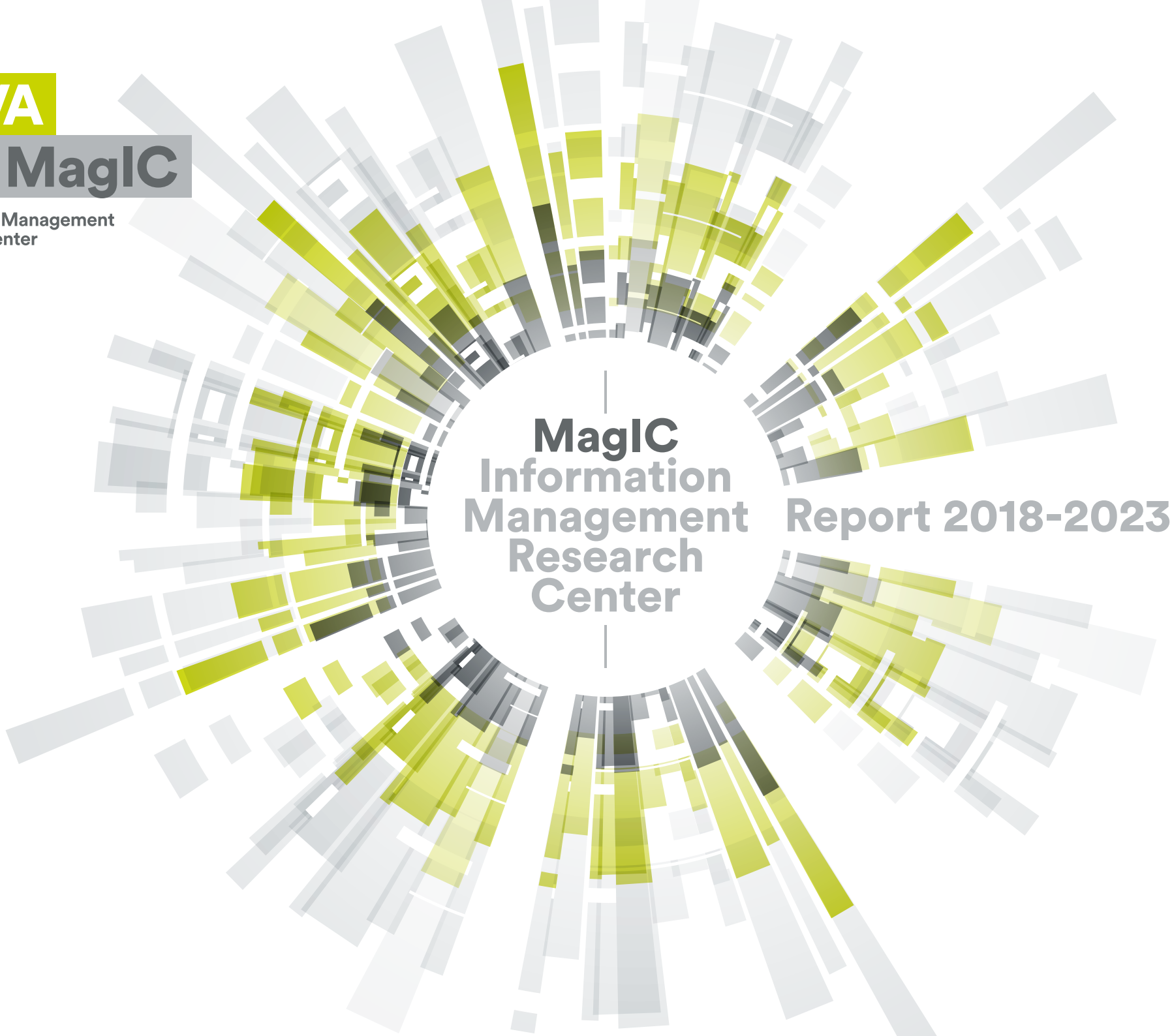
NOVA IMS MagIC

Information Management Research Center



MagIC Information Management Research Center Report 2018-2023

Data with purpose

contents

TITLE
MagIC - Information Management Research Center
Report 2018-2023

COORDINATION
Professor Tiago Oliveira
Professor Leonardo Vanneschi

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MagIC's Rise to Excellence: a Five-Year Legacy in Information Management and Data Science.

Data is transforming the way we understand and respond to the world.

In today's data-driven world, MagIC Research Center stands out as a leader in Information Management and Data Science research. From the very beginning, MagIC has focused on harnessing the power of data to drive innovation across science and business, empowering individuals, strengthening organizations, and contributing to societal advancement.

Over the past five years, our team of over 90 researchers has secured over 40 R&D projects with a total value of €11.6 million, solidifying MagIC as a nationally recognized center of excellence.

Our Information Systems Research Stream garnered global acclaim due to the impactful funding of projects like "TwinAir" and "DE-RISK." These initiatives delve deep into comprehending consumer behavior across Europe. Our primary focus revolves around IT innovation, adoption, and challenges, empowering us to thoroughly grasp user journeys through meticulous analysis employing primary and secondary surveys as well as real-behavior data. We deploy tailored models to discern behavior clusters, unveiling critical adoption drivers and inhibitors. These insights are instrumental in steering decisions across vital domains such as renewable energy, indoor air quality, and climate resilience, enabling us to contribute significantly to strategic directions and advancements in these areas.

In Data Science, our work consists of employing cutting-edge machine learning methods to generate informative predictive and descriptive models in areas such as biology, image processing, personalized medicine, engineering, society and logistics. Projects like "BINDER" refine cancer treatments using advanced machine learning and deep learning technologies. Similarly, "GADGET" aims to impact lives positively by identifying addictive behaviours, and "AICE" aims to characterize the overindebtedness of families and individuals in Portugal and counteract poverty.

Professor Tiago Oliveira
DIRECTOR OF MAGIC RESEARCH CENTER | (SEPT 2018 - NOV 2023)

In Geoinformatics, our research encompasses activities related to the acquisition, analysis, and interpretation of spatial data. It involves utilizing geographic information systems (GIS), remote sensing, and GPS technologies for mapping, monitoring, and managing geographical information. Geoinformatics activities contribute to diverse fields, including urban planning, environmental monitoring, natural resource management, and disaster response, providing valuable insights through the effective utilization of spatial data and technology. Projects like "MaSOT," "MozambES," and "CityMe" aim to utilize spatial data for enhancing ecosystem understanding, urban mapping, and assessing the economic and ecological value of critical environmental landscapes.

In the Data-driven marketing stream, our work consists of advanced research addressing critical areas such as digital marketing and social media, artificial intelligence in marketing, consumer behavior, data science, and marketing analytics. Our research encompasses analyzing consumption in digital and technological environments, exploring psychological processes, and utilizing advanced neuromarketing tools such as face reader, eye tracker, and EEG. More recently, we highlight our collaboration with the Data Science stream in the "AICE" project, contributing to the development of interventions to mitigate overindebtedness and poverty in Portugal.

In these last years, our esteemed research team at achieved remarkable milestones. Nine of our distinguished Professors were acknowledged in the University of Stanford's World's Top 2% Scientists List, alongside my own honour of being recognized as a Highly Cited Researcher for the second consecutive year while serving as the MagIC coordinator. Concurrently, our steadfast dedication to Open Science persisted, reflected in our remarkable 85% publication rate within the Open Science framework. This commitment ensures widespread accessibility to our research findings, significantly contributing to the dissemination of knowledge.

As we look ahead, our strategic objectives become clearer. Our dedication lies in positioning MagIC as a reference center in Europe, enhancing our influence in Information Management and Data Science, and steadfastly advancing our commitment to excellence in research and academic impact.

Professor Tiago Oliveira

DIRECTOR OF MAGIC RESEARCH CENTER | (SEPT 2018 - NOV 2023)

MagIC's Vision: Tackling Societal Challenges through Multidisciplinary Data Science

Professor Leonardo Vanneschi

DIRECTOR OF MAGIC RESEARCH CENTER | NOV 2023 - PRESENT

I was fortunate to assume the leadership of the MagIC center in November 2023. The role was particularly compelling, given the remarkable accomplishments and impressive bibliometric results achieved by our research center over the past five years. Additionally, the position presented an exciting challenge, addressing the unique demands of the future era in Information Management.

In the upcoming decade, in fact, Information Systems will undoubtfully appear as the backbone of organizational efficiency, enabling seamless integration and management of data across diverse platforms. Their role in supporting agile decision-making processes will be paramount in navigating the evolving technological landscape.

Simultaneously, the importance of Data Science will be every day more tangible, offering unparalleled insights into complex datasets. As businesses strive for a competitive edge, Data Science will drive advanced analytics, predictive modelling, and Artificial Intelligence (AI) as a driving force for decision-making.

In the realm of marketing, the future years will witness a profound reliance on Data-Driven Marketing strategies. Leveraging consumer data and behavioral patterns, businesses will tailor personalized campaigns, enhancing customer engagement and satisfaction. The integration of data analytics will redefine marketing efforts, making them more targeted, efficient, and adaptable to ever-changing market dynamics.

Geoinformatics is set to play a pivotal role, as spatial data and mapping technologies become integral for decision-making across industries. From urban planning and environmental management to logistics and disaster response, Geoinformatics will provide crucial insights by

analyzing spatial relationships, fostering sustainable practices, and facilitating smart, location--based solutions.

Transversal to all this, the near future will increasingly witness the escalating significance of Smart Cities. Integrating advanced technologies like the Internet of Things and AI into urban infrastructure, Smart Cities will optimize resource utilization, enhance public services, and improve overall life quality.

Finally, the integration of AI is set to have a tremendous impact on areas such as Healthcare and Medicine. AI applications, including machine learning methods and predictive analytics, will enable more accurate diagnostics, personalized treatment plans, and efficient healthcare management. This transformative approach will not only enhance patient care but also contribute to medical research, drug discovery, and the overall optimization of healthcare systems.

To tackle the demands of modern times in technological fields, MagIC is currently undergoing some restructuring, implementing a new organizational structure aimed at achieving greater gender balance and refining the center's thematic areas. This new thematic organization represents a natural evolution from the structure maintained during the period of 2018-2023, aligning more closely with the recent contributions that have characterized the center. Positioned as a center of excellence in the integration of two distinct yet deeply interconnected areas - Management and Data Science - MagIC is specialized in hot topics within each of these two domains (for instance Information Systems, Marketing, Finance and Risk Management, and Public Policy in the area of Management, and Evolutionary Computation, Deep Learning, Imbalanced Learning, and Geoinformatics in the area of Data Science). MagIC excels in the quantity, diversity, and impact of its contributions across key impact areas including Health, Smart Cities and Territories, Sustainability, Tourism and Hospitality, and Education, that are clearly at the intersection between Management and Data Science. This positions MagIC for the future as a cutting-edge research center with unique characteristics at a global level.

Professor Leonardo Vanneschi

DIRECTOR OF MAGIC RESEARCH CENTER | NOV 2023 - PRESENT

Facts and figures

Facts and figures

PEOPLE

93
RESEARCHERS

RESEARCH OUTPUTS ARTICLES IN 2018-2023

* based on articles' analysis from 2018-2023 (update on 30 January 2024)

JOURNAL QUALITY * 36%

36% in top 10%

70% in top 25%

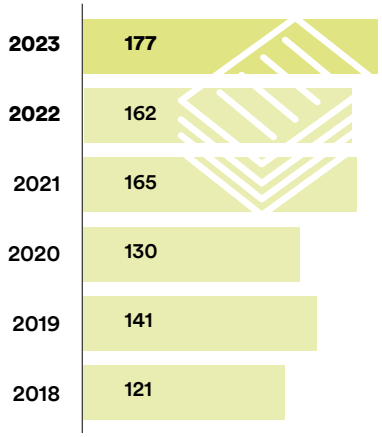
CITATIONS PER PUBLICATION *

24,7

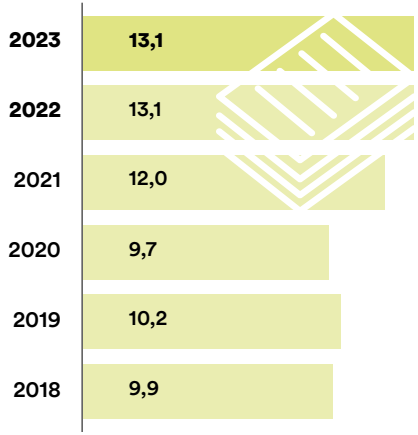
FIELD-WEIGHTED CITATION IMPACT *

2,01

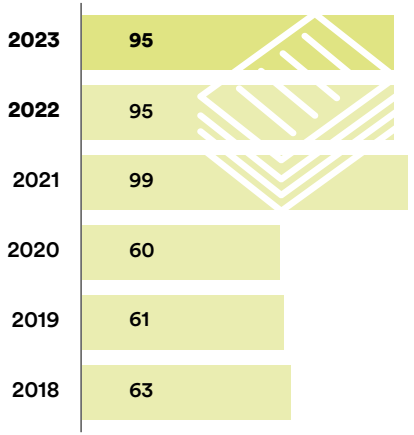
PUBLICATIONS INDEXED IN WOS OR SCOPUS



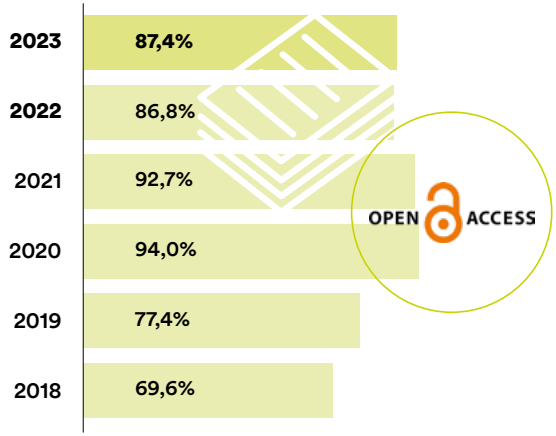
PUBLICATIONS INDEXED IN WOS OR SCOPUS / FTE INTEGRATED RESEARCHER



PUBLICATIONS EXCELLENCE (AWARDED PUBLICATIONS)



% OF PUBLICATIONS ON IMMEDIATE OPEN ACCESS

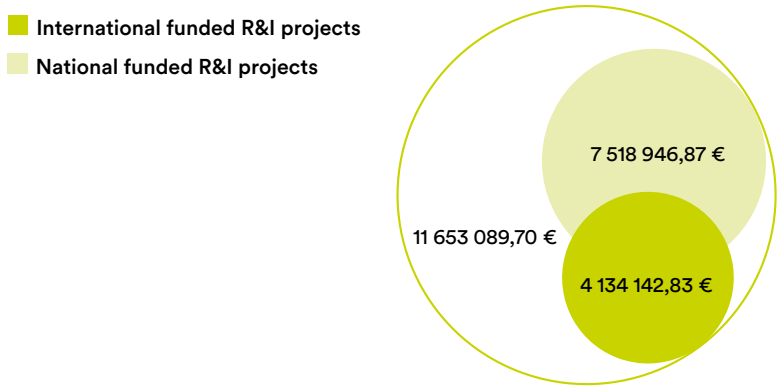


RESEARCH PERFORMANCE HIGHLIGHT

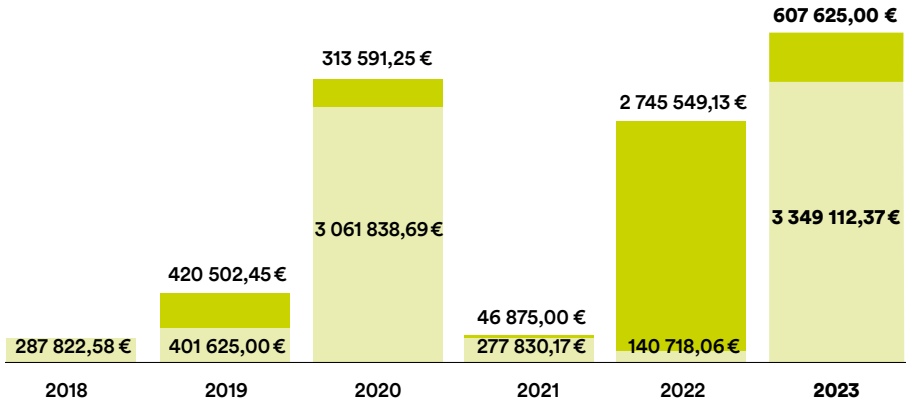
The **NOVA IMS researchers Tiago Oliveira (primary affiliation) and Jörg Henseler (secondary affiliation)** were included in the prestigious **2021, 2022 and 2023 edition of the "Highly Cited Researchers" index,** an initiative by Clarivate Analytics that recognizes the most influential scientists worldwide that rank in the **top 1% globally, by number of citations per field, in the Web of Science. Professor Tiago Oliveira is a member of a select coterie of only 20 individual acclaimed scientists in Portugal.**

RESEARCH & INNOVATION PROJECTS R&I PROJECTS 2018-2023

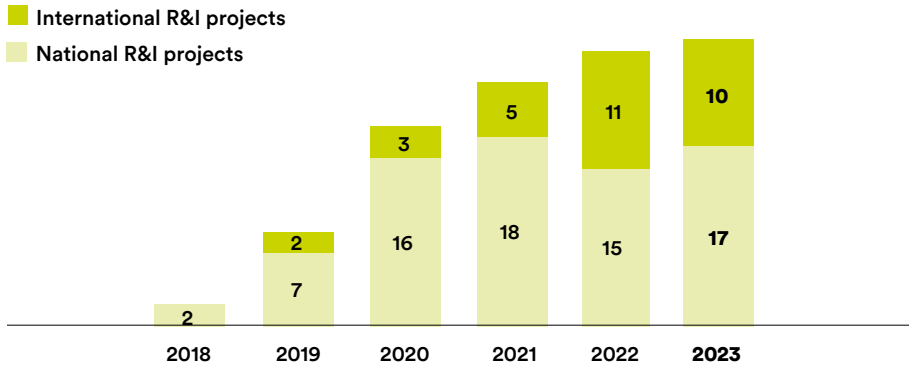
TOTAL AWARDED FUNDS FOR R&I PROJECTS (2018-2023)



