying multilayer analysis to morphological, structural, and functional brain networks to identify relevant dysfunction patterns. *Network Neuroscience* (Q2 - 5.0). 6 - 3, pp. 916 - 933. 01/07/2022.
Type of production: Scientific paper



- 21** Albert Sole-Ribalta; Claudio Tessone; Manuel Mariani; Javier Borge-Holthoefer. Revealing In-Block Nestedness: detection and benchmarking. *Physical Review E* (Q1-2.3). 97 - 6, pp. 062302. American Physical Society, 2018.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 22** Alex Arenas; Albert Solé-Ribalta; Sergio Gómez. La física de la congestión de tráfico. *Revista Española de Física*. 31 - 2, 15/06/2017. ISSN 0213-862X

Type of production: Scientific paper

Format: Journal

- 23** Albert Solé-Ribalta; Sergio Gómez; Alex Arenas. Decongestion of urban areas with hotspot pricing. *Networks and Spatial Economics* (Q1-3.25). 18 - 1, pp. 33 - 50. 2017.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 24** Albert Solé-Ribalta; Sergio Gómez; Alex Arenas. A model to identify urban traffic congestion hotspots in complex networks. *Royal Society Open Science* (Q2-2.2). 3 (10) - 160098, 10/10/2016.

Type of production: Scientific paper

Format: Journal

- 25** Albert Solé-Ribalta; Manlio De Domenico; Sergio Gómez; Alex Arenas. Random walk centrality in interconnected multilayer networks. *Physica D: Nonlinear Phenomena* (Q1-1.51). 323-234, pp. 73 - 79. 01/06/2016.

Type of production: Scientific paper

Format: Journal

- 26** Albert Solé-Ribalta; Sergio Gómez; Alex Arenas. Congestion Induced by the Structure of Multiplex Networks. *Physical Review Letters* (Q1-7.64). 116(10) - 108701, 10/03/2016.

Type of production: Scientific paper

Format: Journal

- 27** Albert Solé Ribalta; Clara Granell Martorell; Alexandre Arenas Moreno; Sergio Gómez. Information transfer in community structured multiplex networks. *Frontiers in Physics* (Q1-3.6). 18/08/2015.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

Relevant results: <http://dx.doi.org/10.3389/fphy.2015.00061>

- 28** Emanuele Cozzo; Mikko Kivelä; Manlio De Domenico; Albert Solé-Ribalta; Alex Arenas; Sergio Gómez; Mason Porter; Yamir Moreno. Structure of triadic relations in multiplex networks. *New Journal of Physics* (Q1-3.57). 17 (7) - 073029, 31/07/2015.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 29** Albert Solé-Ribalta; Manlio De Domenico; Alex Arenas; Sergio Gómez. Random walk centrality in interconnected multilayer networks. *arXiv*. 23/06/2015. Available on-line at: <<http://arxiv.org/abs/1506.07165>>.

Type of production: Scientific paper

Format: Journal

- 30** Manlio De Domenico; Albert Solé-Ribalta; Elisa Omodei; Sergio Gómez; Alex Arenas. Ranking in interconnected multilayer networks reveals versatile nodes. *Nature communications* (Q1-11.47). 6868, Nature Publishing Group, 23/04/2015.

Type of production: Scientific paper

Format: Journal

- 31** Emanuele Cozzo; Mikko Kivelä; Manlio De Domenico; Albert Solé-Ribalta; Alex Arenas; Sergio Gómez; Mason APorter; Yamir Moreno. Structure of triadic relations in multiplex networks. *New Journal of Physics* (Q1-3.56). 17 - 7, pp. 073029 - 073029. 2015. Available on-line at: <<http://stacks.iop.org/1367-2630/17/i=7/a=073029>>.