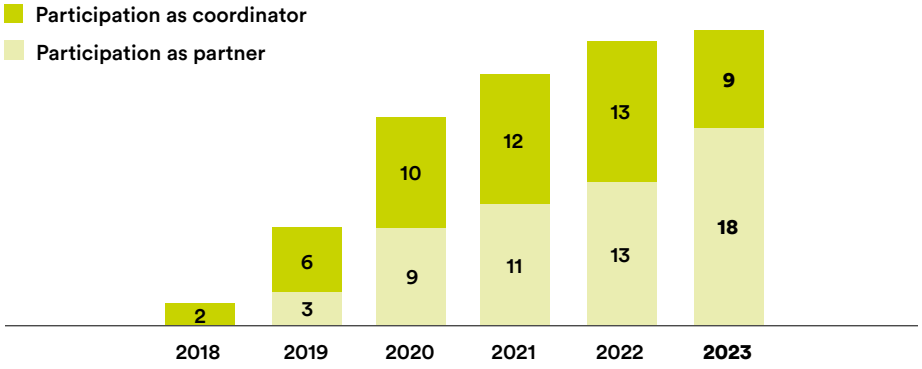
AWARDED FUNDS FOR R&I PROJECTS (2018-2023)



NATIONAL AND INTERNATIONAL R&I PROJECTS (2018-2023)



TYPE OF LEADING ROLE IN THE R&I PROJECTS (2018-2023)



KNOWLEDGE SPREADING AND ACCELERATION

+160
scientific conferences participations

+100
science outreach activities to the society

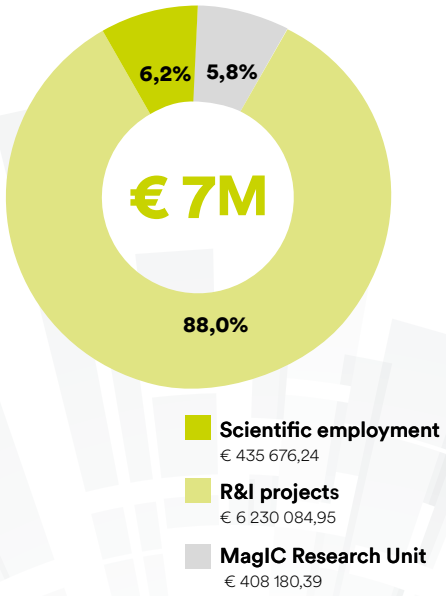
12
capacity-building projects

11
NOVA Analytics Labs

1
NOVA IMS Doctoral Programme in Information Management

RESEARCH FUNDING RESEARCH BUDGET FOR R&I ACTIVITIES 2018-2023

R&I BUDGET BREAKDOWN (2018-2023)



About MagIC

ABOUT MAGIC

The **Information Management Research Center (MagIC)** is the research center of the **NOVA Information Management School (NOVA IMS)** the NOVA University of Lisbon. Located in the vibrant Metropolitan Area of Lisbon, MagIC is based at the Campolide Campus.

Integrating Information Management and Data Science, MagIC conducts interdisciplinary research encompassing information systems, data-driven marketing, machine learning, geoinformatics and smart cities. MagIC is dedicated to **developing tools and methods that facilitate informed decision-making**, ultimately benefiting individuals, organizations, and society as a whole. Our research delves into the study of information and the intricate dynamics between humans, organizations, and information. By harnessing the power of Information Management and Data Science, we strive to enhance productivity and sustainability by enabling data-driven decisions and promoting fact-based approaches.

PEOPLE

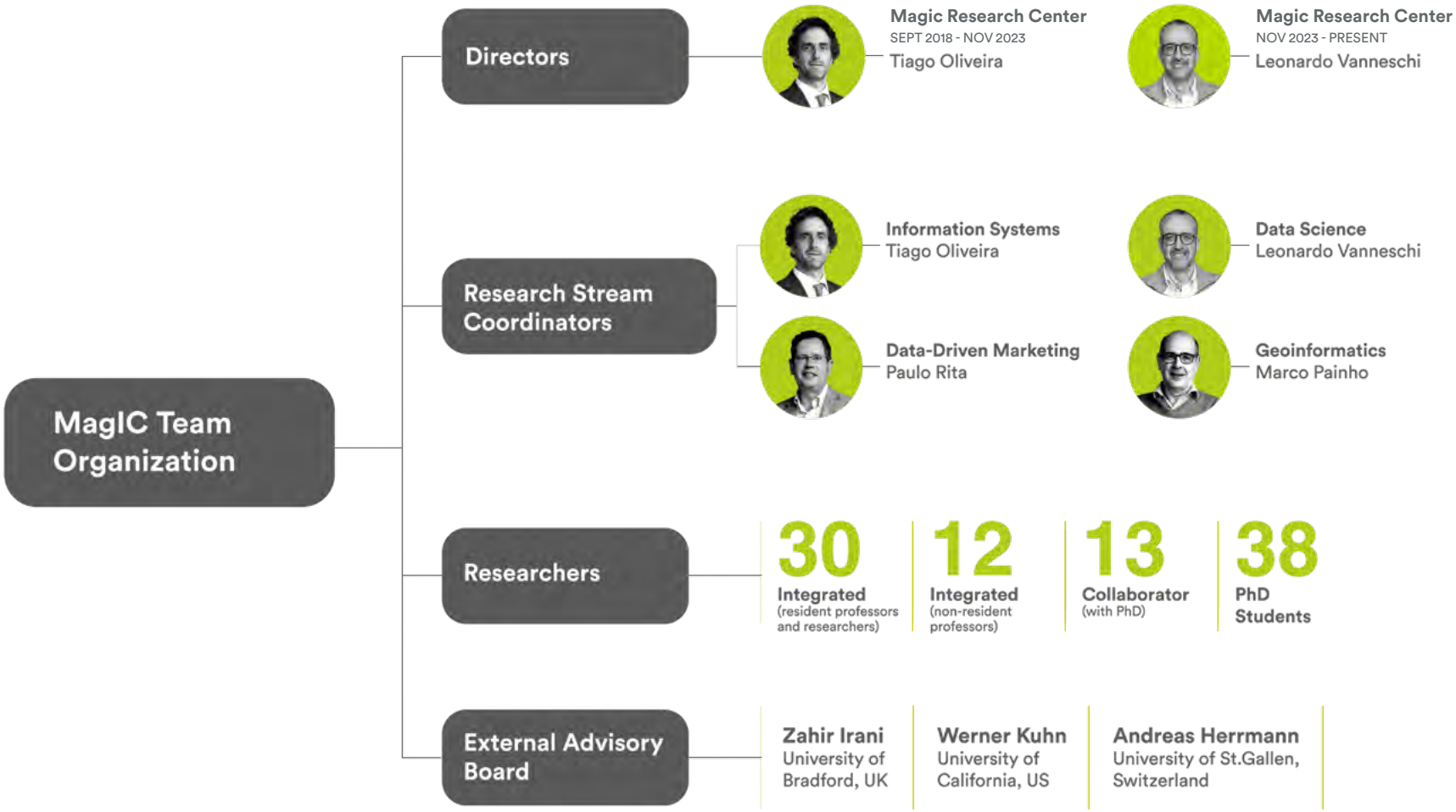
- 6 FULL PROFESSORS
- 7 ASSOCIATED PROFESSORS
- 14 ASSISTANT PROFESSORS
- 3 FULL-TIME RESEARCHERS
- 12 NON-RESIDENT PROFESSORS
- 13 COLLABORATORS
- 38 PHD STUDENTS
- 2 RESEARCH MANAGERS

OUR RESEARCH CENTER BRINGS TOGETHER RESEARCHERS FROM MORE THAN 24 NATIONALITIES

ORGANIZATION

The governance of the MagIC goes through the Director, the Scientific Council, and the Council of Integrated Researchers. The current management duties of each research stream are the responsibility of the executive board, which is composed of the coordinators of each research stream. An eminent external Scientific Advisory Board oversees MagIC's scientific activities.

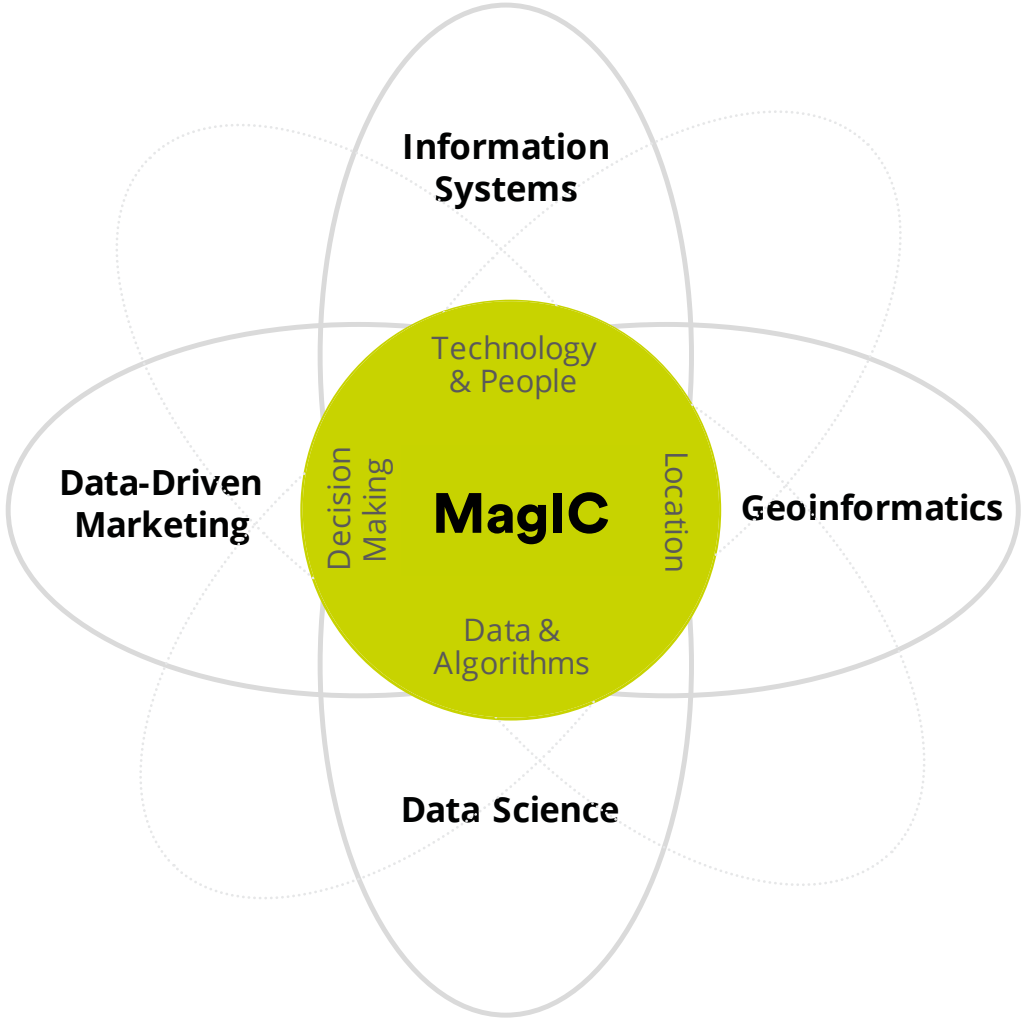
ORGANIGRAM



Research streams

RESEARCH STREAMS

The MagIC research center is organized at the intersection between Information Management and Data Science, structured around four interconnected research streams: Information Systems, Data Science, Geoinformatics, and Data-driven Marketing. These streams share a joint mission to advance research and facilitate synergies into key impact areas, such as health, smart cities and territories, sustainability, tourism and hospitality, and education.



INFORMATION SYSTEMS RESEARCH STREAM

In the Information Systems Research Stream the emphasis is on understanding the key drivers for the diffusion, adoption, and success of information technology artifacts at the individual and organizational levels. In this area, we investigate better lenses in each context that allow us to understand and promote technology across every adoption unit.

Coordinator:
Professor
Tiago Oliveira

DATA-DRIVEN MARKETING RESEARCH STREAM

The Data-driven Marketing Research Stream aims to understand consumer processes in digital environments and underlying neural mechanisms for information processing and decision-making, thus going beyond traditional views of marketing research and consumer psychology.

Coordinator:
Professor
Paulo Rita

DATA SCIENCE RESEARCH STREAM

The Data Science Research Stream relies on studying, developing, and strengthening Machine Learning for most of its scientific and applied research endeavors, with the ultimate goal of using existing or novel "intelligent" methods to improve the health and wellness of human beings and their social and economic state.

Coordinator:
Professor
Leonardo Vanneschi

GEOINFORMATICS RESEARCH STREAM

The Geoinformatics Research Stream combines geospatial modelling, geospatial database development, information systems design, human-computer interaction, and information and communication technologies. This research stream includes the use of technology, such as geographic information systems and remote sensing.

Coordinator:
Professor
Marco Painho

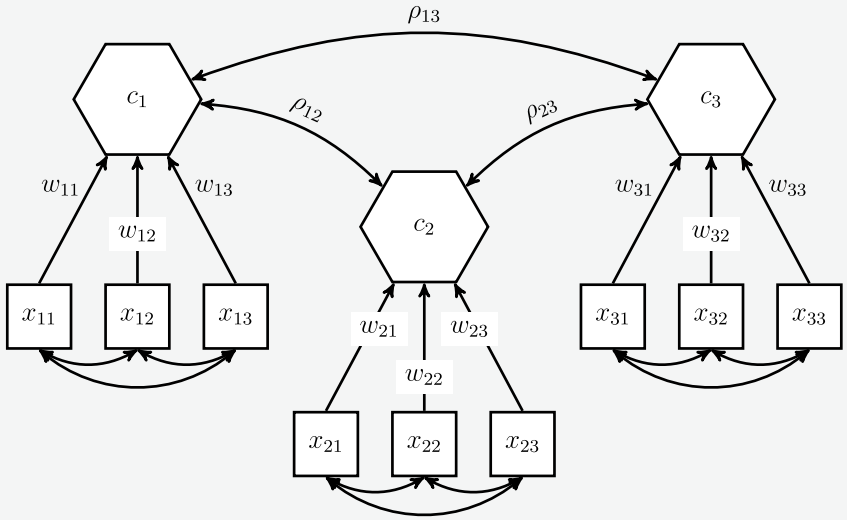
RESEARCH HIGHLIGHTS

CONFIRMATORY COMPOSITE ANALYSIS: A NOVEL APPROACH FOR VALIDATING FORMATIVE CONSTRUCTS

MagIC researchers have significantly contributed to Information Systems, particularly in modeling abstract concepts like service quality, equity, human development, and socioeconomic status. These concepts are formative constructs and are better modeled by composites than by common factors. However, the current psychometric toolbox for scale validation, especially confirmatory factor analysis, does not apply to composites.

To address this, MagIC researchers proposed **Confirmatory Composite Analysis (CCA)** to assess the discrepancy between empirical and model-implied variance-covariance matrices of elementary variables. Our research shows that partial least squares and maximum likelihood can be used as estimators for CCA.

Jörg Henseler, a MagIC integrate member, comprehensively describes CCA in his textbook on composite-based structural equation modeling and introduces synthesis theory as the theoretical basis for composite models. He also develops a novel specification for composites, which was later named the **"Henseler-Ogasawara" specification. A refinement of the H-O specification was developed in 2023.** Tutorials demonstrate how CCA can be used in business, human development, tourism, and hospitality research.



SchubiF (2019): https://en.wikipedia.org/wiki/Confirmatory_composite_analysis#/media/File:3_composite_model.svg, CC BY-SA 4.0

Jörg Henseler. (2021). Composite-Based Structural Equation Modeling: Analyzing Latent and Emergent Variables (1st Edition). The Guilford Press.

ENHANCING STUDENT SUCCESS IN MASSIVE OPEN ONLINE COURSES: A GAMIFIED APPROACH WITH HIGH COMPLETION RATES

The MagIC team, led by researchers **Manuela Aparicio, Tiago Oliveira, Fernando Bação, and Marco Painho**, has been dedicated to analyzing individual usage behaviors, particularly in education, transitioning from broad theoretical frameworks to concrete impact areas. In a close collaboration between Information Systems, Management, and Data Science disciplines, MagIC conducted a study to understand the primary drivers behind Massive Open Online Courses (MOOCs). This research directly informed the development of **UNL's first MOOC about geoinformatics technologies**, which was made freely accessible on a digital platform.

Many MOOCs face the challenge of maintaining student engagement throughout the duration of courses. Addressing this challenge, **MagIC researchers developed a gamified MOOC** to investigate the impact of gamification on student success. This innovative approach resulted in **higher completion rates and increased participation throughout the various modules of the MOOC**. Their research demonstrates that integrating challenging activities, escalating difficulty levels, and clearly defined rules significantly enhances participant engagement and success.

This research holds practical implications for the industry, particularly for digital MOOC platforms. It directly facilitated the provision of a free GIS course to **over 4,000 online learners across multiple editions of the MOOC**, representing a diverse cohort spanning 18 countries and encompassing practitioners from 14 distinct economic activities.

Aparicio, M., Oliveira, T., Bacao, F., & Painho, M. (2019). Gamification: A key determinant of massive open online course (MOOC) success. Information & Management, 56(1), 39–54. https://doi.org/10.1016/j.im.2018.06.003

THE FEELING ECONOMY OF AI: HOW ARTIFICIAL INTELLIGENCE IMPACTS EMPLOYEE EMOTIONS ACROSS COGNITIVE AND AFFECTIVE TASKS

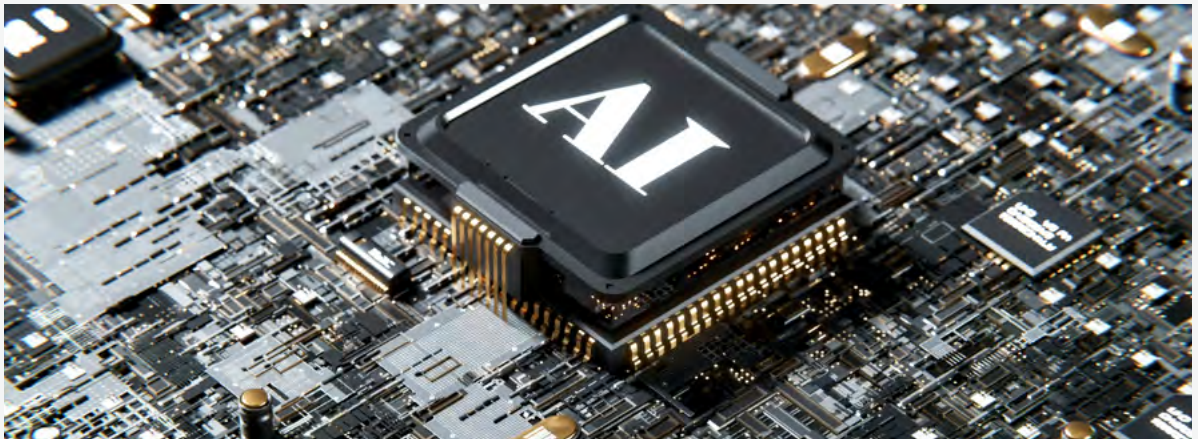
In a recent article published in 2022 by **Darina Vorobeva, Yasmina El Fassi, Diego Costa Pinto, et al.**, MagIC researchers investigated the impact of Artificial Intelligence (AI) on the emotional experiences of service employees. The study focused on the **contrast between cognitive and affective tasks**, highlighting how AI can influence employee well-being differently depending on the task type.