Type of production: Scientific paper

Format: Journal



- 32** Manlio De Domenico; Albert Solé-Ribalta; Sergio Gómez; Alex Arenas. Navigability of interconnected networks under random failures. *Proceedings of the National Academy of Sciences* (Q1-9.67). pp. 201318469 - 201318469. National Acad Sciences, 2014.
Type of production: Scientific paper **Format:** Journal
- 33** Albert SoléRibalta; David Sánchez; Montserrat Batet; Francesc Serratosa. Towards the estimation of feature-based semantic similarity using multiple ontologies. *KNOWLEDGE-BASED SYSTEMS* (Q1-2.94). 55, pp. 101 - 113. 2014. Available on-line at: <<http://dx.doi.org/10.1016/j.knosys.2013.10.015>>. **Type of production:** Scientific paper **Format:** Journal
- 34** Manlio De Domenico; Albert Solé-Ribalta; Elisa Omodei; Sergio Gómez; Alex Arenas. Centrality in Interconnected Multilayer Networks. *CoRR*. abs/1311.2906, 2013. Available on-line at: <<http://arxiv.org/abs/1311.2906>>. **Type of production:** Scientific paper **Format:** Journal
- 35** Emanuele Cozzo; Mikko Kivelä; Manlio De Domenico; Albert Solé-Ribalta; Alex Arenas; Sergio Gómez; Mason A. Porter; Yamir Moreno. Clustering Coefficients in Multiplex Networks. *CoRR*. abs/1307.6780, 2013. Available on-line at: <<http://arxiv.org/abs/1307.6780>>. **Type of production:** Scientific paper **Format:** Journal
- 36** Francesc Serratosa; Xavier Cortés; Albert SoléRibalta. Component retrieval based on a database of graphs for Hand-Written Electronic-Scheme Digitalisation. *EXPERT SYSTEMS WITH APPLICATIONS* (Q1-2.2). 40 - 7, pp. 2493 - 2502. 2013. Available on-line at: <<http://dx.doi.org/10.1016/j.eswa.2012.10.071>>. **Type of production:** Scientific paper **Format:** Journal
- 37** Albert Solé-Ribalta; Francesc Serratosa. Graduated Assignment Algorithm for Multiple Graph Matching Based on a Common Labeling. *International Journal of Pattern Recognition and Artificial Intelligence* (Q4-0.67). 27 - 1, 2013. Available on-line at: <<http://dx.doi.org/10.1142/S0218001413500018>>. **Type of production:** Scientific paper **Format:** Journal
- 38** Manlio De Domenico; Albert Solé-Ribalta; Emanuele Cozzo; Mikko Kivelä; Yamir Moreno; Mason A Porter; Sergio Gómez; Alex Arenas. Mathematical formulation of multilayer networks. *Physical Review X* (Q1-9.0). 3 - 4, pp. 041022 - 041022. American Physical Society, 2013. **Type of production:** Scientific paper **Format:** Journal
- 39** Albert Sole-Ribalta; Manlio De Domenico; Nikos E Kouvaris; Albert Diaz-Guilera; Sergio Gomez; Alex Arenas. Spectral properties of the Laplacian of multiplex networks. *Physical Review E* (Q1-2.3). 88 - 3, pp. 032807 - 032807. American Physical Society, 2013. **Type of production:** Scientific paper **Format:** Journal
- 40** David Sánchez; Albert Solé-Ribalta; Montserrat Batet; Francesc Serratosa. Enabling semantic similarity estimation across multiple ontologies: An evaluation in the biomedical domain. *Journal of Biomedical Informatics* (Q1-2.1). 45 - 1, pp. 141 - 155. 2012. Available on-line at: <<http://dx.doi.org/10.1016/j.jbi.2011.10.005>>. **Type of production:** Scientific paper **Format:** Journal
- 41** Albert Solé-Ribalta; Francesc Serratosa; Alberto Sanfeliu. On the Graph Edit Distance Cost: Properties and Applications. *International Journal of Pattern Recognition and Artificial Intelligence* (Q4-0.67). 26 - 5, 2012. Available on-line at: <<http://dx.doi.org/10.1142/S021800141260004X>>. **Type of production:** Scientific paper **Format:** Journal
- 42** Albert Solé-Ribalta; Francesc Serratosa. Models and algorithms for computing the common labelling of a set of attributed graphs. *Computer Vision and Image Understanding* (Q2-1.5). 115 - 7, pp. 929 - 945. 2011. Available on-line at: <<http://dx.doi.org/10.1016/j.cviu.2010.12.007>>.



Type of production: Scientific paper

Format: Journal

- 43** Ling Wu; Miguel Àngel García García; Domenec Puig Valls; Albert Solé Ribalta. Voronoi-based space partitioning for coordinated multi-robot exploration. *Journal of Physical Agents*. 1 - 1, Red de Agentes Físicos, 2007.

Type of production: Scientific paper

Format: Journal

- 44** Daniel Rhoads; Javier Borge-Holthoefer; Albert Solé-Ribalta. Guide to Mobile Data Analytics in Refugee Scenarios. Measuring and mitigating behavioral segregation using Call Detail Records. Springer, 01/05/2019.

Type of production: Book chapter

Format: Book

- 45** Sergio Gómez; Manlio De Domenico; Albert Solé-Ribalta; Elisa Omodei; Alex Arenas. Multilayer networks. Multiplex and Multilevel Networks. pp. 1 - 30. New York: Oxford University Press, 2018.

Type of production: Book chapter

- 46** David Isern; David Sánchez; Albert Solé-Ribalta; Antonio Moreno; László Varga. The K4Care Platform Design and Implementation. Ubiquitous health and medical informatics: the Ubiquity 2.0 trend and beyond. pp. 370 - 389. Medical Information Science Reference, 2010.

Type of production: Book chapter

Format: Journal

Works submitted to national or international conferences

- 1** **Title of the work:** On the use of Vision-Language models for Visual Sentiment Analysis: a study on CLIP

Name of the conference: 2023 11th International Conference on Affective Computing and Intelligent Interaction (ACII)

City of event: Cambridge, MA,

Date of event: 10/09/2023

Organising entity: MIT Media Lab

Cristina Bustos; Carles Civit; Brian Du; Albert Solé-Ribalta; Agata Lapedriza.