By integrating the feeling economy framework with social comparison theory, the research found that **AI amplifies adverse effects on employees involved in cognitively demanding tasks**, as opposed to those engaged in emotionally engaging tasks. This finding provides valuable insights into human-AI interaction and sheds light on the **psychological processes underlying employees' reactions** to AI incorporation in the workplace.

The research by **Vorobeva et al**. offers several key takeaways:

- **Enhanced comprehension of human-AI interaction**
- **Insights into the psychological impact of AI on employees**
- **Strategic insights for managerial decision-making** on AI implementation
- **Promotion of responsible AI practices** that prioritize employee well-being and ethical standards
- **Advancement of academic understanding** of the emotional complexities of AI-driven work environments

This research contributes significantly to our understanding of the human element in AI integration and paves the way for more mindful and employee-centric AI implementation strategies.



Vorobeva, D., El Fassi, Y., Costa Pinto, D., Hildebrand, D., Herter, M. M., & Mattila, A. S. (2022). Thinking Skills Don't Protect Service Workers from Replacement by Artificial Intelligence. Journal of Service Research, 25(4), 601–613. https://doi.org/10.1177/10946705221104312

GROUNDBREAKING RESULTS IN PREDICTING TUMOUR RESPONSES THANKS TO ADVANCED MACHINE LEARNING

MagIC researchers have made significant contributions to the area of Health over the last five years, particularly through the BINDER FCT project coordinated by **Leonardo Vanneschi** in collaboration with the Champalimaud Foundation. Using **novel and cutting-edge machine learning and deep learning methods**, this project unveiled previously unknown distinctions between breast and axilla tumors, examining diverse types of data, including radiomic features. The study found that **peritumoral radiomic features play a pivotal role in breast tumors, while the internal tumor area is significant in axilla tumors, suggesting higher predictability for breast tumors compared to axilla tumors**. However, leveraging **advanced regularization techniques**, our models achieved an unprecedented **87% accuracy in prognosticating complete pathologic responses of axilla tumors**, a groundbreaking result in the literature for this tumor type. Additionally, within the BINDER project, a **deep learning framework was devised for tumor cell detection and quantification from microscopic images**, alongside pioneering strategies for prostate segmentation. The BINDER project's empirical findings offer insights into previously unknown distinctions between breast and axilla tumors, with significant implications for predicting complete pathologic responses of axilla tumors, **advancing the field of Health through cutting-edge machine learning and deep learning methods**.

BINDER: Improving Bio-Inspired Deep Learning for Radiomics. Funded by the FCT (Fundação para a Ciência e a Tecnologia), Portugal, FCT, PTDC/CCI-INF/29168/2017. Period: 2018–2021. Coordination: NOVA IMS. Partners: NOVA IMS; Faculty of Science of the University of Lisbon; University of Coimbra; Champalimaud Foundation.

HIGH-PRECISION METHOD FOR MEASURING TARGETS FROM DRONE-CAPTURED IMAGES

MagIC is actively involved in Geoinformatics research and have been focusing our research on **remotely piloted drones**, an increasingly popular tool for surveillance and law enforcement due to their **versatility and cost-effectiveness**. Accurate estimation of real-time metric quantities in digital image-based surveillance is crucial, requiring precise knowledge of image acquisition parameters, including **camera position**. However, drone-based camera positioning, relying on GPS coordinates, may lack precision. MagIC researchers have developed a novel, efficient method to measure the dimensions of targets captured in aerial images, utilizing key parameters such as **focal length, detector dimensions, and Pitch and Roll angles**. Notably, the method accurately determines elevation by referencing **just two known points visible in the image, derived from a Digital Elevation Model (DEM)**. Testing with high-resolution DEMs and aerial images yielded promising results, with metrics estimated within an **error margin of less than 5 cm in most cases**. The innovative nature of the method and its outstanding performance were acknowledged through the issuance of a European patent.

Painho, M., Tonini, A., Castelli, M., (2023). A method for determining a height of an object from a single image recorded by an imaging device comprised by an aerial vehicle. Patent Number: EP4119892A1

2018-2023 SCIENTIFIC PUBLICATIONS HIGHLIGHTS

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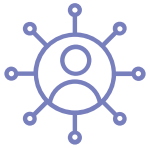
Research and Innovation projects

RESEARCH AND INNOVATION PROJECTS

The MagIC research center actively engages in national and **international Research and Innovation (R&I) projects**, driving cutting-edge scientific advancements and tackling critical challenges in Data Science and Information Management. Collaborative partnerships with institutions and researchers foster a vibrant **exchange of ideas, expertise, and resources, enabling access to diverse datasets, unique methodologies, and varied perspectives**. This aspect enriches the quality and diversity of MagIC's research outcomes and, ultimately, its broader impact. Moreover, active involvement in these projects bolsters **MagIC's positioning and recognition within the scientific community, attracting top talent, funding opportunities, and valuable collaborations**.

39

R&I projects between 2018 and 2023
(**27** national, **12** international)



17

R&I projects as coordinator

100%

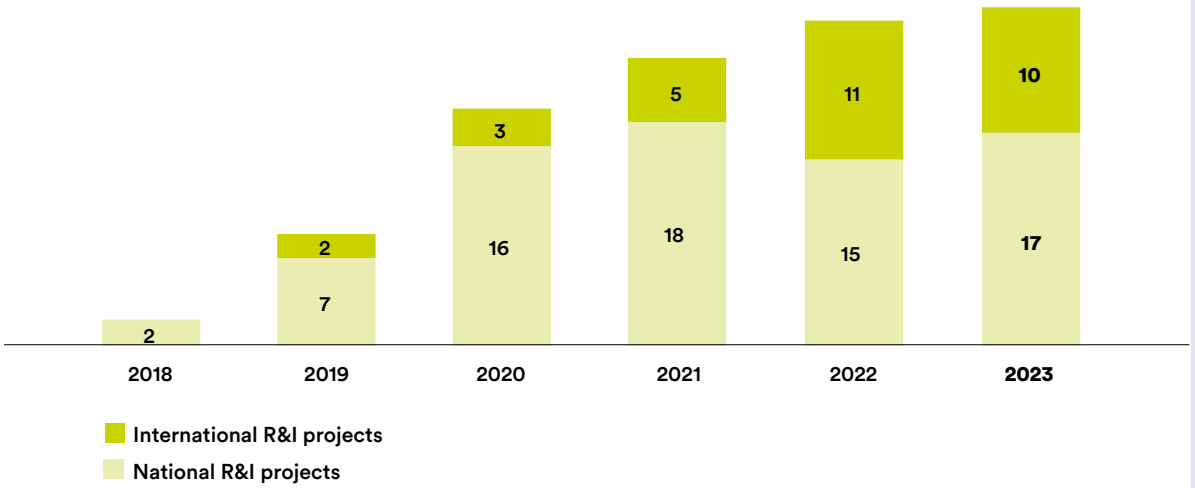
competitive funding

PROJECTS AND COMPETITIVE FUNDING FOR R&I

From 2018 to 2023, the MagIC research center hosted a remarkable 39 Research and Innovation (R&I) projects. The number of ongoing R&I projects saw steady growth throughout this period, increasing from 2 in 2018 to 27 in 2023, representing a growth rate of 1250%. These projects secured funding through competitive applications, showcasing the center's strong record in securing research grants.

Among the 39 projects, 27 received funding from national programs, while 12 secured support from international funding programs. This distribution reflects a consistent presence of both national and international funding throughout the years. Notably, the increasing number of projects receiving international funding underscores MagIC's expanding global collaborations and its growing recognition as a leading research center in its field.

NATIONAL AND INTERNATIONAL R&I PROJECTS (2018-2023)



" With a team comprising 41 dedicated researchers, 2023 marked a significant achievement with 27 ongoing R&I projects – the highest number ever.

2023

This remarkable accomplishment reflects the team's exceptional drive and ability to secure funding and spearhead cutting--edge research.

The MagIC research center has strategically adopted an approach to address the unpredictable nature and limited availability of open calls at the national level. This approach, characterized by a diversified funding portfolio, ensures stability and sustainability.

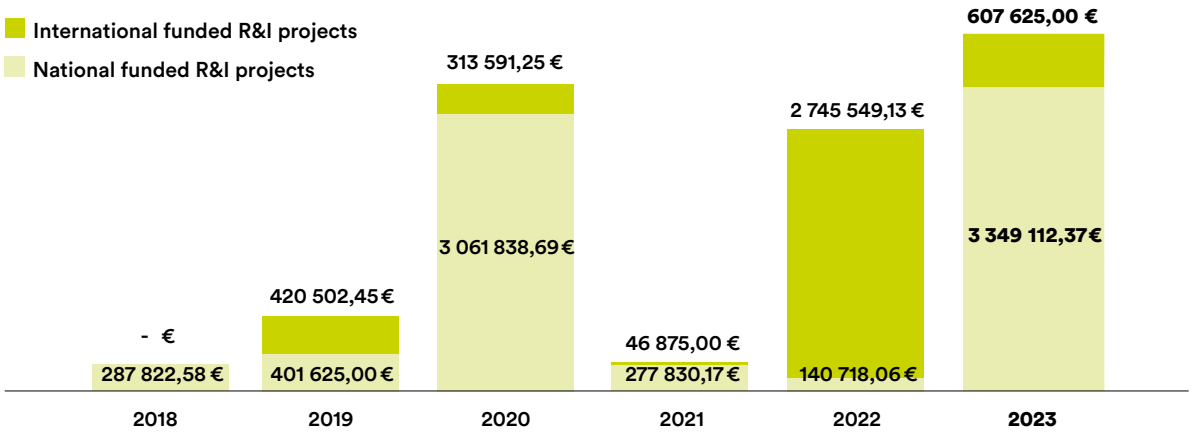
This diversified portfolio comprises nine distinct funding sources, none exceeding 25% of the total contribution. While national funding remains a key pillar, contributing 64.5% of the total between 2018 and 2023, international funding has seen significant growth, reaching 35.5%. This diversification strengthens MagIC's financial health and positions us for long-term sustainability.

2023 witnessed the highest amount of funds raised for R&I projects, totalling 3 956 737,37 €

FUNDING SOURCE FOR MAGIC R&I PROJECTS (2018-2023)

Furthermore, MagIC strategically partners with national non-academic entities like SMEs and government agencies. This collaboration allows us to integrate our research activities into broader projects focused on innovation and modernization initiatives – unlocking new funding opportunities beyond traditional research channels.

AWARDED FUNDS FOR R&I PROJECTS (2018-2023)



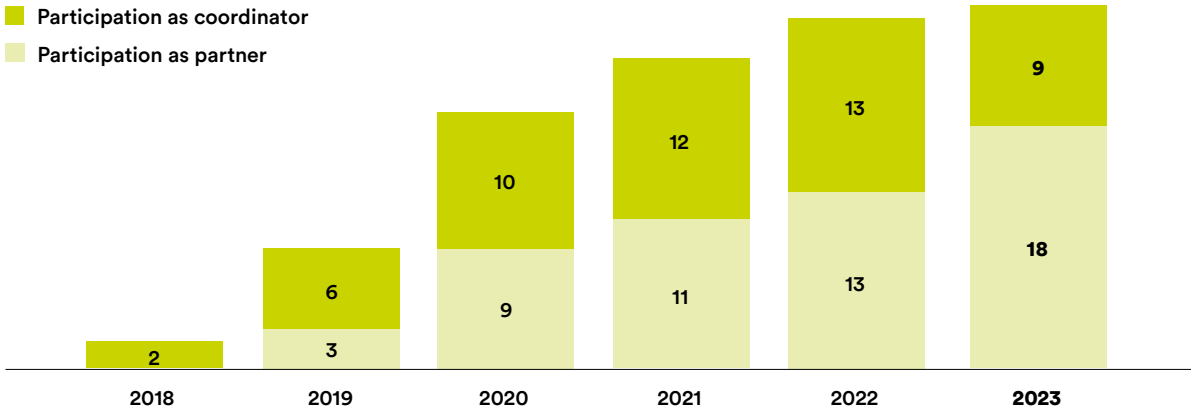
MagIC successfully coordinating an impressive 17 R&I projects, representing a significant 43,6% of the total

18/23

MagIC's proactive fundraising strategy has yielded remarkable results. Between 2018 and 2023, the center secured record-breaking funding for R&I projects, experiencing a consistent annual growth of over 240%. This culminated in a record-breaking € 3 956 737,37 raised in 2023.

While significantly increasing its participation in R&I projects, MagIC also maintained its leadership position in project implementation. Notably, from 2018 to 2023, MagIC successfully coordinated an impressive 17 R&I projects, representing a significant 43,6% of the total.

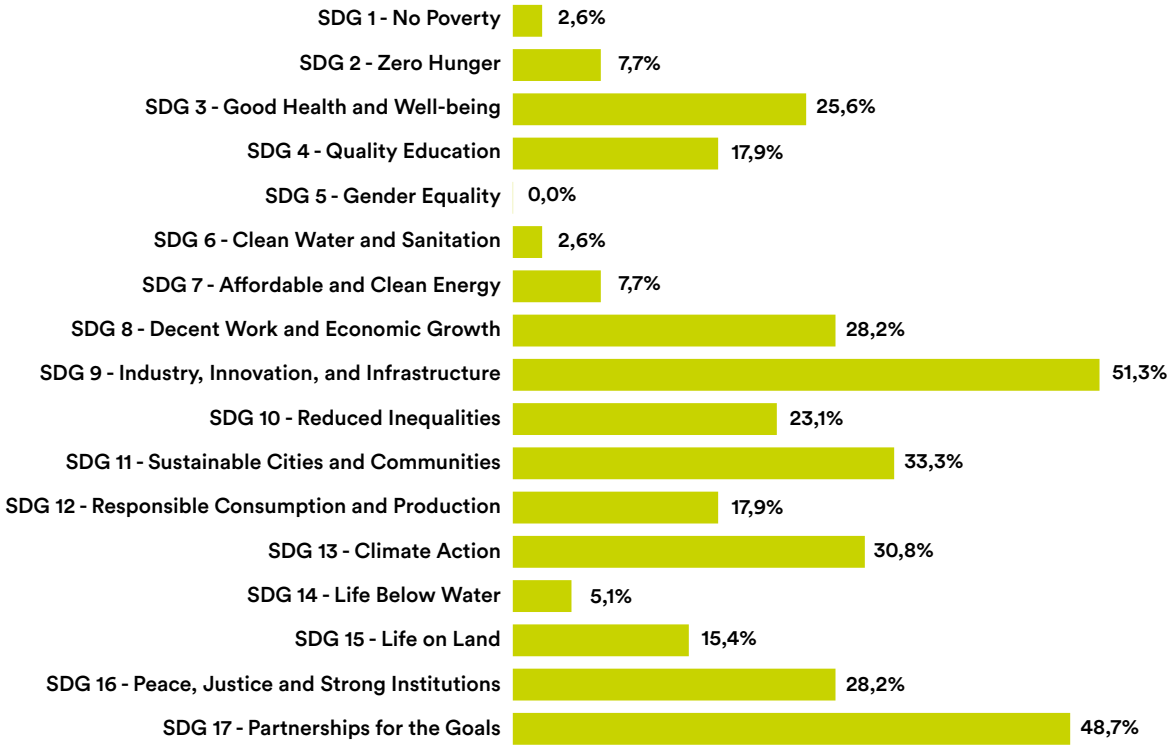
TYPE OF LEADING ROLE IN THE R&I PROJECTS (2018-2023)



R&I PROJECTS FOR SUSTAINABILITY DEVELOPMENT

At MagIC, we recognize the critical role research plays in addressing global challenges outlined in the United Nation's Sustainable Development Goals (SDGs). We actively deliver tangible impacts on the SDGs by developing innovative data-driven solutions, fostering interdisciplinary collaborations, and engaging stakeholders.

R&I PROJECTS CONTRIBUTION TO THE SDGs (2018-2023)



A complete list of the R&I projects hosted in MagIC from 2018 to 2023 can be found at the end of this report.

SUSTAINABLE DEVELOPMENT GOALS

18/23

In the past five years, our efforts span various areas, including industry and innovation, education, economic growth, sustainable cities, climate action, and promoting peace, justice, and strong institutions.

Research outputs

RESEARCH OUTPUTS

MagIC researchers have consistently maintained a strong presence in the scientific community by publishing their work in renowned international journals. Their contributions to these peer-reviewed venues have further solidified the center's reputation for producing high-quality scientific research.

1070
total publications in 2018-2023

83,7%
of publications indexed in WoS and/or Scopus

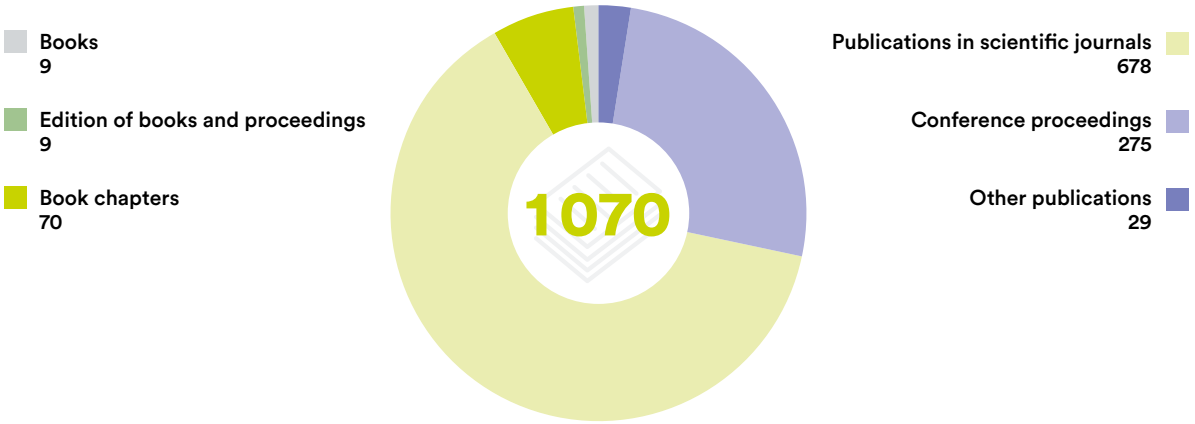
84,7%
open access publications

45,8%
of publications with international collaborations

RESEARCH PUBLICATIONS AND IMPACT

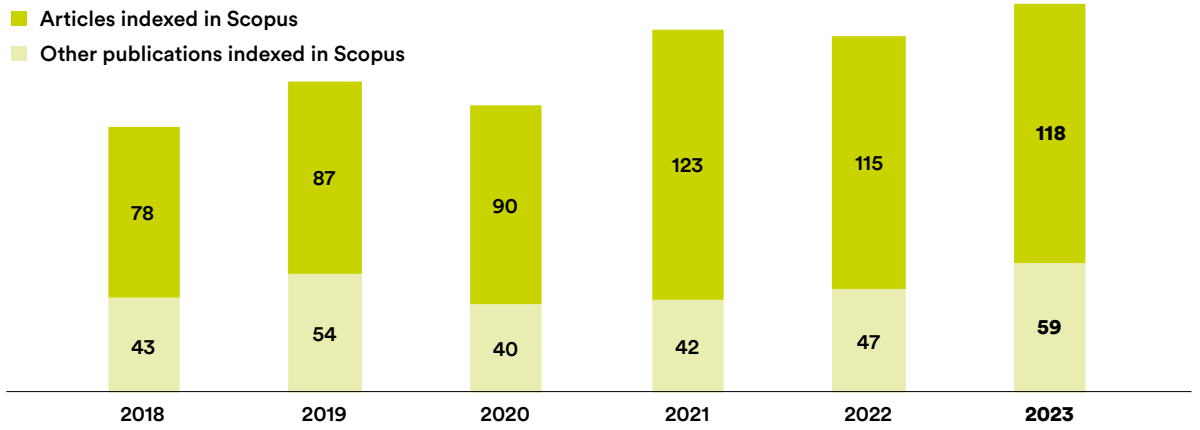
From 2018 to 2023, MagIC achieved an impressive milestone with a total of 1070 peer-reviewed publications, resulting in an average ratio of 4,9 publications per PhD researcher.

RESEARCH PUBLICATIONS (2018-2023)



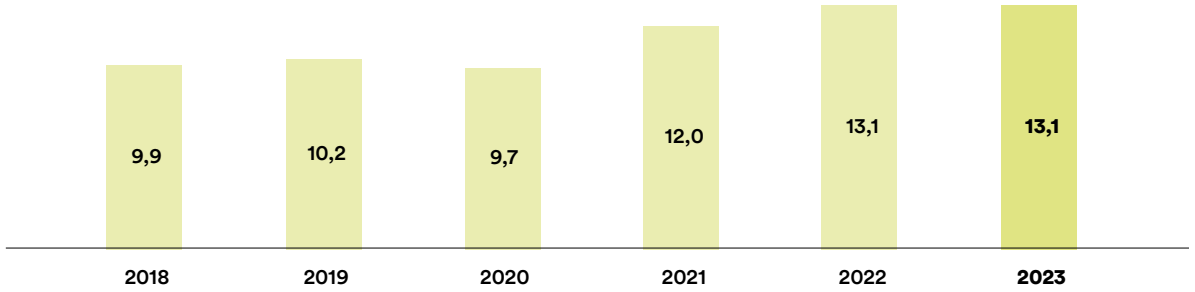
Notably, 896 of these publications are indexed in prestigious databases such as WoS and/or Scopus, accounting for 83,7% of MagIC's scientific outputs. Among the indexed publications, 68,2% consist of scientific articles.

PUBLICATIONS INDEXED IN WOS OR SCOPUS



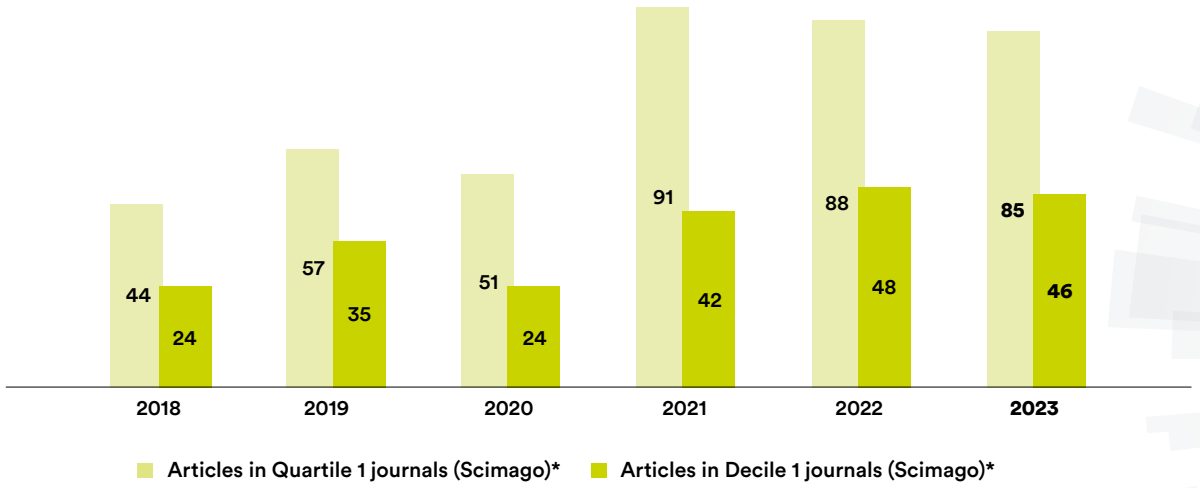
In terms of index publication on Web of Science and/or Scopus, the productivity ratio of MagIC remains remarkably impressive, boasting an average of 11 indexed publications per Full-Time Equivalent (FTE) integrated researcher. This noteworthy achievement reflects MagIC's dedication and commitment to delivering impactful and high-quality research outputs.

PUBLICATIONS INDEXED IN WOS OR SCOPUS / FTE INTEGRATED RESEARCHER

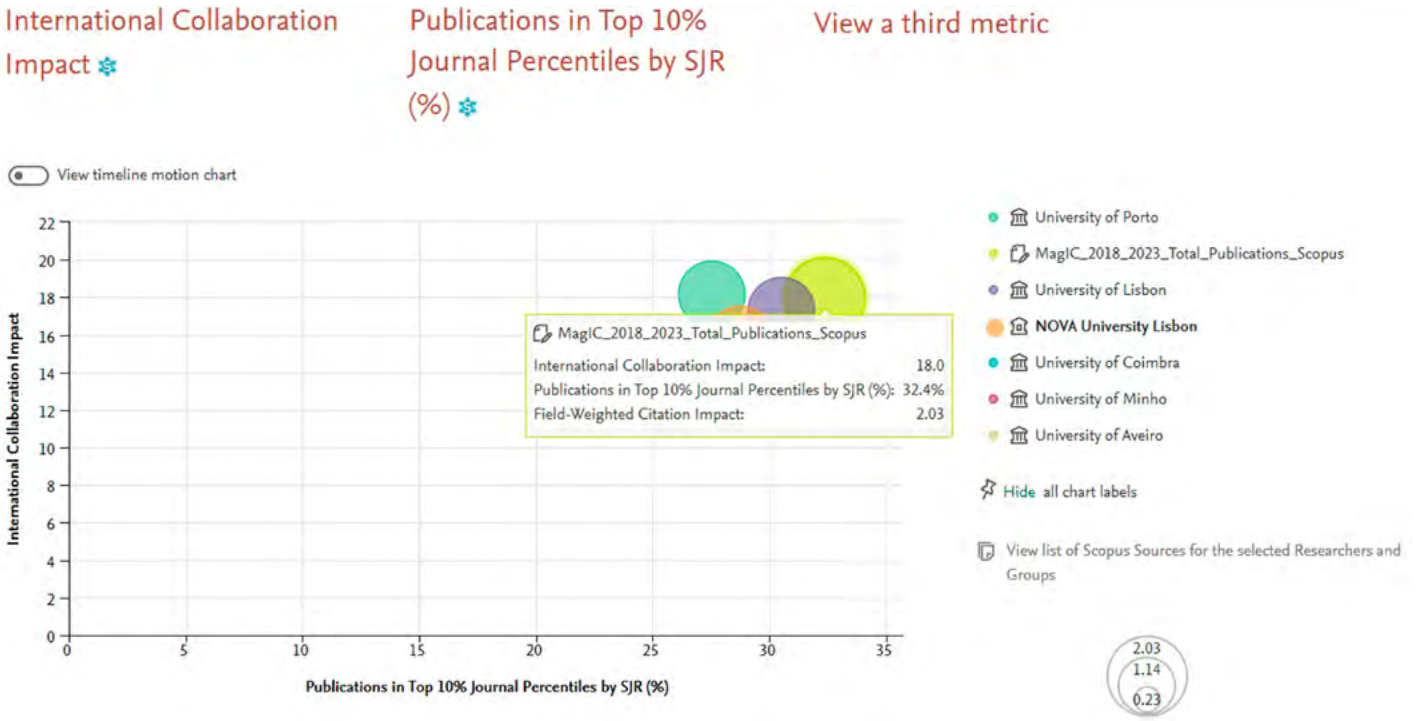


Among these indexed articles, in the last 5 years an average of 66,9% have been featured in 1st Quartile journals, per Scimago rankings. Additionally, 35,4% of these articles have earned publication in the prestigious 1st Decile journals. These achievements underscore the exceptional caliber of our research and its recognition within the scholarly community.

PUBLISHED INDEXED ARTICLES BY JOURNAL INDEX (SCIMAGO)



Notably, since 2020, there has been an upward trend in the number of articles published by MagIC in the 1st Decile, which denotes the highest level of prestige in the field. This fact demonstrates the center's strong focus on producing high-quality research and signifies its commitment to excellence.

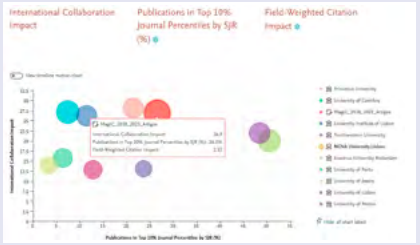


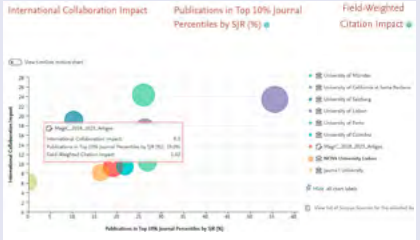
When analyzing the major Scopus research areas, MagIC's scientific articles consistently receive above-average citations. Specifically,

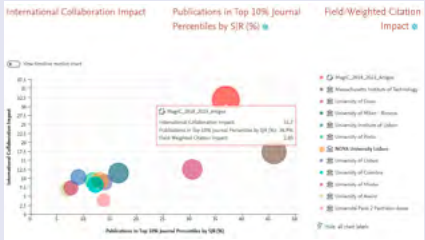
- in **Information Systems**, citations are **4.24 times higher** than the global average;
- in **Marketing**, **2.32 times higher**;
- in **Computer Science**, **2.80 times higher**; and
- in **Computers in Earth Sciences**, **1.02 times higher**, showcasing their significant impact and influence.

By consistently publishing in top-tier journals and achieving exceptional citation rates, MagIC reaffirms its dedication to cutting-edge research. It reinforces its position as a leading force in the Data Science and Information Management domain.

MAGIC'S BIBLIOMETRICS ANALYSIS USING SCIVAL







PUBLICATION RECOGNITIONS AND AWARDS

Over the past three years (2021-2023), Stanford University's prestigious World's Top 2% Scientists List has consistently recognized several NOVA IMS academics for their outstanding contributions.

2023

- Fernando Bação
- Jörg Henseler
- Leonardo Vanneschi (recognized for career-long impact)
- Manuela Aparicio
- Mauro Castelli
- Paulo Rita
- Tiago Oliveira

2022

- Aleš Popovič
- Fernando Bação
- Jörg Henseler
- Jorge Bravo
- Leonardo Vanneschi (recognized for career-long impact)
- Manuela Aparicio
- Mauro Castelli
- Paulo Rita
- Pedro Cabral
- Tiago Oliveira

2021

- Paulo Rita
- Leonardo Vanneschi
- Pedro Cabral
- Jörg Henseler
- Tiago Oliveira

The **NOVA IMS researcher Tiago Oliveira (primary affiliation) and Jörg Henseler (secondary affiliation)** were included in the prestigious **2021, 2022 and 2023 edition of the "Highly Cited Researchers" index**, an initiative by Clarivate Analytics that recognizes the most influential scientists worldwide, that rank in the **top 1% worldwide, by number of citations per field, in the Web of Science. There are only 20 academics in this exclusive coterie in Portugal.**

OUTPUTS OPEN TO AND FOR SOCIETY

OPEN ACCESS

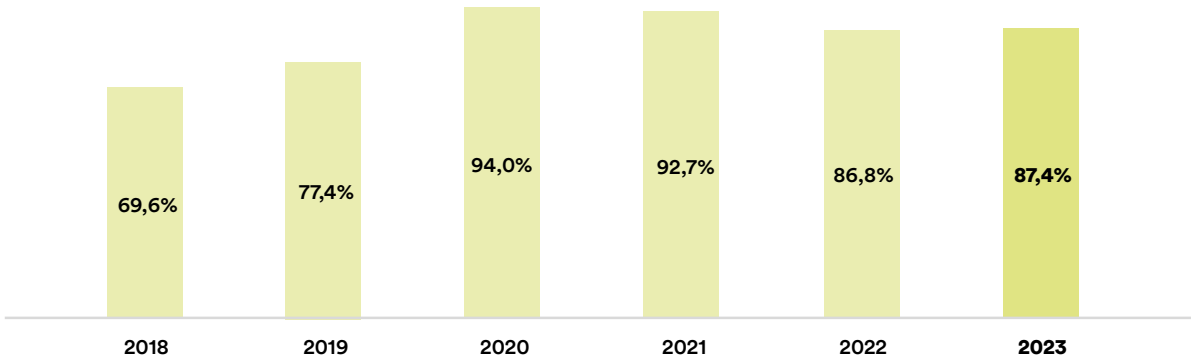
85%

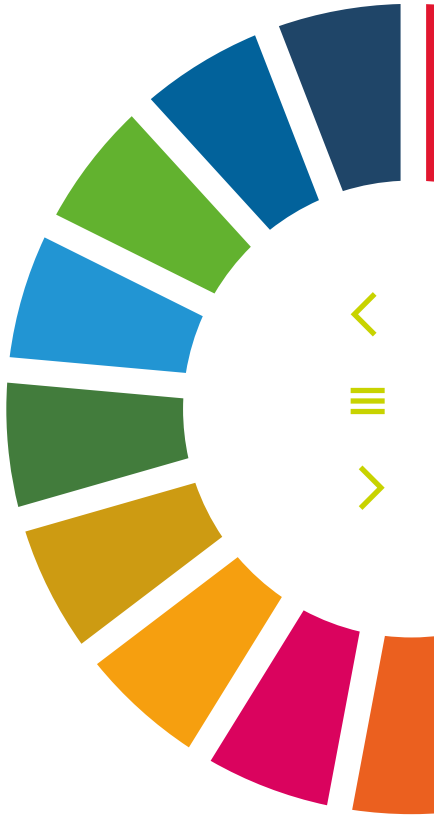
immediate open-access publications

At MagIC, we are dedicated to open science, ensuring accessible, inclusive, transparent, and discoverable research. From 2018 to 2023, 84,7% of our publications were open access, with no embargo. These publications can be readily accessed through our institutional repository RUN, fostering the dissemination of knowledge both among fellow researchers and the broader society.

Our commitment to open science drives us to assess and enhance the accessibility of our research outputs continuously. As such, we regularly review the open access status of our past years' research and take prompt action to ensure their availability in our repository. By prioritizing this process, we strive to make our research outputs promptly accessible to the broadest possible audience.