- 2** **Title of the work:** The predictive value of the multilayer graph properties on clinical status in patients with multiple sclerosis

Name of the conference: 38th Congress of the European Committee for Treatment and Research in Multiple Sclerosis

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Amsterdam / The netherlands,

Date of event: 26/10/2022

End date: 28/10/2022

Organising entity: The European Committee for Treatment and Research in Multiple Sclerosis

Elisabeth Solana; Jordi Casas-Roma; Eloy Martínez-Heras; Albert Sole-Ribalta; Elisabet Lopez-Soley; Francesc Vivó; Marcos Diaz-Hurtado; Salut Alba-Arbalat; Maria Sepulveda; Yolanda Blanco; Albert Saiz; Javier Borge-Holthoefer; Sara Llufriu; Ferran Prados.

- 3** **Title of the work:** Hybrid structural arrangements mediate stability and feasibility in mutualistic networks

Name of the conference: ECNET2021: V Symposium on ecological networks

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Palma de mallorca / IFISC,

Date of event: 10/11/2021

End date: 12/11/2021

Organising entity: CSIC / IFISC / UIB



Aniello Lampo; María J. Palazzi; Javier Borge-Holthoefer; Albert Solé-Ribalta.

4 Title of the work: Applying multilayer analysis into morphological, structural and functional brain networks in multiple sclerosis

Name of the conference: 37th Congress of the European Committee for Treatment and Research in Multiple Sclerosis

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Online,

Date of event: 13/10/2021

End date: 15/10/2021

Organising entity: The European Committee for Treatment and Research in Multiple Sclerosis

Jordi Casas-Roma; Eloy Martinez-Heras; Albert Sole-Ribalta; Elisabeth Solana; Elisabet Lopez-Soley; Salut Alba-Arbalat; Maria Sepulveda; Yolanda Blanco; Albert Saiz; Javier Borge-Holthoefer; Sara Llufriu; Ferran Prados.

5 Title of the work: Algorithms Air Quality Estimation: A Comparative Study of Stochastic and Heuristic Predictive Models

Name of the conference: Hybrid Artificial Intelligent Systems: 16th International Conference, HAIS 2021

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Bilbao, Spain,

Date of event: 22/09/2021

End date: 24/09/2021

Organising entity: University of Deusto

Nadia N Sánchez-Pozo; Sergi Trilles-Oliver; Albert Solé-Ribalta; Leandro L Lorente-Leyva; Dagoberto Mayorca-Torres; Diego H Peluffo-Ordóñez.

6 Title of the work: Predicting Driver Self-Reported Stress by Analyzing the Road Scene

Name of the conference: 2021 9th International Conference on Affective Computing and Intelligent Interaction (ACII)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Online,

Date of event: 01/09/2021

End date: 05/09/2021

Organising entity: IEEE

Cristina Bustos; Neska Elhaouij; Albert Solé-Ribalta; Javier Borge-Holthoefer; Agata Lapedriza; Rosalind Picard.

7 Title of the work: Online division of labour: emergent structures in Open Source Software

Name of the conference: Networks'21

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Online,

Date of event: 05/07/2021

End date: 10/07/2021

Organising entity: IU Network Science Institute

María Palazzi; Jordi Cabot; Javier Cánovas-Izquierdo; Albert Solé-Ribalta; Javier Borge-Holthoefer.



- 8** **Title of the work:** Advances in modelling traffic in cities and applications
Name of the conference: Complex networks in the life sciences / EBSA2019 Satellite meeting
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Alcalá de Henares, Spain
Date of event: 25/07/2019
End date: 25/07/2019
Organising entity: Spanish National Centre for Biotechnology
Albert Solé-Ribalta.

- 9** **Title of the work:** Congestion induced by the multiplex structure of complex networks
Name of the conference: Conference on Complex Systems
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Cancun, Mexico
Date of event: 18/09/2017
End date: 22/09/2017
Organising entity: Complex System Society
Albert Solé-Ribalta; Sergio Gómez; Alex Arenas.

- 10** **Title of the work:** Congestion induced by the structure of multiplex networks
Name of the conference: NetSci 2017
Type of participation: Participatory - oral communication
City of event: Indianapolis, United States of America
Date of event: 19/06/2017
End date: 23/06/2017
Organising entity: Indiana University Network Science Institute
Albert Solé-Ribalta; Sergio Gómez; Alex Arenas.

- 11** **Title of the work:** Integration-segregation dynamics in the city: structural imbalances in transportation infrastructure
Name of the conference: NetSci 2017
Type of participation: Participatory - oral communication
City of event: Indianapolis, United States of America
Date of event: 19/06/2017
End date: 23/06/2017
Organising entity: Indiana University Network Science Institute
Tahar Zanouda; Albert Solé-Ribalta; Somwrita Sarkar; Sanjay Chawla; Javier Borge-Holthoefer.