% OF PUBLICATIONS ON IMMEDIATE OPEN ACCESS

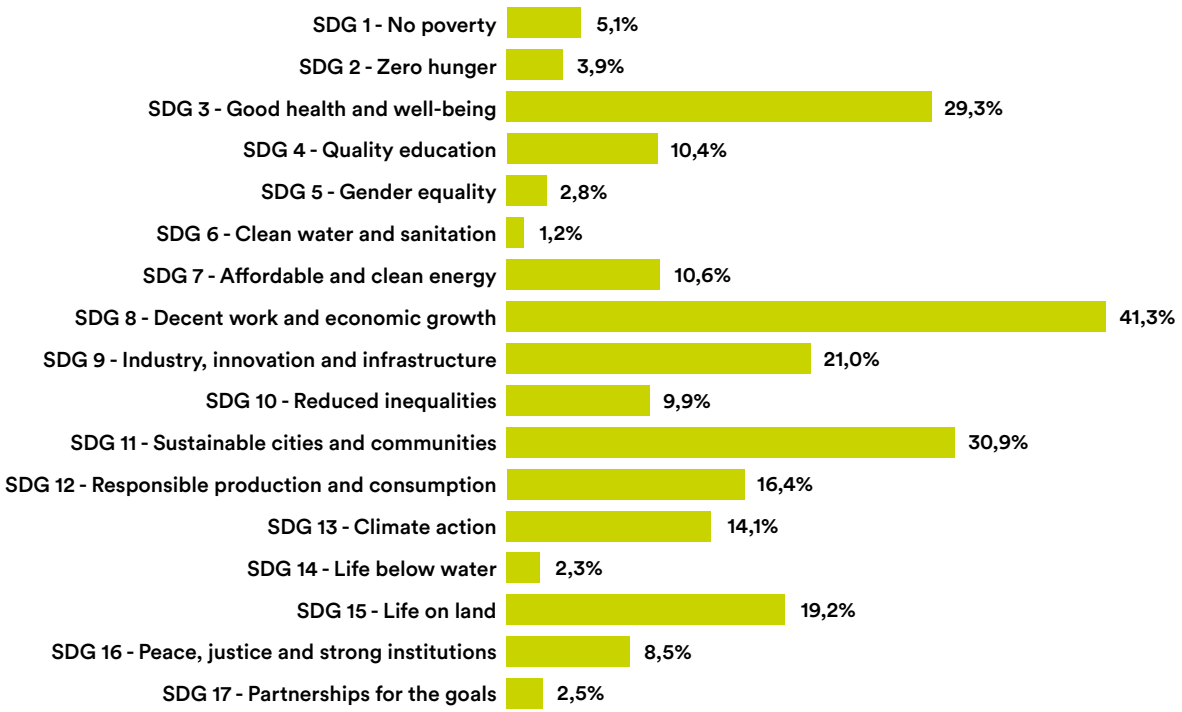




SUSTAINABLE DEVELOPMENT GOALS

MagIC's commitment to transparency and accessibility strongly aligns with the SDGs' call for inclusive participation and knowledge sharing to tackle global challenges. By aligning research publications with the SDGs, MagIC contributes to policy development, societal transformation, industry innovation, and global collaboration, ultimately driving sustainable development and addressing complex challenges faced by our world today.

PUBLICATIONS CONTRIBUTION TO THE SDGs (2018-2023)



Over the past five years, MagIC has prioritized its efforts toward addressing key Sustainable Development Goals (SDGs) related to economic growth, sustainable cities, and the health and well-being of life on land.

A complete list of the MagIC's publications from 2018 to 2023 can be found at the end of this report.

Spreading knowledge

SPREADING KNOWLEDGE

Science outreach plays a vital role in the scientific process, fostering public engagement and scientific literacy. It involves communicating our research, demystifying Data Science, and inspiring future generations of data researchers. At MagIC, we prioritize science outreach and actively engage with the public through a diverse range of events and outreach strategies. By utilizing various methods, we aim to effectively convey our work, create awareness, and ignite curiosity in the wider community.

+200
science outreach activities to the society

+160
communication and dissemination activities to academia

COMMUNICATION IN SCIENTIFIC CONFERENCES

MagIC researchers have demonstrably played a vital role in fostering knowledge exchange and collaboration within the scientific community, evidenced by their significant contributions to conferences:

- Organizing over 50 national and international conferences between 2018 and 2023, including ten prestigious Computer and Machinery ACM international conferences in Portugal.
- Leading the organization of several national focused conferences, such as in 2019 the Portuguese Association for Information Systems Conference.
- Hosting and organizing international and national conferences in our facilities, as, for example, the TECH-EDU 2022, the third edition of the International Conference on Technology and Innovation in Learning, Teaching and Education.

- And serving as local organizers for major international conferencesm such as the 2023 Genetic and Evolutionary Computation Conference (GECCO) held in Lisbon.

These conferences provided valuable platforms for scholars, practitioners, and experts to gather, share knowledge, and discuss cutting-edge advancements across diverse scientific fields.

Furthermore, MagIC researchers actively resumed in-person conference participation, attending over 160 national and international conferences. Their diverse and impactful contributions covered a wide range of scientific areas, further solidifying their reputation as leading figures in their respective fields.

TRAINING AND WORKSHOP FOR NON-SPECIALISTS

From 2018 to 2023, MagIC researchers consistently led the organization of over 10 training activities annually designed for non-specialists. These activities included workshops aimed at framing discussions around several topics, such as formulating an **innovation strategy for the Lisbon Metropolitan Area**, developing collaborative task forces to **explore smart tourism initiatives**, and a workshop focused on applying **gamification in online courses**. These initiatives empowered individuals from various backgrounds to participate in discussions actively, promoting informed decision-making and facilitating the exchange of ideas among a diverse range of participants.

SCHOOLS OUTREACH

MagIC's commitment to engaging with students and teachers in the Lisbon area continued, namely with the PAFSE project and by organizing a poster and small-projects' competitions focused on statistics for high school students in nearby schools.

12-15 years

MagIC researchers have played a significant role in the project by developing the "Preparedness to Public Health hazards: the Role of artificial intelligence" scenario, which is currently being implemented in several participating schools.

SCIENCE COMMUNICATION PROJECT HIGHLIGHT: PAFSE – PARTNERSHIPS FOR EDUCATION

MagIC actively collaborates in the PAFSE project, supported by Horizon 2020, focusing on community preparedness to reduce the risk of communicable diseases and epidemics. The project establishes partnerships between schools, universities, non-formal education providers, enterprises, and civil society organizations, enriching Science, Technology, Engineering, and Mathematics (STEM) education by incorporating public health issues. Through novel educational provisions, MagIC engages students aged 12-15 in public discourse events and a blend of formal and informal activities utilizing digital tools, online teaching-learning environments, and educational scenarios. These initiatives aim to develop students' competence in project management and collecting, analyzing, and interpreting scientific evidence.

MagIC researchers have played a significant role in the project by developing the "Preparedness to Public Health hazards: the Role of artificial intelligence" scenario, which is currently being implemented in several participating schools.

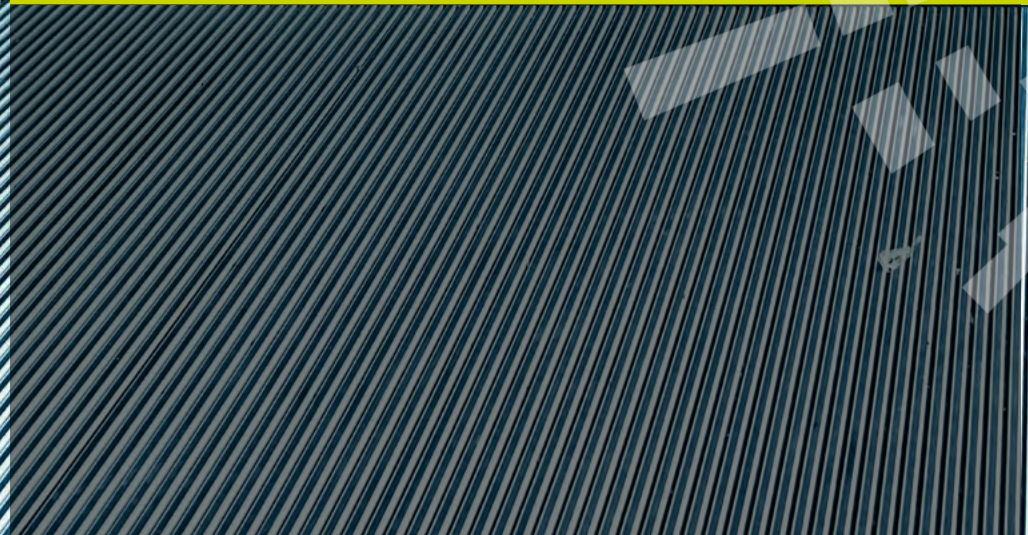
SCIENCE COMMUNICATION EVENTS AND MATERIALS

MagIC actively bridges research and the public through science communication. Annually, they participate in events like "NOVA Sustainability Week" and "Future Works Conference," sharing expertise. MagIC researchers organize open community events, inviting diverse participants to discuss Data Science's business applications. The "Data with Purpose Summit" in 2023 exemplifies this effort, featuring experts in data-driven decision-making.

Additionally, MagIC researchers contribute to media coverage, including articles, interviews, and TV appearances. Over recent years, MagIC produced two podcasts and various online videos, illuminating ongoing research and providing accessible insights on business, Data Science, and the societal impacts of artificial intelligence.

with purpose

Fostering capacity-building



FOSTERING CAPACITY-BUILDING

Capacity-building projects are highly relevant for the MagIC research center as they provide valuable opportunities for knowledge exchange, collaboration, and skill enhancement while **strengthening international networks and partnerships and fostering collaborative research endeavors**.

12
capacity-buidling projects

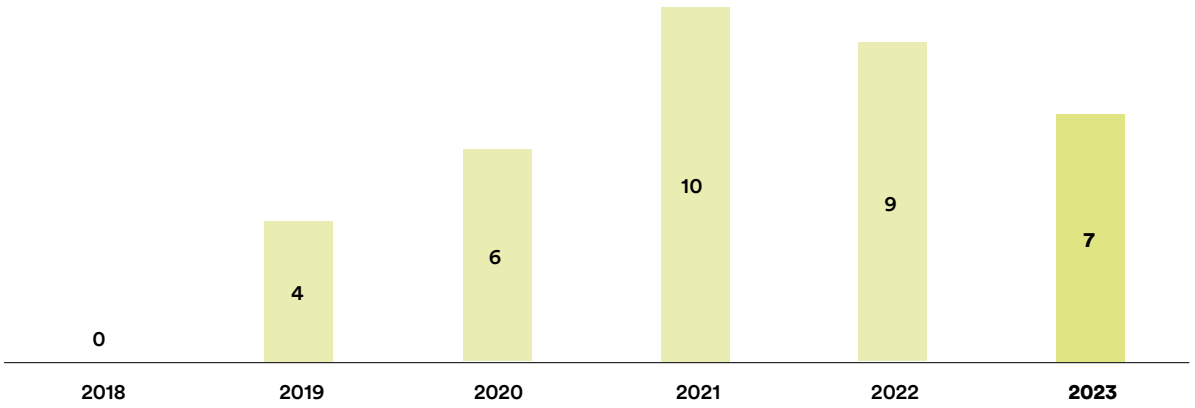
100%
competitive EU-funding

100%
international partnerships

CAPACITY-BUILDING PROJECTS

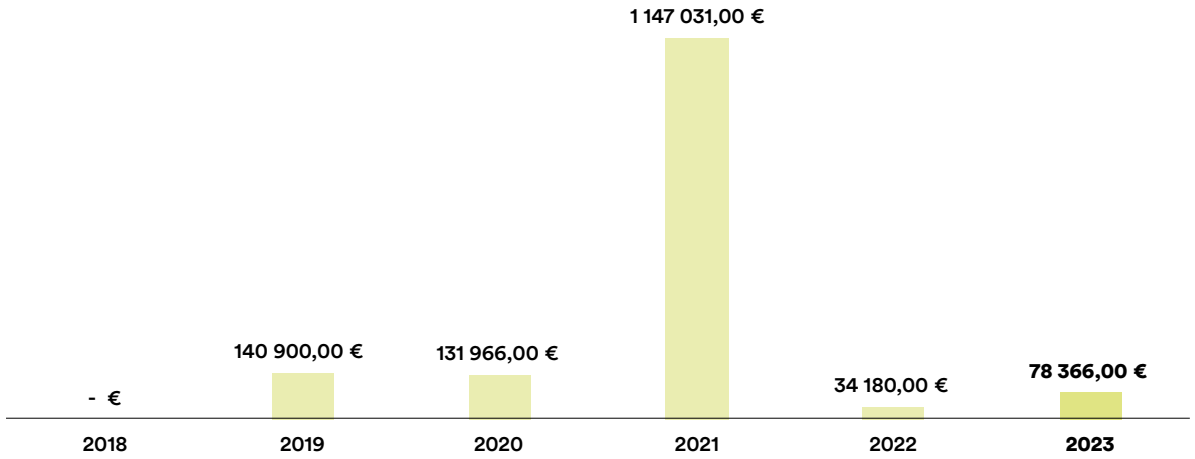
In the past five years, the MagIC research center hosted 12 capacity-building projects, all funded by competitive funding from the ERASMUS+ Programme. By participating in these projects, MagIC researchers engage with peers from diverse scientific disciplines, universities, and industries, creating a dynamic learning environment where cutting-edge techniques, best practices, and innovative ideas are shared. Through these projects, access to specialized training programs, workshops, and seminars ensures that MagIC stays up to date with the latest advancements and trends in the field.

NUMBER OF CAPACITY - BUILDING PROJECTS (2018-2023)



MagIC has consistently obtained funding for its capacity-building projects through competitive international calls. Its annual budget of approximately €100 000 was secured via the ERASMUS+ AK2 program for Cooperation and Innovation in the Exchange of Good Practices. Noteworthy among these achievements was the exceptional year of 2021, when MagIC was awarded funding for the Erasmus Mundus Joint Masters Program, specifically the Geotech: Master of Science in Geospatial Technologies. Over the period from 2018 to 2023, MagIC demonstrated its capability to secure a substantial total of €1 532 443 in funding for capacity-building projects.

AWARDED FUNDS FOR CAPACITY - BUILDING PROJECTS (2018-2023)



In 2022, we received funding for a new ERASMUS+ project, specifically focused on education for sustainability. This exciting endeavor further highlights our commitment to promoting sustainability education and equipping individuals with the knowledge and skills required to address global environmental challenges.

A complete list of the capacity-building projects hosted in MagIC from 2018 to 2023 can be found at the end of this report.

Empowering innovation: Nova Analytics Labs

EMPOWERING INNOVATION: NOVA ANALYTICS LABS

Developing innovation activities is an essential pillar of the MagIC research center, as it drives positive change, promotes economic growth, attracts talent, and establishes strong partnerships with industry. By embracing innovation, MagIC researchers can effectively translate research outcomes into real-world applications, making meaningful contributions to society and shaping a better future.

11
NOVA Analytics Labs

NOVA IMS has established eleven thematic and specialized laboratories that act as interfaces between our research excellence and external organizations. These laboratories foster collaborative projects, facilitating knowledge transfer in alignment with specific business needs.

By leveraging business and Data Science, these laboratories develop joint projects and generate impactful solutions, bridging the gap between research and practical applications, tailoring outcomes to meet business demands, and driving innovation.

NOVA data analytics lab powered by NOVA IMS

NOVA DATA ANALYTICS LAB: Advances the state-of-the-art in Machine Learning, Data Science, and Optimization, solving real-world problems and fostering the unification of Machine Learning paradigms.

NOVA information systems & analytics lab powered by NOVA IMS

NOVA INFORMATION SYSTEMS & ANALYTICS LAB: Promotes best practices in IT and IS value adoption, collaboration with leading technology players, and multidisciplinary research.

NOVA geoinformatics & analytics lab powered by NOVA IMS

NOVA GEOINFORMATICS & ANALYTICS LAB: Combines Geospatial Data Science, Geographic Information technology, programming, and human interaction to drive innovative solutions in institutional processes.

NOVA MARKETING ANALYTICS LAB: Generates impactful research in analytic and data-driven markets, utilizing neuromarketing, consumer behavior, and Data Science insights for academic and business contexts.

NOVA INNOVATION AND ANALYTICS LAB: Drives practical and innovative advancements by bridging quantitative and qualitative areas, facilitating understanding across various domains.

NOVA HEALTH & ANALYTICS LAB: Enhances the Health System through improved information access, resource optimization, collaboration, and innovation in decision-making.

NOVA CIDADE: URBAN ANALYTICS LAB: Collaboratively promotes applied knowledge transfer for intelligent cities, represented by a network of stakeholders and organizations.

NOVA DATA-DRIVEN PUBLIC POLICY LAB: Supports evidence-based policymaking with data-driven methodologies, enhancing transparency, impact assessment, and decision-making.

NOVA BUSINESS INTELLIGENCE & ANALYTICS LAB: Empowers efficient data management and objective decision-making through activities in Business Intelligence.

NOVA CENTER FOR GLOBAL HEALTH LAB: contributes to Portugal's insertion in international knowledge networks of governance, prevention, preparedness and resilience of health systems.

NOVA BLOCKCHAIN LAB: empowers the next generation of data-driven professionals with the knowledge and skills necessary to harness the transformative potential of blockchain.

Providing high-level Doctoral training in Information Management

PROVIDING HIGH-LEVEL DOCTORAL TRAINING IN INFORMATION MANAGEMENT

Contributing to NOVA IMS Doctoral Programme in Information Management is key to fostering the development of future researchers, promoting knowledge exchange, and enhancing MagIC's reputation as a hub of expertise for PhD training.

30 new PhD students enrolling every year

70 PhD students enrolled the annually

23 nationalities

49 theses defended from 2018 to 2023

DOCTORAL PROGRAM IN INFORMATION MANAGEMENT

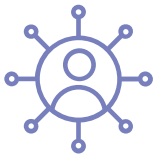
The Doctoral program provides advanced training through research, contributing to the progress of knowledge and training researchers, university teachers, and high-qualification professionals. The research may follow a more theoretical approach or be developed in an applied context, allowing knowledge transfer from academia to society. The main goal is to acquire:

- Solid scientific knowledge in an area of expertise;
- Ability to design and develop independent research according to international quality standards; the results must be of publishable quality for international journals;
- Communication skills for research and the academic community;
- Skills to manage innovation in academia, private enterprise, or public administration.

It provides advanced training through research, contributing to the progress of knowledge and the training of researchers, university teachers, and highly qualified professionals. The study cycle in Information Management is designed to include four areas:

- Data-Driven Marketing;
- Data Science;
- Geoinformatics;
- Information Systems.

The curricular component of the Doctoral program corresponds to 40 ECTS, of which 25 ECTS are in 3 mandatory course units and 15 ECTS in elective course units.



PHD THESIS IN 2018-2023

PhD student	Thesis	PhD supervisor
Adeoluwa Stephen Akande	Smart sustainable city assessment framework	Pedro Cabral, Sven Casteleyn, Edzer Pebesma
Afshin Ashofteh	Data Science for Finance: Targeted Learning from (Big) Data to Economic Stability and Financial Risk Management	Jorge Miguel Ventura Bravo
Alberto Acedo Sánchez	Place and city: merging our affective and social spatial dimension in the (smart) platial city	Marco Painho
Alessandro Re	Universal Genetic Programming: a Meta Learning Approach based on Semantics	Mauro Castelli, Leonardo Vanneschi
Ali Ahamed Puna Atumane	Geospatial Data for Sustainable Development in Mozambique: Challenges on Spatial Data Infrastructure Development & Ecosystem Service Integration in Decision Making	Pedro Cabral
Ana Carina Castagna	Scarcity Applications for Consumer Psychology: Increasing Pro-Social and Healthy Behaviour	Diego Costa Pinto
Ana Maria Bustamante Duarte	Participation & (Re)settlement : envisioning mobile services with young forced migrants	Christian Kray, Tiago Félix de Oliveira
André Figueiredo Barriguinha	GeoAI approach to Vineyard Yield Estimation	Miguel de Castro Neto, Artur José Freire Gil
António dos Anjos Luis	GIS Applications on the Essential Public Services in Mozambique	Pedro Cabral

(cont.)

PhD student	Thesis	PhD supervisor
Caetano Haberli Júnior	Understanding the determinants of evaluation, adoption and routinisation of ERP technology (Enterprise Resource Planning) in the context of agricultural farms	Tiago Félix de Oliveira
Carina Isabel Andrade Albuquerque	Object Detection in medical imaging	Roberto Henriques, Mauro Castelli
Catarina Costa Gervásio Neves Nunes	Understanding School Success: Drivers of Academic Achievement of Portuguese Public High School Students	Tiago Félix de Oliveira, Frederico de Jesus, Mauro Castelli
Diego Fabian Pajarito Grajales	Mobile services for green living	Michael Gould, Tiago Félix de Oliveira
Du Guiying	Supporting public participation through interactive immersive public displays	Christian Kray, Marco Painho, Oscar Belmonte Fernández
Frank Bivar Franque	Mobile Payment Continuance Intention	Tiago Félix de Oliveira, Carlos Tam Chuem Vai
Guilherme Hidalgo Barata Martins Victorino	Exploring the role of Design Thinking in Pedagogical Innovation rethinking teaching methods and learning spaces	Pedro Simões Coelho, Roberto Henriques
Ibrahem Hamdy Abdelhamid Kandel	Deep Learning Techniques for Medical Image Classification	Mauro Castelli
Illya Olegovich Bakurov	Soft computing for Ill Posed Problems in Computer Vision	Leonardo Vanneschi, Mauro Castelli, Raimondo Schettini
João Carlos Wiziack	ICC - Integrated Cognitive Competencies and Transformative Pedagogy for the incorporating of digital technology in educational processes	Vitor Duarte dos Santos, Mitsuru Yanaze
João Luís Ferrão	Characterising, modelling and mapping malaria occurrence and its mortality trend for precision public health	Jorge Morais Mendes, Marco Painho
João Pedro Martins Ribeiro da Fonseca	The Role of Synthetic Data in Improving Supervised Learning Methods: The Case of Land Use/Land Cover Classification	Fernando Bação
Jorge Manuel Carrola Rodrigues	Software-as-a-service enterprise applications impact in firm performance	Tiago Félix de Oliveira, Pedro Ruivo
Jorge Manuel Santos Freire Tavares	Electronic Health Record Portals Adoption by Health Care Consumers	Tiago Félix de Oliveira
Luis Alexandre Abrantes Madureira	Competitive Intelligence Science - Unified View, Modular Definition, Instruments, and Mindset	Mauro Castelli, Ales Popovič
Luis Fernando Santa Guzmán	A statistical approach for studying urban human dynamics	Roberto Henriques

(cont.)

PhD student	Thesis	PhD supervisor
Manuel Fernando Benitez Paez	A user-centric framework to improve the reusability of open geodata in cities	Joaquín Huerta Guijarro, Roberto Henriques
Manuel Portela	Geographies of empathy : affective reconfigurations of cities, objects & places	Carlos Granell-Canut, Vitor Duarte dos Santos
Marcos da Silva Lyra	Using Network Analysis to Map Public Procurement Activities in Ceará Municipalities (Brazil)	Flávio Pinheiro, Fernando Bação
Marek Smid	Climate change and impacts in the urban systems	Ana Cristina da Costa
Maria Inês Pastor Pereira da Silva	Applications of high-frequency telematics for driving behavior analysis	Roberto Henriques
Mehrnaz Ataei	Location data privacy : principles to practice	Christian Kray, Vitor Duarte dos Santos
Mijail Juanovich Naranjo Zolotov	Determinants of information and communication technologies for the online citizen participation adoption in urban contexts	Tiago Félix de Oliveira
Mohammad Mehdi Moradi	Spatial and spatio-temporal point patterns on linear networks	Jorge Mateu Mahiques, Ana Cristina Marinho da Costa
Nadine Evangelista de Pinho Côrte-Real	Unlocking the real business value of big data analytics: from insight to firm performance	Tiago Félix de Oliveira, Pedro Miguel Fernandes Ruivo
Nelson Adamo Cabá Amade	"A technology diffusion perspective of geographical information technology across Mozambican institutions"	Marco Painho, Tiago Félix de Oliveira
Ngo Manh Khoi	Studying user behavior through a participatory sensing framework in an urban context	Sven Casteleyn, Roberto Henriques
Pedro Arteaga Guerra	Modelling Decisions in Banking Supervision A Machine Learning Approach	Mauro Castelli, Nadine Pinho Côrte-Real
Rajchandar Padmanaban	A remote sensing approach to the quantification of local to global scale social-ecological impacts of anthropogenic landscape changes	Pedro Cabral, Avit K. Bhowmik
Ricardo António Dias Costa Carvalho Mendes	Understanding the drivers of academic achievement: Evidence for Portugal's high school system, a machine learning approach.	Tiago Félix de Oliveira, Mauro Castelli, Frederico de Jesus
Richard Chamboko	Advanced survival modelling for consumer credit risk assessment: addressing recurrent events, multiple outcomes and frailty	Jorge Miguel Ventura Bravo
Rita da Mata Graça Roquette e Silva	SECan - Spatial Epidemiology of Cancer. Data types, spatial aggregation and geographical patterns at mainland Portugal	Marco Painho
Roberto San Martin Hernaiz	Enhancing Geospatial Preparedness for Disaster Management through the work of development organisations	Marco Painho, Frederico de Jesus

(cont.)

PhD student	Thesis	PhD supervisor
Saleh Shuqair	How relationship norms affects consumers responses in sharing economy	Diego Costa Pinto
Sérgio Moisés Anguirai Niquisse	Serviços de ecossistemas em Moçambique: uma avaliação biofísica e monetária entre 2005 e 2025	Pedro Cabral
Shivam Gupta	Spatial modelling of air pollution for open smart cities	Edzer Pebesma, Ana Cristina da Costa
Sílvia Regina Machado de Campos	Brazilian Higher Education Analysis Through Knowledge Discovery: Annual and Temporal Approaches	Roberto Henriques, Mitsuru Higuchi Yanaze
Wilmar Audye Cidral	Determinants of E-learning success	Tiago Félix de Oliveira, Maria Manuela Aparício, Massimo Di Felice
Yuyang Zhao	Exploring user behaviours on mobile technologies combined with payment functions during the COVID-19 pandemic	Fernando Bação
Zélia de Jesus Calvário Raposo dos Santos	The importance of social media brand communities for brands of fast-moving consumer goods	Pedro Simões Coelho, Paulo Rita

Full list of R&I projects in 2018-2023

RESEARCH & INNOVATION PROJECTS IN 2018-2023

NATIONAL R&I PROJECTS

BINDER: Improving Bio-Inspired Deep Learning for Radiomics

Budget for NOVA IMS: € 80 175 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Leonardo Vanneschi**

2018/22

Deep Learning (DL) methods were leveraged in this project to address challenges in the emerging field of radiomics. Radiomics aims to extract valuable features from standard medical images to enhance predictive power in precision medicine. However, many radiomics workflow phases lacked automation, leading to time-consuming, subjective, and error-prone processes. This project aimed to develop faster, more objective, and accurate radiomics models. These models could then be used to personalize treatment options, potentially reducing patient toxicity and improving clinical outcomes.

ASEBIO: Assessment of Ecosystem Services and Biodiversity in Portugal

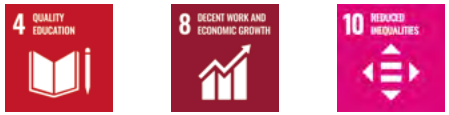
Budget for NOVA IMS: € 207 647,58 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Pedro Cabral**

2018/22

The ASEBIO project aimed to assess and map ecosystem services (ES) and their vulnerability across mainland Portugal. Using land cover data (1990-2018), the project quantified the impacts of different land-cover change scenarios on selected ES for 2040, considering potential policy changes. By valuing the economic costs of ES deterioration and proposing a well-being indicator, ASEBIO aimed to inform future land management policies for a sustainable future.

DS4AA: Understanding the drivers of academic achievement: evidence for Portugal's high school system



Budget for NOVA IMS: € 157 737,50 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Tiago Oliveira**

2019/22

Presently, school dropout, which is one of the most common forms of school failure, is 14% in Portugal, well above the 10,7% of the European average. This project intended to explore the antecedents of academic achievement (AA) at a national scale in Portugal, using public high-school students' microdata. Multiple measures of AA were planned for use: final year and individual course grades, pass/fail status, and teachers' (written) notes on behavior and assiduity.

IPSTERS (IPSentinel Terrestrial Enhanced Recognition System)

Budget for NOVA IMS: € 44 450,00 | **FCT, I.P.**

NOVA IMS role in the project: Partner | **PI: Fernando Bação**

2019/21

The main goal of this project was to explore the applications and limitations of artificial intelligence (AI) algorithms with accelerated processing hardware capabilities. This exploration aimed to integrate AI as a unit of the IPSentinel system, enabling it to digest large volumes of remotely sensed data and produce level-3 products for land applications with minimal human intervention.

GADgET: Online gambling addiction detection

Budget for NOVA IMS: € 146 043,75 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Mauro Castelli**

2019/22

The objective of this project was to implement an AI (Artificial Intelligence)-based system. This system aimed to capitalize on the vast amount of data collected daily and analyze online user behavior to model and detect behaviors associated with addicted gamblers. Successful implementation of the system and its integration with the existing system used by the gambling control authority would have enabled efficient modeling and detection of online user behaviors associated with gambling addiction.

FoRESTER - Data fusion of sensor networks and fire spread modelling for decision support in forest fire suppression

Budget for NOVA IMS: € 33 393,75

FCT, I.P.

2019/23

NOVA IMS role in the project: Partner

PI: Fernando Bação

foRESTER aimed to provide fire managers with useful and sound information to improve fire suppression strategies and decisions. To accomplish this, the project proposed a fast, reliable, and informative Decision Support System (DSS) based on advanced computational intelligence and visualization techniques. This system integrated innovative technologies from multi-sensor systems, cutting-edge satellite image processing, and near real-time (NRT) fire spread predictions (FSP).

CNCS - National Cybersecurity Centre - Service for the Extended Management of Situational and Operational Knowledge of National Cyberspace

Budget for NOVA IMS: € 20 000,00

AMA - Agência para a Modernização Administrativa I.P.

2019/21

NOVA IMS role in the project: Coordinator

PI: Roberto Henriques

The CNCS project aimed to enhance national cybersecurity by developing a service to manage knowledge extracted from collected security data. This involved utilizing artificial intelligence to analyze and model the data, improving security management and identifying emerging trends. By establishing predictive rules, the project aimed to proactively identify and anticipate potential threats. The project designed, prototyped, and implemented a comprehensive model for operational use within the CNCS, ultimately strengthening national cybersecurity capabilities through improved threat detection and mitigation strategies.

MapIntel: Interactive visual analtics plataform for competitive intelligence

Budget for NOVA IMS: € 211 252,77 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Fernando Bação**

2019/23

This project explored the application of Competitive Intelligence (CI) through a novel neural network-based document clustering system. This system, acting as a genuine content-addressable memory, aimed to improve strategic decision-making by clustering and storing text documents for content-based retrieval.
The research focused on using Self-Organizing Maps (SOMs) to map documents as points on a semantic map. This map, representing the documents' thematic relationships, served as a foundation for an interactive visual analytics tool. This tool allowed users to explore the corpus through different correlated views, facilitating iterative document selection and examination – a valuable innovation for enhancing CI activities.

AICE: Data Science and Over-Indebtedness: Use of Artificial Intelligence Algorithms in Credit Consumption and Indebtedness Conciliation in Portugal

Budget for NOVA IMS: € 239 243,75 | **FCT, I.P.**

NOVA IMS role in the project: Coordinator | **PI: Leonardo Vanneschi**

2020/22

This project investigated the application of Machine Learning (ML) to understand the factors influencing over-indebtedness in Portuguese consumers by developing descriptive and predictive models. Employing unsupervised ML algorithms like Self-Organizing Maps (SOMs) and Agglomerative Hierarchical Clustering, the project aimed to 1) Identify distinct consumer clusters based on their debt patterns; 2) Inform the development of regulations addressing over-indebtedness, and 3) Empower consumers through improved financial literacy and guidance.

City Catalyst: a catalyst for sustainable cities

Budget for NOVA IMS: € 189 543,48

Agência Nacional de Inovação, ANI.

2020/23

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The CityCatalyst project aimed to investigate, develop, and validate – in a real-world context – 21 innovative products and services. These advancements targeted enhancing integrated urban management, acting as a catalyst for sustainable development and potentially creating an impact at the scale of major global cities.

Data4Covid19

Budget for NOVA IMS: € 89 576,09

Agência Nacional de Inovação, ANI.

2020/21

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The Data4Covid19 Project contributed to a series of measures aimed at enhancing the creation of a program supporting the use of information technologies in healthcare. This project specifically focused on improving the country's capacity to 1) Monitor health, and 2) Prevent, detect, and treat the disease through innovative methods. Furthermore, the project explored the potential for developing services that align with new smart care models. This could enable individuals to stay in their homes while promoting autonomy and personal responsibility in adopting healthy lifestyles.

C-Tech: Climate Driven Technologies for Low Carbon Cities

Budget for NOVA IMS: € 495 865,42

Agência Nacional de Inovação, ANI.

2020/23

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The C-Tech project explored, developed, and validated, at a pilot scale, a digital smart city platform for urban modelling and planning. This platform utilized a three-dimensional city representation combined with diverse data sources, such as climate, energy and water consumption, mobility, and user behaviour gleaned from mobile phone usage. Through simulations, the platform aimed to assist local authorities in exploring various scenarios focused on building energy efficiency, green infrastructure implementation, and urban mobility optimization. Ultimately, this research aimed to empower local authorities with the tools to identify and effectively address specific environmental issues, leading to a reduced carbon footprint.

BEE2WasteCrypto

Budget for NOVA IMS: € 388 966,00

Agência Nacional de Inovação, ANI.

2020/22

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The project investigated the potential of a novel IT tool to empower Regional Waste Management Utilities in their multifaceted roles. This research focused on developing and testing an innovative solution to 1) Support the design and management of decentralized and customized waste solutions, and 2) Promote new citizen behaviors related to waste generation and handling.
By exploring the potential of this technology, the project aimed to add value by enhancing the capabilities of Regional Waste Management Utilities and facilitating positive behavioural changes among citizens, ultimately contributing to more efficient and sustainable waste management practices.

PLANO-A-SAUDE

Budget for NOVA IMS: € 59 699,48

Agência Nacional de Inovação, ANI.

2020/21

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The COVID-19 pandemic highlighted the importance of telehealth solutions to mitigate the impact of physical distancing on healthcare delivery. The PLANO-A project aimed to develop and evaluate a telehealth platform to monitor and support patients with COVID-19 and chronic diseases. The platform leveraged advanced digital interfaces to facilitate information sharing between patients and healthcare providers. It also provided diagnostic and decision-making tools to support healthcare professionals. By utilizing the platform, the project aimed to: 1) Maintain the continuity of care for patients during the pandemic, 2) Improve the quality of services provided by the National Health Service (NHS), and 3) Empower patients to actively participate in their healthcare journey. The PLANO-A project's research focused on evaluating the platform's effectiveness in improving healthcare delivery and patient outcomes.

SMART REGION - Smart Region Integrated Territorial Intelligence Analytical Platform

Budget for NOVA IMS: € 999 843,00

AMA - Agência para a Modernização Administrativa I.P.

2020/21

NOVA IMS role in the project: Coordinator

PI: Miguel de Castro Neto

Smart Region project from NOVA IMS conceived and tested a framework that could foster data-driven local public policies in their different stages, where interventions are grounded on facts using data and processing capacities integrated in an analytical platform, with automatic updating. This platform integrates data from multiple sources, namely from municipalities and external entities, that allows presently the adoption of an analytical approach in regional planning, along with the creation of new products and services for citizens of the 12 municipalities of the Intermunicipal Community of Oeste (CIM Oeste). Leveraged by the integrated data infrastructure that was built, it was possible to develop several dynamic reports and dashboards to produce a deeper understanding of the region metabolism and use that knowledge to identify the opportunities and challenges faced by the local authorities, with the information regarding economic, social and environmental impact, aligned with the Sustainable Development Goals. All these reports were then embedded in the Smart Region platform where access can be granted to mayors, municipal technical services, and citizens in general.

MARia- Integrated platform for the development of artificial intelligence models for the sea

Budget for NOVA IMS: € 387 848,70

AMA - Agência para a Modernização Administrativa I.P.

2021/23

NOVA IMS role in the project: Coordinator

PI: Miguel de Castro Neto

Project MarIA took an innovative approach to the marine sector by harnessing the power of big data and existing infrastructure. The project aimed to establish a national data governance model and foster collaboration through a dedicated platform, MarIA. This platform is now acting as a central hub for data collection, analysis, and knowledge sharing, facilitating the creation of a data and science intelligence center and information products and services tailored to various stakeholders.
Project MarIA also included a capacity-building and innovation program aimed at empowering stakeholders through training and support. This program fostered the co-creation of novel data-driven solutions and potentially led to the development of innovative startups within the marine sector. It's main goal was to establish a robust framework and promote collaboration for the ultimate benefit of the marine sector, both economically and environmentally.