- 12** **Title of the work:** Re-thinking nested and modular networks in ecological and socio-technical complex systems
Name of the conference: NetSci 2017
Type of participation: Participatory - oral communication
City of event: Indianapolis, United States of America
Date of event: 19/06/2017
End date: 23/06/2017
Organising entity: Indiana University Network Science Institute
Albert Solé-Ribalta; Manuel Mariani; Claudio Tessone; Javier Borge-Holthoefer.



13 Title of the work: NestModularity measure for the join analysis of nested and modular networks

Name of the conference: Crossroads on Complex Systems

Type of participation: 'Participatory - poster

City of event: Palma de Mallorca, Spain

Date of event: 05/06/2017

End date: 08/06/2017

Organising entity: Institute for Cross-Disciplinary Physics and Complex Systems

Albert Solé-Ribalta; Manuel Mariani; Claudio Tessone; Javier Borge-Holthoefer.

14 Title of the work: Congestion phenomena in urban transportation networks

Name of the conference: IV Jornada de Complexitat

Type of participation: Participatory - invited/keynote talk

City of event: Castelldefels, Spain

Date of event: 24/05/2017

Organising entity: Universitat Oberta de Catalunya **Type of entity:** University

City organizing entity: Complexitat.cat,

15 Title of the work: Congestion induced by the structure of multiplex networks.

Name of the conference: 2016 Conference on Complex Systems

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Amsterdam, Holland

Date of event: 19/10/2016

End date: 22/10/2016

Organising entity: Complex System Society

Albert Solé Ribalta; Sergio Gómez; Arenas Alex.

16 Title of the work: Congestion induced by the structure of multiplex networks.

Name of the conference: The 2nd Annual Workshop on Complex Sociotechnical Systems

City of event: Valencia, Spain

Date of event: 08/06/2016

End date: 10/06/2016

Organising entity: Comsotec

Albert Solé Ribalta; Sergio Gómez; Arenas Alex.

17 Title of the work: Microscopic Modelling of Congestion in Transportation Networks

Name of the conference: COMSOTEC'15

City of event: Santander,

Date of event: 09/09/2015

End date: 11/09/2015

Organising entity: Instituto de Física de Cantabria **Type of entity:** Public Research Body (IFCA)

Albert Solé Ribalta; Sergio Gómez; Alexandre Arenas Moreno.

18 Title of the work: Microscopic modelling of congestion in transportation networks

Name of the conference: Granada Seminar

Type of participation: Participatory - Plenary session

City of event: Andalusia, Spain

Date of event: 15/06/2015

End date: 19/06/2015

Organising entity: Universidad de Granada

Type of entity: University



Albert Solé-Ribalta; Sergio Gómez; Alex Arenas.

19 Title of the work: Ranking in Multilayer Networks Unveils Versatility

Name of the conference: International Conference on Computational Social Science

Type of participation: 'Participatory - poster

City of event: Helsinki, Finland

Date of event: 08/06/2015

End date: 11/06/2015

Organising entity: Aalto University: School of Science

Manlio De Domenico; Albert Solé-Ribalta; Elisa Omodei; Sergio Gómez; Alex Arenas.

20 Title of the work: Congestion in transportation networks at different scales

Name of the conference: NetSci Satellite ISODS II

Type of participation: Participatory - invited/keynote talk

City of event: Zaragoza, Aragon, Spain

Date of event: 01/06/2015

Organising entity: Instituto Universitario de Investigación de Biocomputación y Física de Sistemas Complejos

Type of entity: University Research Institute

21 Title of the work: Optimal multiplex topologies for search and congestion

Name of the conference: Netsci 2015

Type of participation: 'Participatory - poster

City of event: Zaragoza, Aragon, Spain

Date of event: 01/06/2015

End date: 05/06/2015

Organising entity: Instituto Universitario de Investigación de Biocomputación y Física de Sistemas Complejos

Type of entity: University Research Institute

Albert Solé-Ribalta; Sergio Gómez; Alex Arenas.

22 Title of the work: Navigability of Interconnected Networks under Random Failures

Name of the conference: European Conference of Complex Systems 2014

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Lucca, Italy

Date of event: 22/09/2014

End date: 26/09/2014

Organising entity: Compex System Society

Albert Sole-Ribalta; Manlio De Domenico; Sergio Gomez; Alex Arenas.

23 Title of the work: Optimal multiplex topologies for search and congestion

Name of the conference: European Conference on Complex Systems 14

Type of event: Conference

Type of participation: Participatory - oral communication

Date of event: 22/09/2014

End date: 26/09/2014

Organising entity: Complex System Society

Albert Solé-Ribalta; Pau Erola; Sergio Gómez; Alex Arenas. pp. 149 - 155. 2014. Available on-line at: <<http://doi.acm.org/10.1145/2615569.2615687>>.



24 Title of the work: Centrality rankings in multiplex networks

Name of the conference: Web Science Conference 2014

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Bloomington, United States of America

Date of event: 23/06/2014

End date: 26/06/2014

Organising entity: Association for Computing Machinery

Publication in conference proceedings: Yes **With external admission assessment committee:**

Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Manlio De Domenico; Sergio Gómez; Alex Arenas. "Web Science Conference, WebSci '14, Bloomington, IN, USA, June 23-26, 2014". En: Centrality rankings in multiplex networks. pp. 149 - 155. 23/06/2014. Available on-line at: <<http://doi.acm.org/10.1145/2615569.2615687>>. ISBN 978-1-4503-2622-3

25 Title of the work: Versatile nodes in complex interconnected networks

Name of the conference: NetSci 2014

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Berkeley, United States of America

Date of event: 02/06/2014

End date: 06/06/2014

Organising entity: University of California at Davis **Type of entity:** University

Albert Sole-Ribalta; Manlio De Domenico; Elisa Omodei; Sergio Gomez; Alex Arenas.

26 Title of the work: On the Diffusion Dynamics over Generic Multiplex Networks

Name of the conference: European Conference on Complex Systems 2013

Type of event: Conference

Type of participation: Participatory - oral communication

Date of event: 16/09/2013

End date: 20/09/2013

Organising entity: Complex System Society

Albert Sole-Ribalta; Manlio De Domenico; Sergio Gómez; Alex Arenas.

27 Title of the work: Super-Diusive Random Walkers in Multiplex Networks

Name of the conference: European Conference on Complex Systems 13

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Barcelona, Catalonia, Spain

Date of event: 16/09/2013

End date: 20/09/2013

Organising entity: Complex System Society

Manlio De Domenico; Albert Sole-Ribalta; Sergio Gomez; Alex Arenas.

28 Title of the work: Computing the graph edit distance using dominant sets

Name of the conference: 21st International Conference on Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tsukuba, Japan

Date of event: 11/11/2012



End date: 15/11/2012

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Nicola Rebagliati; Albert Solé-Ribalta; Marcello Pelillo; Francesc Serratosa. "Proceedings of the 21st International Conference on Pattern Recognition, {ICPR} 2012, Tsukuba, Japan, November 11-15, 2012". pp. 1080 - 1083. 11/11/2012. Available on-line at: <http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6460323>. ISBN 978-1-4673-2216-4

29 Title of the work: Interactive graph matching by means of imposing the pairwise costs

Name of the conference: 21st International Conference on Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tsukuba, Japan

Date of event: 11/11/2012

End date: 15/11/2012

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Francesc Serratosa; Xavier Cortés; Albert Solé-Ribalta. "Proceedings of the 21st International Conference on Pattern Recognition, {ICPR} 2012, Tsukuba, Japan, November 11-15, 2012". pp. 1298 - 1301. 11/11/2012. Available on-line at: <http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6460377>. ISBN 978-1-4673-2216-4

30 Title of the work: A Comparison between Structural and Embedding Methods for Graph Classification

Name of the conference: Structural, Syntactic, and Statistical Pattern Recognition

Type of event: Conference

City of event: Hiroshima, Japan

Date of event: 07/11/2012

End date: 09/11/2012

Organising entity: International Association of Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Xavier Cortés; Francesc Serratosa. "Structural, Syntactic, and Statistical Pattern Recognition - Joint {IAPR} International Workshop, SSPR{&}SPR 2012, Hiroshima, Japan, November 7-9, 2012. Proceedings". 7626, pp. 234 - 242. 07/11/2012. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-34166-3_26>. ISBN 978-3-642-34165-6

31 Title of the work: Active Graph Matching Based on Pairwise Probabilities between Nodes

Name of the conference: Structural, Syntactic, and Statistical Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Hiroshima, Japan

Date of event: 07/11/2012

End date: 09/11/2012

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

Type of contribution: Scientific paper



Xavier Cortés; Francesc Serratosa; Albert Solé-Ribalta. "Structural, Syntactic, and Statistical Pattern Recognition - Joint {IAPR} International Workshop, SSPR&SPR 2012, Hiroshima, Japan, November 7-9, 2012. Proceedings". 7626, pp. 98 - 106. 2012. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-34166-3_11>. ISBN 978-3-642-34165-6