New solutions to old constraints

Budget for NOVA IMS: € 138 618,88

Agência para o Desenvolvimento e Coesão, IP

2021/22

NOVA IMS role in the project: Coordinator

PI: Pedro Simões Coelho

This research project explored the potential of Data Science to improve the monitoring and evaluation of community funds in Portugal. It aimed to develop and test innovative tools and methodologies that push the boundaries of technical and scientific knowledge, particularly in the context of national practice. Specifically, the project focused on: 1) Developing and testing tools and methodologies for monitoring public policies related to community funds; 2) Harnessing the potential of technology and Data Science to analyze and assess the impact of these funds; 3) Utilizing existing databases from various sources, including the Coordinating Authorities, Managing Authorities, public entities, and the national statistical system, and 4) Addressing the challenge of interoperability between different systems to ensure seamless data exchange and analysis.
By tackling these objectives, the project aimed to contribute to the creation of more effective and efficient monitoring and evaluation systems for community funds in Portugal. This, in turn, would support better decision-making and resource allocation, ultimately leading to a more successful and impactful utilization of these funds.

Data Science for evaluating operating errors and their impact

Budget for NOVA IMS: € 139 211,29

Agência para o Desenvolvimento e Coesão, IP

2021/22

NOVA IMS role in the project: Coordinator

PI: Pedro Simões Coelho

This research project delved into the development of novel Data Science-driven methodologies, including techniques in artificial intelligence. The goal was to accurately estimate and predict the frequency and financial impact of errors within operational programs backed by European funds in Portugal. Ultimately, the project intended to pioneer these innovative methodologies to either replace or seamlessly complement the conventional approach of sample-based operation audits.

MaSOT: Mapeamento de Serviços de Ecossistema a partir de Observações da Terra [Monitoring Ecosystem Services from Earth Observation]

Budget for NOVA IMS: € 49 999,37

Fundação para a Ciência e Tecnologia, I.P.

2022/23

NOVA IMS' role in the project: Coordinator

PI: Pedro Cabral

MaSOT endeavored to estimate ecosystem services (ES) through the utilization of satellite earth observation (SEO) data in Mainland Portugal. The approach was designed to extend the ES concept, incorporating the influence of spatial characteristics in ES bundles for a more precise estimation compared to traditional methods. For the first time in Portugal, a baseline scenario was established to assess temporal changes in ES based on SEO. The outcomes facilitated the characterization of ES for various purposes, including biodiversity conservation and sustainable management of ecosystem services.

CityMe: Mapeamento de Regiões na Cidade a partir das Perceções dos Cidadãos [Mapping Regions in the City from Citizens´ Perceptions]

Budget for NOVA IMS: € 49 619,41

Fundação para a Ciência e Tecnologia, I.P.

2022/23

NOVA IMS' role in the project: Coordinator

PI: Marco Painho

The CityMe project aimed to create a framework for mapping, exploring, and analyzing official and non-official neighborhoods, regions of interest, districts, and other areas that constituted people's mental maps of the city. By harvesting data from our map-based application and social media platforms, the project sought to better understand how citizens spatially reasoned about administrative and non-administrative regions in the urban landscape, such as parishes, residential areas, informal neighborhoods, historical centers, and commercial areas.

MozambES: Payments for mangrove ecosystem services in Mozambique

Budget for NOVA IMS: € 41 099,28

Fundação para a Ciência e Tecnologia, I.P.

2022/25

NOVA IMS' role in the project: Partner

PI: Pedro Cabral

Mangroves represent distinctive ecosystems that offer crucial advantages to impoverished populations in coastal regions. Mozambique, an area susceptible to environmental disasters, possesses 2,3% of the world's mangrove coverage. The combination of low income and a heavy dependence on natural resources hampers the local populations' capacity to confront environmental challenges, rendering this region particularly susceptible. The project aims to evaluate the economic value of mangrove ecosystem services in Mozambique and assess the ecological and socioeconomic impacts through a field experiment implementing Payments for Ecosystem Services (PES).

ATT Agenda - Accelerating and Transforming Tourism

Budget for NOVA IMS: € 609 657,41

Plano de Recuperação e Resiliência (PRR)

2023/25

NOVA IMS' role in the project: Partner

PI: Miguel de Castro Neto

The project aims to develop and implement an advanced and innovative concept of "Customer Journey" with disruptive and innovative solutions focused on selected aspects throughout the tourist experience. The objectives include: 1. Enhancing the overall perspective of the tourist experience in Portugal (Customer Journey); 2. Increasing levels of innovation, digitalization, and sustainability; 3. Transforming the productive fabric in Tourism through (i) qualification of human resources; (ii) promotion of skilled employment; (iii) enhancement of productivity; 4. Facilitating knowledge transfer among entities possessing technical-scientific knowledge, technological partners, and end-users, fostering cooperation and distribution; 5. Boosting the competitiveness of the Tourism sector and improving Portugal's global position.

Augmented Agriculture and Sustainability - Exploring the potential of augmented and virtual reality in Agriculture 4.0

Budget for NOVA IMS: € 288 010,39

Plano de Recuperação e Resiliência (PRR)

2023/25

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The project aims to create a Development, Demonstration and Training Hub that will enable the widespread adoption of digital and sustainable agriculture, regardless of the size of farms, through the adoption of augmented and virtual reality technologies. Benefiting from the experience of its partners, this Hub aims to present itself as a benchmark for the sector, contributing to the development of digitalisation in agriculture through the demonstration, dissemination and training of technologies that enable a more digital agriculture.

AI4PA Portugal: Artificial Intelligence & Data Science for Public Administration Portugal Innovation Hub

Budget for NOVA IMS: € 1 210 984,51

Plano de Recuperação e Resiliência (PRR)

2023/25

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The AI4PA Digital Innovation Hub aims to optimize public policies across governance areas through innovative digital solutions based on Artificial Intelligence and Data Science. This center supports digital transformation in state intervention areas by developing services, enhancing skills, and promoting ethical technology impacts. The project focuses on six strategic areas to advance the digital transformation of national and European public administration.

BLOCKCHAIN PT: Agenda "Decentralising Portugal with Blockchain"

Budget for NOVA IMS: € 790 624,00

Plano de Recuperação e Resiliência (PRR)

2023/25

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

The "Decentralise Portugal with Blockchain" Agenda seeks to establish a national blockchain industry, recognizing its pivotal role in innovation. With 56 participating organizations, the project focuses on six verticals and four horizontals, channeling over €72 million in investments. The collaborative effort aims to launch 26 products, positioning Portugal as a European leader in blockchain, fostering digital, green, and resilient advancements.

+ValorCer - Research and innovation agenda for the sustainability of agriculture, food and agro-industry

Budget for NOVA IMS: € 149 880,56

Plano de Recuperação e Resiliência (PRR)

2023/25

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

This project is focused on improving Portugal's cereal sector. It aims to 1) Promote quality and traceability within the sector, aligning with the "National Strategy" and achieving a 40% supply level, 2) Identify key areas for improvement within production organizations, emphasizing the dual green and digital transition, and 3) Contribute to a more sustainable food trade balance across economic, social, and environmental aspects. By achieving these goals, the project is seen as fundamental to modernizing the cereal sector. This modernization, including improvements to national production, is considered essential to increasing the competitiveness of Portuguese producers and their organizations in the global market.

STEPS@NOVA: Student Tracking for Enhanced Performance and Success at NOVA

Budget for NOVA IMS: € 299 955,50

DGES - Direção-geral do Ensino Superior

2023/24

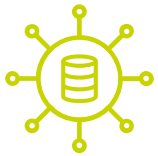
NOVA IMS role in the project: Partner

PI: Roberto Henriques

Steps@NOVA focuses on improving academic success and reducing dropout rates for first-year undergraduates at UNL. Objectives include analyzing phenomena, developing predictive models, implementing integration mechanisms, fostering success, introducing innovative practices, and establishing collaborative spaces. NOVA IMS collaborates with NOVA SBE on dropout and success characterization, leading data analysis and predictive modeling. Utilizing advanced techniques, including Decision Trees and Neural Networks, enhances our ability to predict outcomes, informing tailored intervention strategies for academic success.

INTERNATIONAL R&I PROJECTS

HARP: Heating Appliances Retrofit Planning



Budget for NOVA IMS: € 72 938,63

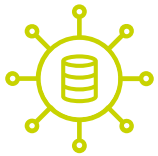
European Commission - Horizon 2020

NOVA IMS role in the project: Partner

PI: Tiago Oliveira

HARP accompanied the consumer decision process by providing an impartial message based on the energy label. The system presented market solutions that aligned with the consumer's heating needs, offering a quantified approach to both economic and non-economic benefits. This approach aimed to bridge the gap between consumers, market providers, and available national incentives.

UCD Lab: Urban Co-creation Data Lab



Budget for NOVA IMS: € 347 563,82

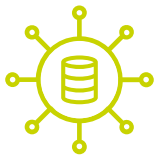
European Commission - Connecting Europe Facility - CEF

NOVA IMS role in the project: Coordination

PI: Miguel de Castro Neto

The overall objective of this action was to support decision-making at the municipal level. By doing so, the project aimed to provide citizens with high-quality services in areas such as security, emergency response, operational management, and urban planning. This was achieved through the development of a new generation of public services in the context of smart cities. This involved utilizing supercomputing facilities and analyzing complex combinations of large public and private datasets in areas of public interest.

TwinERGY: Intelligent interconnection of prosumers in positive energy communities with twins of things for digital energy markets



Budget for NOVA IMS: € 313 591,25

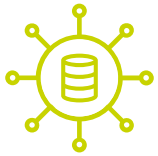
European Commission - Horizon 2020

NOVA IMS role in the project: Partner

PI: Tiago Oliveira

TwinERGY enables positive changes on how citizens and communities consume energy by empowering them to track their energy use and to proactively participate in the market.A revolution in the energy ecosystem is possible. We raise awareness about consumption patterns and foster more sustainable energy behaviours, thus contributing to build a greener and inclusive energy market

PAFSE: Partnerships for science education



Budget for NOVA IMS: € 46 875,00

European Commission - Horizon 2020

NOVA IMS role in the project: Partner

PI: Vítor Santos

The PAFSE project is engaging schools, universities, enterprises, and non-formal education providers in building science clusters to boost young people's awareness of public health challenges, protective factors, and patterns of risky behavior. It emphasizes the role they can play in their community preparedness. School-based activities are contributing to students' and citizens' literacy concerning public health threats that require concerted action, with a focus on epidemics. Educational provisions include challenges such as child obesity, chronic illness, climate change, and vaccine hesitancy.

TwinAIR: Digital Twins Enabled Indoor Air Quality Management for Healthy Living

Budget for NOVA IMS: € 273 375,00

European Commission - Horizon Europe

2022/26

NOVA IMS' role in the project: Partner

PI: Tiago Oliveira

The EU-funded TwinAIR project is currently investigating indoor air quality and its correlation with external factors. The project aims to introduce innovative tools for identifying and tracing pollutants and pathogens, enhancing the understanding of their effects and assessing their impact on health. The primary objective is to improve the quality of life in cities. These tools will enable the control of building management systems and services, empowering citizens to gain better insights into pollution impacts. Additionally, they will assist transport planners, facility managers, and policymakers in developing effective interventions to mitigate the health effects of air pollution. The project will conduct demonstrations in residential and public buildings, hospitals, vehicles, and schools across six European pilot sites. TwinAIR actively participates in the European cluster on indoor air quality and health.

RM Roadmap: Creating framework conditions for Research Management to strengthen the European Research Area

Budget for NOVA IMS: € 166 998,57

European Commission - Horizon Europe

2022/25

NOVA IMS' role in the project: Partner

PI: Cristina Oliveira

The RM ROADMAP is currently in the process of creating a roadmap for future research management (RM) in Europe along with a community to support its implementation. The primary goal of RM ROADMAP is to identify and adapt the research management capital base of the EU, including widening countries, to meet the emerging needs of its current and future research management workforce. This adaptation is aimed at improving the EU's competitiveness, sustaining its economic performance, and enhancing access to scientific excellence. The overarching objective is to ensure that the research management landscape aligns with evolving requirements to contribute effectively to the EU's scientific and economic advancements.

DE-RISK the adoption of Local Flexibility Markets to unlock the safe and reliable mass deployment of Renewable Energy Systems

Budget for NOVA IMS: € 264 463,00

European Commission - Horizon Europe

2022/25

NOVA IMS' role in the project: Partner

PI: Tiago Oliveira

DE-RISK is currently aiming to support the market uptake of renewable energy systems by fostering the adoption of Local Flexibility Markets and unlocking up to 100GW of flexibility by 2030. This initiative is crucial for ensuring a safe and reliable integration of Renewable Energy Systems into the grid. The project is actively working towards this ambitious objective by minimizing investments and implementation risks through an innovative customer behavior change journey. This approach seeks to increase end users' trust and willingness to participate in flexibility markets. DE-RISK is integrating building, citizen, and grid digital twins within its flexibility platform, effectively reducing the gap between simulation and actual implementation. This integration is instrumental in mitigating potential technical risks during the deployment and operational phases of the project.

Use of artificial intelligence in the audit of EU Funds

Budget for NOVA IMS: € 448 720,55

Technical Support Instrument (TSI)

2022/24

NOVA IMS' role in the project: Coordinator

PI: Pedro Simões Coelho

The project is currently developing and applying innovative methodologies, specifically incorporating Data Science and artificial intelligence into the audits of EU Funds. The primary aim is to enhance the efficiency of detecting errors, cases of suspicion of fraud, and other irregularities in EU funds.
As part of its objectives and activities, the project is working towards fostering a better utilization of data already available in public administration. It seeks to adopt an audit framework and management strategies resulting from the developed methodologies. Additionally, the project is focused on increasing the proportionality of audits, aiming to reduce the burden on beneficiaries. This reduction is achieved by partially substituting audits with analytical activities that have a smaller impact on the beneficiaries. A key overarching goal is to contribute to the promotion of energy citizenship and energy communities.

AI4IA@EU - Artificial intelligence for better regulation at the EU

Budget for NOVA IMS: € 359 138,01

Funded by Technical Support Instrument (TSI)

2022/23

NOVA IMS role in the project: Coordination

PI: Pedro Simões Coelho

The current project is aimed at providing support for the development of a new approach for impact assessments of national and transposed EU legislation, utilizing new technologies, particularly Artificial Intelligence (AI). The incorporation of AI in the legislative process is expected to facilitate a quicker comparison between existing and new legislation, enhance legal certainty regarding legislative proposals, and contribute to the reduction of administrative burdens on citizens and businesses.
The main objectives and activities of the project include contributing to a more efficient and less time-consuming impact assessment exercise. This involves enabling a faster comparison between legislative proposals or between a proposal and existing legislation. Additionally, the project aims to contribute to a more transparent legislative process by improving legal certainty. It also seeks to facilitate analyses of national and transposed EU legislation to identify overlapping obligations for businesses or citizens. The overarching goal is to leverage AI to streamline the impact assessment process and enhance transparency in the legislative domain.

Digital4Business: Masters Programme focused on the practical application of Advanced Digital Skills within European Companies

Budget for NOVA IMS: € 1 232 854,00

Digital Europe Programme

2022/26

NOVA IMS' role in the project: Partner

PI: Roberto Henriques

Digital4Business stands as a novel European master's program concentrated on the practical application of advanced digital skills within European SMEs and companies. The program is designed to assist businesses in achieving long-term competitiveness and growth through digital transformation and innovation. NOVA IMS, the school of Data Science at the Nova University of Lisbon, plays a significant role in this initiative. With an enrollment of over 3 000 students, including undergraduates, postgraduates, masters, and PhD degree students, NOVA IMS is committed to providing education at the highest level.
In our active participation in the Digital4Business Project, we take a proactive role in creating collaborative programs and modules. Our emphasis is on incorporating active learning methodologies and integrating teaching best practices to ensure a more effective learning experience for students involved in the program

COMMUNITAS: Bound to accelerate the roll-out and expansion of Energy Communities and empower consumers as fullyfledged energy market players

Budget for NOVA IMS: € 274 500,00

European Commission - Horizon Europe

2023/26

NOVA IMS role in the project: Partner

PI: Miguel de Castro Neto

COMMUNITAS will promote energy citizenship, enabling citizens to take control of their own path towards sustainability by becoming an active element of the energy markets.
The project will deliver a Knowledge Base that will provide users with technical, administrative, and legal information on ECs, streamlining the creation and expansion of this concept.
COMMUNITAS will also deliver an innovative set of tools - capitalizing on technologies such as IoT, Blockchain and Cloud Computing - to unlock citizens' active participation in energy markets and communities (all integrated into an open, digital "one-stop-shop" COMMUNITAS Core Platform (CCP)), allowing EC members to have an aggregated position in the energy markets or explore ancillary services using different energy assets or load profiles of the community.
As a project that aims to position citizens in the centre of energy markets, COMMUNITAS has citizens at the centre of its approach: citizens will be involved in Social and Policy Labs throughout the whole project, to frequently factor in their feedback, wishes, needs into the core developments of the project.

FARCLIMATE: Moving ForwARd to achieving CLIMATE-resilient and sustainable European regional economic systems

Budget for NOVA IMS: € 333 125,00

European Commission - Horizon Europe

2023/27

NOVA IMS role in the project: Partner

PI: Tiago Oliveira

FARCLIMATE aims to enhance climate resilience in European regions through engaging stakeholders, establishing Living Labs, researching value chains, and implementing innovative solutions in agriculture, forestry, and fisheries. NOVA IMS leads the assessment of consumer behavior and empowerment, exploring factors influencing acceptance and behavior towards climate resilience solutions, utilizing data from diverse European countries.

NATIONAL R&I PROJECTS

MASOT: Mapeamento de Serviços de Ecossistema a partir de Observações da Terra [Monitoring Ecosystem Services from Earth Observation]

Budget for NOVA IMS: € 49 999,37

Fundação para a Ciência e Tecnologia, I.P.

2022/23

NOVA IMS' role in the project: Coordinator

PI: Pedro Cabral

MaSOT aims to estimate ecosystem services (ES) using satellite earth observation (SEO) data in Mainland Portugal. The approach will enable the extension of the ES concept to include the influence of spatial characteristics in ES bundles, resulting in a more accurate estimation of ES than in traditional ones. A baseline scenario to assess the changes in ES from a temporal perspective will be provided for the 1st time for Portugal based on SEO. Results will enable the characterization of ES for different purposes, such as biodiversity conservation and ES sustainable management.

CityMe: Mapeamento de Regiões na Cidade a partir das Perceções dos Cidadãos [Mapping Regions in the City from Citizens´ Perceptions]

Budget for NOVA IMS: € 49 619,41

Fundação para a Ciência e Tecnologia, I.P.