- 32** **Title of the work:** Graph Database Retrieval Based on Metric-Trees
Name of the conference: Structural, Syntactic, and Statistical Pattern Recognition
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Hiroshima, Japan
Date of event: 07/11/2012
End date: 09/11/2012
Organising entity: International Association for Pattern Recognition
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Francesc Serratosa; Xavier Cortés; Albert Solé-Ribalta. "Structural, Syntactic, and Statistical Pattern Recognition - Joint {IAPR} International Workshop, SSPR&SPR 2012, Hiroshima, Japan, November 7-9, 2012. Proceedings". pp. 437 - 447. 07/11/2012. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-34166-3_48>. ISBN 978-3-642-34165-6
- 33** **Title of the work:** On the Relation between the Common Labelling and the Median Graph
Name of the conference: Structural, Syntactic, and Statistical Pattern Recognition
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Hiroshima, Japan
Date of event: 07/11/2012
End date: 09/11/2012
Organising entity: International Association for Pattern Recognition
Publication in conference proceedings: Yes
Type of contribution: Scientific paper
Nicola Rebagliati; Albert Solé-Ribalta; Marcello Pelillo; Francesc Serratosa. "Structural, Syntactic, and Statistical Pattern Recognition - Joint {IAPR} International Workshop, SSPR&SPR 2012, Hiroshima, Japan, November 7-9, 2012. Proceedings". pp. 107 - 115. 2012. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-34166-3_12>. ISBN 978-3-642-34165-6
- 34** **Title of the work:** Group-wise Sparse Correspondences between Images based on a Common Labelling Approach
Name of the conference: International Conference on Computer Vision Theory and Applications
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Roma, Italy
Date of event: 24/02/2012
End date: 26/02/2012
Organising entity: Institute for Systems and Technologies of Information, Control and Communication
Publication in conference proceedings: Yes **With external admission assessment committee:** Yes
Type of contribution: Scientific paper
Albert Solé-Ribalta; Gerard Sanromà; Francesc Serratosa; René Alquézar. "{VISAPP} 2012 - Proceedings of the International Conference on Computer Vision Theory and Applications, Volume 1, Rome, Italy, 24-26 February, 2012.". pp. 269 - 278. 24/02/2012. ISBN 978-989-8565-03-7



35 Title of the work: K-nn Queries in Graph Databases Using M-Trees

Name of the conference: 14th International Conference Computer Analysis of Images and Patterns

Type of event: Conference

City of event: Sevilla, Spain

Date of event: 29/08/2011

End date: 31/08/2011

Organising entity: International Association for Pattern Recognition

Type of contribution: Scientific paper

Francesc Serratosa; Albert Solé-Ribalta; Xavier Cortés. "Computer Analysis of Images and Patterns - 14th International Conference, {CAIP} 2011, Seville, Spain, August 29-31, 2011, Proceedings, Part {I}" . 6854, pp. 202 - 210. 29/08/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-23672-3_25>. ISBN 978-3-642-23671-6

36 Title of the work: A Probabilistic Framework to Obtain a Common Labelling between Attributed Graphs

Name of the conference: 5th Iberian Conference of Pattern Recognition and Image Analysis

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Las Palmas de Gran Canaria, Spain

Date of event: 08/06/2011

End date: 10/06/2011

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Francesc Serratosa. "Pattern Recognition and Image Analysis - 5th Iberian Conference, IbPRIA 2011, Las Palmas de Gran Canaria, Spain, June 8-10, 2011. Proceedings". 6669, pp. 516 - 523. 08/06/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-21257-4_64>. ISBN 978-3-642-21256-7

37 Title of the work: Graph Matching on a Low-Cost and Parallel Architecture

Name of the conference: 5th Iberian Conference Pattern Recognition and Image Analysis

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Las Palmas de Gran Canaria, Spain

Date of event: 08/06/2011

End date: 10/06/2011

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

David Ródenas; Francesc Serratosa; Albert Solé-Ribalta. "Pattern Recognition and Image Analysis - 5th Iberian Conference, IbPRIA 2011, Las Palmas de Gran Canaria, Spain, June 8-10, 2011. Proceedings". 6669, pp. 508 - 515. 08/06/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-21257-4_63>. ISBN 978-3-642-21256-7

38 Title of the work: Automatic Learning of Edit Costs Based on Interactive and Adaptive Graph Recognition

Name of the conference: 8th Graph-Based Representations in Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Munster, Germany

Date of event: 18/04/2011

End date: 20/04/2011



Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:

Yes

Type of contribution: Scientific paper

Francesc Serratosa; Albert Solé-Ribalta; Xavier Cortés. "Graph-Based Representations in Pattern Recognition - 8th {IAPR-TC-15} International Workshop, GbRPR 2011, Münster, Germany, May 18-20, 2011. Proceedings". 6658, pp. 152 - 163. 18/04/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-20844-7_16>. ISBN 978-3-642-20843-0

39 Title of the work: Exploration of the Labelling Space Given Graph Edit Distance Costs

Name of the conference: 8th Graph-Based Representations in Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Munster, Germany

Date of event: 18/04/2011

End date: 20/04/2011

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:

Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Francesc Serratosa. "Graph-Based Representations in Pattern Recognition - 8th {IAPR-TC-15} International Workshop, GbRPR 2011, Münster, Germany, May 18-20, 2011. Proceedings". 6658, pp. 164 - 174. 18/04/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-20844-7_17>. ISBN 978-3-642-20843-0

40 Title of the work: Parallel Graduated Assignment Algorithm for Multiple Graph Matching Based on a Common Labelling

Name of the conference: 8th Graph-Based Representations in Pattern Recognition

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Munster, Germany

Date of event: 18/04/2011

End date: 20/04/2011

Organising entity: International Association for Pattern Recognition

With external admission assessment committee: Yes

Type of contribution: Scientific paper

David Ródenas; Francesc Serratosa; Albert Solé-Ribalta. "Graph-Based Representations in Pattern Recognition - 8th {IAPR-TC-15} International Workshop, GbRPR 2011, Münster, Germany, May 18-20, 2011. Proceedings". 6658, pp. 132 - 141. 18/04/2011. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-20844-7_14>. ISBN 978-3-642-20843-0

41 Title of the work: Graph Indexing and Retrieval Based on Median Graphs

Name of the conference: 2nd Mexican Conference on Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Puebla, Mexico

Date of event: 27/09/2010

End date: 29/09/2010

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes

With external admission assessment committee:

Yes

Type of contribution: Scientific paper



Francesc Serratosa; Albert Solé-Ribalta; Enric Vidiella. "Advances in Pattern Recognition - Second Mexican Conference on Pattern Recognition, {MPCR} 2010, Puebla, Mexico, September 27-29, 2010. Proceedings". 6256, pp. 311 - 321. 27/09/2010. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-15992-3_33>. ISBN 978-3-642-15991-6

- 42** **Title of the work:** Graduated Assignment Algorithm for Finding the Common Labelling of a Set of Graphs
Name of the conference: 13th Structural, Syntactic, and Statistical Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Cesme, Turkey

Date of event: 18/08/2010

End date: 20/08/2010

Organising entity: International Association for Pattern Recognition

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Francesc Serratosa. "Structural, Syntactic, and Statistical Pattern Recognition, Joint {IAPR} International Workshop, SSPR{&}SPR 2010, Cesme, Izmir, Turkey, August 18-20, 2010. Proceedings". 6218, pp. 180 - 190. 18/08/2010. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-14980-1_17>. ISBN 978-3-642-14979-5

- 43** **Title of the work:** On the Computation of the Common Labelling of a Set of Attributed Graphs
Name of the conference: 14th Iberoamerican Conference on Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Guadalajara, Mexico

Date of event: 15/11/2009

End date: 18/11/2009

Organising entity: International Association for Pattern Recognition

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Francesc Serratosa. "Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications, 14th Iberoamerican Conference on Pattern Recognition, {CIARP} 2009, Guadalajara, Jalisco, Mexico, November 15-18, 2009. Proceedings". 5856, pp. 137 - 144. 15/11/2009. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-10268-4_16>. ISBN 978-3-642-10267-7

- 44** **Title of the work:** A Structural and Semantic Probabilistic Model for Matching and Representing a Set of Graphs
Name of the conference: 7th Graph-Based Representations in Pattern Recognition

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Venecia, Italy

Date of event: 26/04/2009

End date: 28/04/2009

Organising entity: International Association for Pattern Recognition.

Publication in conference proceedings: Yes **With external admission assessment committee:** Yes

Type of contribution: Scientific paper

Albert Solé-Ribalta; Francesc Serratosa. "Graph-Based Representations in Pattern Recognition, 7th {IAPR-TC-15} International Workshop, GbRPR 2009, Venice, Italy, May 26-28, 2009. Proceedings". 5534, pp. 164 - 173. 26/04/2009. Available on-line at: <http://dx.doi.org/10.1007/978-3-642-02124-4_17>. ISBN 978-3-642-02123-7



Works submitted to national or international seminars, workshops and/or courses

Title of the work: Versatile nodes in multilayer networks

Name of the event: III Jornada complexitat.cat

City of event: Barcelona, Spain

Date of event: 19/06/2014

End date: 19/06/2014

Organising entity: complexitat.cat

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 Committee title: Avaluador Convocatòries UOC

Affiliation entity: Universitat Oberta de Catalunya **Type of entity:** University

Start date: 01/06/2020

2 Committee title: Scientific committee: CompleNet (complenet.weebly.com/),

Affiliation entity: Universitat Oberta de Catalunya **Type of entity:** University

Start date: 01/01/2019

3 Committee title: Scientific Committee: Complex Networks (complexnetworks.org)

Affiliation entity: Universitat Oberta de Catalunya **Type of entity:** University

Start date: 2019

4 Committee title: Scientific Committee: NetSciX2019

Affiliation entity: Universitat Oberta de Catalunya **Type of entity:** University