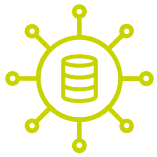
2022/23

NOVA IMS' role in the project: Coordinator

PI: Marco Painho

The CityMe project aims to create a framework for mapping, exploring, and analyzing official and non-official neighborhoods, regions of interest, districts, and other areas that constitute people's mental maps of the city. By harvesting data from our map-based application and social media platforms, we can better understand how citizens spatially reason about administrative and non-administrative regions in the urban landscape, such as parishes, residential areas, informal neighborhoods, historical centers, and commercial areas.

MozambES: Payments for mangrove ecosystem services in Mozambique



Budget for NOVA IMS: € 41 099,28

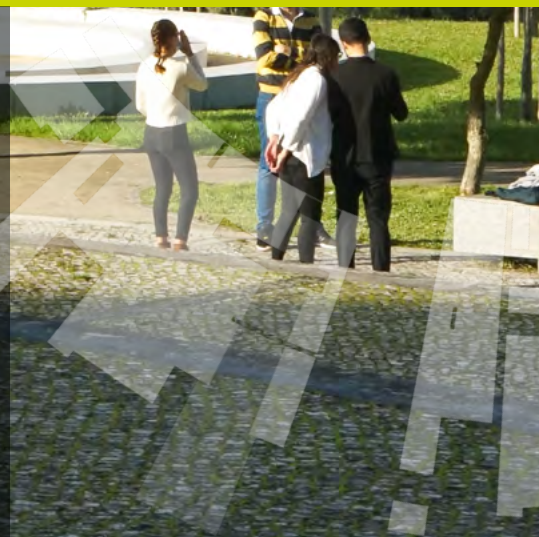
Fundação para a Ciência e Tecnologia, I.P.

NOVA IMS' role in the project: Partner

PI: Pedro Cabral

Mangroves are unique ecosystems, providing vital benefits to poor populations in coastal areas. Mozambique, a region prone to environmental catastrophes, holds 2,3% of global mangrove coverage. Low income and a firm reliance on natural resources affect the ability of local populations to face environmental challenges, making this region highly vulnerable. This project will assess the economic value of mangrove ecosystem services in Mozambique and evaluate the ecological and socioeconomic impacts of a Payments for Ecosystem Services (PES) field experiment.

Full list of Capacity--building projects in 2018-2023



CAPACITY-BUILDING PROJECTS

INTERNATIONAL CAPACITY-BUILDING PROJECTS

CONSCIOUS: Curriculum Development of Human Clinical Trials for the Next Generation Biomedical Students

Budget for NOVA IMS: € 30 095,00 | **ERASMUS+**

2019/21

NOVA IMS role in the project: Partner | **PI: Marco Painho**

Through the CONSCIOUS project, we addressed skills gaps and mismatches in European-level Clinical Trial Professionals by developing curricula and preparing e-learning materials for the career development of biomedical students (medical, pharmacy, clinical research master).

e-VIVA: Enhancing and Validating service related competences in Versatile learning environments in Western BAlkan Universities

Budget for NOVA IMS: € 25 771,00 | **ERASMUS+**

2019/22

NOVA IMS role in the project: Partner | **PI: Pedro Cabral**

In the e-VIVA project, the focus was on addressing the issue of students' skills development, facilitating, and validating their skills in formal/informal learning contexts. e-VIVA aimed to create a blended learning approach to facilitate and validate competence developments related to service orientation in rather informal learning contexts in higher education institutions and workplace learning contexts.

BUDS: Building Up Digital Strategists

Budget for NOVA IMS: € 60 594,00 | **ERASMUS+**

2019/22

NOVA IMS role in the project: Partner | **PI: Mauro Castelli**

This project aimed to design a blended "e-learning+face-to-face" course that built up digital skills among higher education students through in-depth training, merging codified knowledge and experiential learning for consulting on digital transformation processes.

BeyondScale: Developing the Organisational Capacity of Higher Education Institutions using the HEInnovate platform to facilitate peer learning and a pan-European community of practice

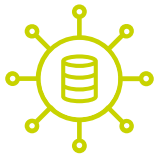
Budget for NOVA IMS: € 24 440,00 | **ERASMUS+**

2019/21

NOVA IMS role in the project: Partner | **PI: Roberto Henriques**

The BeyondScale project aimed to foster a pan-European community of practice for Higher Education Institutions (HEIs), focusing on three central objectives: 1) Building Entrepreneurial Capacity: Empowering HEIs with entrepreneurial skills and knowledge through a collaborative learning environment; 2) Refining the HEInnovate Approach: Further developing and optimizing the HEInnovate methodology, a self-assessment tool designed to strengthen the entrepreneurial spirit of HEIs and their stakeholders; and 3) Sharing Best Practices: Documenting and disseminating innovative practices emerging from the project, fostering knowledge exchange and continuous improvement.
The project demonstrably enhanced the organizational capacity of participating HEIs. The HEInnovate tool, with its self-assessment approach, played a key role in achieving this by supporting the introduction of new and more effective practices across diverse institutions and countries.

Datalit: Data Literacy at the interface of higher education and business



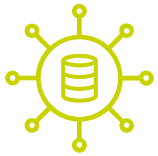
Budget for NOVA IMS: € 45 177,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Pedro Cabral**

2020/21

The DATALIT project aimed to provide university students across various faculties with the opportunity to attain a suitable level of data knowledge for diverse applications in their personal and professional lives. It also focused on narrowing the gap between business and academia, facilitating direct contact between EU enterprises and properly trained potential future employees or business partners skilled in effective data utilization.

MDT - Managing Digital Transformation



Budget for NOVA IMS: € 46 995,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Tiago Oliveira**

2020/23

New and emerging digital disruptive technologies - such as Artificial Intelligence (AI), Social Media, Big Data, Smart Devices, Internet of Things (IoT) - created new business challenges and changed the traditional value creation paradigm. Industry 4,0 presented organizations with challenging problems requiring new approaches and solutions. Digitalization opened new opportunities, intensifying and accelerating the rate of innovation.
The need for professionals capable of developing and implementing strategies and tactics addressing digital transformation by businesses, organizations, and governments was high and urgent. The MDT-program educated a large number of students and professionals in the past years, enabling many organizations (public and private) to successfully go through the process of digital transformation.

ProcToGo - Procurement: digital Tools and sustainable Goals

Budget for NOVA IMS: € 39 794,00 **ERASMUS+**

2020/23

NOVA IMS role in the project: Partner **PI: Mauro Castelli**

The ProcToGo proposal focused on the area of Procurement. In many universities, Procurement, being a practice-oriented discipline, had limited relevance and was included as a core subject in just a few courses/ programs, mainly related to Operations or Supply Chain Management. The project had a twofold approach: designing two short digital courses on digital sustainable procurement practices based on micro-credential outcomes, certifying acquired skills through a digital badge (Digital3); developing a micro-credential framework based on which learners (including life-long learners) could progressively build new digital skills required by their professional career in the area of procurement. In line with the "To Go" perspective, each digital course provided a set of skills that could be immediately and effectively deployed in the job market.

GeoTech: Master of Science in Geospatial Technologies

Budget for NOVA IMS: € 1 069 500,00 **ERASMUS+**

2021/27

NOVA IMS' role in the project: Partner **PI: Marco Painho**

The joint program is currently being delivered by three partner universities with complementary profiles: the University of Münster (WWU), the Universitat Jaume I (UJI), and the Universidade Nova de Lisboa (UNL). Combining their respective expertise and building on a long-standing, successful cooperation, the partners are providing a consistent and innovative study program that equips graduates with the necessary skills to address core societal challenges using geospatial technologies. NOVA IMS collaborates on an ongoing joint program with three European partners, aiming to implement an integrated Master's program in Geospatial Technologies. The impact includes effectively preparing students with different educational backgrounds for the labor market, enabling them to apply innovative geospatial technologies to address key societal challenges. The ongoing collaboration also aims to establish a worldwide network between and across students, alumni, beneficiaries, associated industry partners, and additional supporting network partners.

CONSCIOUS II - Curriculum Development of Human Clinical Trials for the Next Generation of PhD Students and Early Career Researchers in the Medical, Science, Pharmacy and Health Professions

Budget for NOVA IMS: € 30 095,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Marco Painho**

2021/24

CONSCIOUS II aims to continuously develop a curriculum that trains future clinical trialists, equipping them with skills to design, conduct, manage multicenter clinical trials, and report findings in line with the internationally agreed CONSORT statement. The ongoing project includes the creation of accessible e-learning materials catering to the needs of target groups such as PhD students and early-career researchers in the medical, pharmacy, and healthcare professions.

JOULE: data JOUrnaLism courses for higher Education

Budget for NOVA IMS: € 47 436,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Pedro Cabral**

2021/23

Data journalism (DJ) continues to gain prominence in higher education courses across European countries, with media outlets recognizing the value of systematically using data for journalistic content production. DJ combines a technical approach to data, seeking answers and identifying patterns, with a journalistic approach to exploring interesting questions. Ongoing efforts in DJ empower journalists to unveil untold stories and enhance confidence in published news.

SOHACK: Social Hacking of Higher Education for Sustainability

Budget for NOVA IMS: € 34 180,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Roberto Henriques**

2023/25

The SOHACK project aim is to tackle sustainability challenges such as wasteful consumption of energy or food that universities are facing on their campuses daily. It will be achieved by employing an innovative approach of merging place-making and hackathon methodologies to create a new learning framework that will be used to prepare students and higher education staff to become true factors of change towards a more sustainable future.

WEBJOU: WEstern Balkan higher educational courses in data JOUrnalism

Budget for NOVA IMS: € 78 366,00 | **ERASMUS+**

NOVA IMS role in the project: Partner | **PI: Pedro Cabral**

2023/26

WEBJOU project aims to promote knowledge exchange and multidisciplinary teaching and learning innovation in the Western Balkan reality, which concerns providing all knowledge and skills, in particular from fields such as Data Science, statistics, visualization and communication, necessary to fruitfully operate in the data journalism and data communication frameworks.

Full list of publications in 2018-2023

FULL LIST OF PUBLICATIONS IN 2018-2023

Books

2018

- Santos, V. (2018). Criatividade em sistemas de informação. (Sistemas de Informação). Lisboa: FCA. Editora de Informática. ISBN: 978-972-722-891-1
- Castelli, M., Sekanina, L., Zhang, M., Cagnoni, S., & García-Sánchez, P. (Eds.). (2018). Genetic Programming: 21st European Conference, EuroGP 2018, Proceedings. (Lecture Notes in Computer Science; Vol. 10781). Springer. DOI: 10.1007/978-3-319-77553-1
- Neto, M. D. C., & Outor-Monteiro, D. (Eds.). (2018). Alterações Climáticas e Agricultura: Livro de Comunicações do II Encontro Nacional do Colégio de Engenharia Agronómica. Ordem dos Engenheiros. ISBN: 978-989-8152-14-5
- Rodrigues, T. & Painho, M. (Eds.). (2018). Modelos preditivos e segurança pública. Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Silva, P., Quaresma, R. & Oliveira, T. (Coord.). (2018). Atas da 18ª Conferência da Associação Portuguesa de Sistemas de Informação: a indústria 4.0 e os sistemas de informação. Associação Portuguesa de Sistemas de Informação. URL: http://capsi2018.apsi.pt/Docs/eBook_CAPSI%202018p.pdf

2019

- Moreira, F., Cruz-Jesus, F., & Quaresma, R. (2019) (Eds.). Proceedings of the 19th Portuguese Association of Information Systems Conference: digital disruption: living between Data Science, IoT and... people. Associação Portuguesa de Sistemas de Informação.
- Ramos, I., Quaresma, R., Resende da Silva, P., Oliveira, T. (Eds.). (2019). Information Systems for Industry 4.0. Proceedings of the 18th Conference of the Portuguese Association for Information Systems. (Lecture Notes in Information Systems and Organisation, 31). DOI: 10.1007/978-3-030-14850-8. eISBN: 978-3-030-14850-8; ISBN: 978-3-030-14849-2. Link: https://www.springer.com/us/book/9783030148492

2020

- Cerejeira, J., Aguiar, M. C. D., Pereira, A. M., Sepúlveda, A. J., Silva, C. P. D., Mendes, F. R., Bravo, J. M., Coelho, M., Portela, M., Baleiras, R. N., Marques, S., & Peralta, S. (2020). Cidadania Social e Economia: Reflexões sobre a Realidade Portuguesa. (Extra coleção). UMinho Editora. https://doi.org/10.21814/uminho.ed.17
- Neto, M. de C. & Henriques, A. A. (2020). Smart Portugal Webinars. Conversas digitais sobre inteligência urbana em tempo de pandemia. (NOVA Cidade – Urban Analytics Lab, 1). Lisboa: Instituto Superior de Estatística e Gestão de Informação da Universidade Nova de Lisboa. NOVA Information Management School (NOVA IMS). ISBN: 978-972-8093-17-4. Acesso versão digital: http://hdl.handle.net/10362/98506

2021

- Henseler, J. (2021). Composite-Based Structural Equation Modeling: Analyzing Latent and Emergent Variables. Guilford Press. http://www.compositebasedsem.com/

- Castelli, M., Fallacara, E., & Manzoni, L. (2021). GADGET - Online Gambling Addiction Detection. Time series clustering of Portuguese online gamblers. Instituto Superior de Estatística e Gestão de Informação da Universidade Nova de Lisboa. NOVA Information Management School (NOVA IMS). http://hdl.handle.net/10362/110872
- Vanneschi, L. (2021). Machine Learning for Survival Prediction in Breast Cancer. Instituto Superior de Estatística e Gestão de Informação da Universidade Nova de Lisboa. NOVA Information Management School (NOVA IMS). http://hdl.handle.net/10362/110873
- Vanneschi, L., & Pinto, D. C. (2021). Understanding Over-Indebtedness in Portugal: Descriptive and Predictive Models. Instituto Superior de Estatística e Gestão de Informação da Universidade Nova de Lisboa. NOVA Information Management School (NOVA IMS). http://hdl.handle.net/10362/114093

2022

- Côrte-Real, N. (2022). Big data and analytics: o poder de transformar dados em inteligência e o impacto na competitividade empresarial. Influência. Penguin Random House Grupo Editorial Portugal. ISBN: 978-989-623-550-5
- Lobo, V., & Correia, A. (Eds.) (2022). Applications of Machine Learning and Deep Learning for Privacy and Cybersecurity. IGI Global. ISBN: 978-179-9894-30-8

2023

- de Stefano, C., Fontanella, F., & Vanneschi, L. (2023). Artificial Life and Evolutionary Computation: 16th Italian Workshop, WIVACE 2022, Gaeta, Italy, September 14–16, 2022, Revised Selected Papers. (Communications in Computer and Information Science; No. 1780). Springer Nature Switzerland AG. https://doi.org/10.1007/978-3-031-31183-3
- Vanneschi, L., & Silva, S. (2023). Lectures on Intelligent Systems. (Natural Computing Series). Springer, Cham. https://doi.org/10.1007/978-3-031-17922-8
- Hollensen, S., Kotler, P., Opresnik, M. O., & Rita, P. (Ed.). (2023). Social Media Marketing: Expanda o seu negócio. (edição em português adaptada e traduzida) Lidel. ISBN: 9789897528446

Book chapter

2018

- Painho, M. & Ribeiro, S. (2018). O projecto SIM4SECURITY: um exemplo de aplicação de tecnologias diferenciadas em sede de políticas públicas. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 157-167). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Ribeiro, S. (2018). Desafios da utilização de tecnologias de informação no apoio à tomada de decisão. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 87-98). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Bravo, J., Rodrigues, T., Ribeiro, S. & Inácio, A. (2018). Portugal: projeções de população residente 2011-2040. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 169-208). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Cabral, P., Ribeiro, S., Pereira, J. & Painho, M. (2018). Análise espacial avançada no contexto da segurança interna. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 231-251). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1

- Ribeiro, S. & Henriques, R. (2018). Aplicação de self-organizing Maps na análise da criminalidade em Portugal, 2011, 2016. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 253-280). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Ribeiro, S., Henriques, R. & Castelli, M. (2018). Modelo de otimização. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 281-302). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Neto, M de C., Motta, M., Sarmento, P. & Ribeiro, S. (2018). Implementação de um dashboard para visualização e análise de dados de segurança. In T. Rodrigues, & M. Painho (Eds.), Modelos preditivos e segurança pública (pp. 281-302). Porto: Fronteira do Caos. ISBN: 978-989-54148-7-1
- Bravo, J. M. (2018). Taxation of Pensions in Portugal: Is there a Rationale for a Semi-Dual Income Tax System?. In Robert Holzmann & John Piggott (Eds.), The Taxation of Pensions, (CESifo Seminar Series). MIT Press. ISBN: 9780262038324.
- Trujillo, L.; Z-Flores, E.; Juárez-Smith, P. S.; Legrand, P.; Silva, S.; Castelli, M.; Vanneschi, L.; Schütze, O. & Muñoz, L. (2018). Local Search is Underused in Genetic Programming. In R. Riolo et. al. (Eds.), Genetic Programming Theory and Practice XIV, pp. 119-137. [Genetic and Evolutionary Computation]. Springer. ISBN: 978-3-319-97087-5; Online ISBN: 978-3-319-97088-2. Doi: https://doi.org/10.1007/978-3-319-97088-2_8

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- Henseler, J., Müller, T., & Schuberth, F. (2019). New guidelines for the use of PLS path modeling in hospitality, travel and tourism research. In F. Ali, M. Rasoolimanesh, & C. Cobanoglu (Eds.), Applying Partial Least Squares in Tourism and Hospitality Research (pp. 17-33). Emerald. https://doi.org/10.1108/978-1-78756-699-620181002. ISBN: 978-1-78756-700-9, eISBN: 978-1-78756-699-6
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- Bravo, J. M., & Coelho, E. (2020). Modelling Monthly Births and Deaths Using Seasonal Forecasting Methods as an Input for Population Estimates. In Demography of Population Health, Aging and Health Expenditures (pp. 203-222). [Chapter 14] (Demography of Population Health, Aging and Health Expenditures; Vol. 50). https://doi.org/10.1007/978-3-030-44695-6_14
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