Start date: 2019

Organization of R&D activities

1 Title of the activity: Comsotec 21 Tarragona

Type of activity: Organization

City convening entity: Tarragona, Spain

Start-End date: 17/02/2022 - 18/02/2022

2 Title of the activity: Organizer CCS'21 - SATELLITE WORKSHOP COMPUTATIONAL SOCIAL SCIENCE

Type of activity: Organization

Start-End date: 25/10/2021 - 29/10/2021

3 Title of the activity: Organizer - X Jornada de la Complexitat: Interdisciplinary Research on Complexity

Start date: 03/2023

4 Title of the activity: Data Science in/for Barcelona 2.0 (<https://sites.google.com/view/ds4bcn-2023>)

Type of activity: Workshp

Convening entity: FUNDACIÓ PER A LA UNIVERSITAT OBERTA DE CATALUNYA



City convening entity: Barcelona

Start date: 13/12/2022

5 Title of the activity: Data Science in/for Barcelona (<https://sites.google.com/view/ds4bcn>)

Type of activity: Workshop

Convening entity: FUNDACIÓ PER A LA UNIVERSITAT OBERTA DE CATALUNYA

City convening entity: Barcelona

Start date: 30/11/2022

6 Title of the activity: Organizer CCS'20 - SATELLITE WORKSHOP COMPUTATIONAL SOCIAL SCIENCE

Start date: 09/12/2020

7 Title of the activity: Organizer - VI Jornada de la Complexitat: Interdisciplinary Research on Complexity

Start date: 24/05/2017

8 Title of the activity: Data Science in/for Barcelona

Type of activity: Workshop

City of event: Barcelona,

Nº assistants: 69

Other achievements

Stays in public or private R&D centres

1 Entity: Universität Zürich

Faculty, institute or centre: Network Science Group (IBW)

Start-End date: 01/09/2019 - 31/08/2021

Goals of the stay: Guest

Provable tasks: Visiting Professor - Coauthoring publications

2 Entity: Università Ca' Foscari di Venezia

Type of entity: University

Faculty, institute or centre: Scienze Ambientali, Informatica e Statistica

City of entity: Venecia, Veneto, Italy

Start-End date: 01/10/2011 - 18/06/2012

Duration: 8 months

Goals of the stay: Doctorate

Provable tasks: Research

Obtained grants and scholarships

Name of the grant: Beca Predoctoral Universitat Rovira i Virgili

Aims: Pre-doctoral

Awarding entity: Universitat Rovira i Virgili

Type of entity: University

Conferral date: 01/09/2008

Duration: 4 years

End date: 31/08/2012



Scientific societies and professional associations

1 Name of the society: Col·legi Oficial Enginyeria en Informàtica de Catalunya
Start-End date: 2012 - 2019

2 Name of the society: COMSOTEC (www.comsotec.org)
Start date: 2015

3 Name of the society: Complex Systems Society
Start date: 2015

4 Name of the society: Complexitat.cat (complexitat.cat)
Start date: 2015

Prizes, mentions and distinctions

1 Description: 2024 Web Science Trust Test of Time Award
Awarding entity: Web Science Trust (WST)
City awarding entity: Stuttgart, Germany
Conferral date: 22/04/2024

2 Description: Premi Cross, Inter, and trans-disciplinary Collaborations de la UOC
Awarding entity: Universitat Oberta de Catalunya **Type of entity:** University
Conferral date: 23/02/2024
Recognition linked: Applying multilayer analysis to morphological, structural, and functional brain networks to identify relevant dysfunction patterns

3 Description: Premi Cross, Inter, and trans-disciplinary Collaborations de la UOC
Awarding entity: Universitat Oberta de Catalunya **Type of entity:** University
Conferral date: 08/03/2022
Recognition linked: Paper - Measuring and mitigating behavioural segregation using Call Detail Records

Summary of other achievements

1 Description of the achievement: Avaluació Activitat Acadèmica- Tram docent (Docentia)
Accrediting entity: FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA
Conferral date: 22/12/2022

2 Description of the achievement: Activitat investigadora (sexennis) per conveni (2014-2019)
Accrediting entity: Agencia Per A La Qualitat Del Sistema Universitari De Catalunya **Type of entity:** State agency
City accrediting entity: Barcelona, Catalonia, Spain
Conferral date: 10/12/2021

**3 Description of the achievement:** Activitat investigadora (sexennis) per conveni (2008-2013)

Accrediting entity: Agencia Per A La Qualitat Del Sistema Universitari De Catalunya

Type of entity: State agency

City accrediting entity: Barcelona, Catalonia, Spain

Conferral date: 20/12/2019

4 Description of the achievement: Acreditacion Professorat Agregat

Accrediting entity: Agencia Per A La Qualitat Del Sistema Universitari De Catalunya

Type of entity: State agency

City accrediting entity: Barcelona, Catalonia, Spain

Conferral date: 13/10/2016

5 Description of the achievement: Acreditacion Professorat Lector

Accrediting entity: Agencia Per A La Qualitat Del Sistema Universitari De Catalunya

Type of entity: State agency

City accrediting entity: Barcelona, Catalonia, Spain

Conferral date: 21/02/2013

6 Description of the achievement: Reviewer Networks and Spatial Economics**7 Description of the achievement:** Reviewer PLoS ONE**8 Description of the achievement:** Reviewer PRE**9 Description of the achievement:** Reviewer Pattern Recognition**10 Description of the achievement:** Reviewer Physica A**11 Description of the achievement:** Reviewer Physica D: Nonlinear Phenomena**12 Description of the achievement:** Reviewer Physica D: Nonlinear Phenomena**13 Description of the achievement:** Reviewer Royal Society Open Science**14 Description of the achievement:** Reviewer Scientific Reports - Nature



Other merits of research activity