

5th edition of
**INTERNATIONAL
CONGRESS 2026**

**Leveraging the
Regenerative Economy**

22–23 October 2026

Avenida dos Descobrimentos, 333 · 4400 Vila Nova de Gaia, Portugal

congress@ispgaya.pt

PROGRAMME

Day 1 — Thursday, 22 October 2026

09:00–09:30	Opening Session — Auditorium Jorge Simões , President of ISPGAYA; José Morais , Steering Committee of ISPGAYA26 Fernando Machado - <i>City Councillor for Higher Education, Municipality of Vila Nova de Gaia, Portugal</i>
09:30–10:00	Keynote Address 1 — Auditorium Distinguished Speaker Stefani Hicswa , Chancellor , Montana State University Billings, USA “Regenerative Higher Education: Student Success, Well-Being and Institutional Resilience in a Changing Economy”
10:10–10:45	Keynote Address 2 — Auditorium Teresa Nogueira , Professor at ISEP and Researcher at CIETI, Portugal “Powering the Blue Economy for a Regenerative Future”
10:45–11:15	Break

Parallel Sessions — 11:15–13:00

Session 1 · Digital Systems & Cybersecurity

11:15–13:00 · Auditorium · Chair: *Henrique Teixeira*

No.	Communication and authors
10	A Hybrid AES-GCM and Blockchain Architecture for Sensitive Data Protection: An Empirical Evaluation of Performance and Trade-Offs in Distributed Systems <i>Filipe Gomes; Tiago Soares da Costa</i>
13	Forensic Readiness for Sustainable Digital Transformation: Confidential Computing and Zero Trust <i>André Ferreira; Eduardo Ramos; Marcos Silva; Sérgio Sargo</i>
14	Cyber-Resilient Edge-Cloud Architecture for a 5 MW Solar Plant: An IoT and SCADA Security Framework for Regenerative Energy Infrastructures <i>André Ferreira; Marcos Silva; Eduardo Ramos; Justino Lourenço</i>
15	A Layered IIoT Security Architecture Integrating Zero Trust, Security by Design and Honeypot-Based Threat Intelligence <i>Rúben Oliveira; Tiago Gomes; Daniel Pinho; Evelin Limeira; Justino Lourenço</i>

Session 2 · Marketing, Tourism & Market Dynamics

11:15–13:00 · Room 4.1 · Chair: *Daniel Sousa*

No.	Communication and authors
1	A conceptual model of intention to buy electric vehicles <i>Paulo Pires; Luca Basile; José Duarte Santos</i>
7	Using Generative Artificial Intelligence (AI) to Personalize the Brand Design Experience <i>Manuel Sousa Pereira; Vítor Tavares; Erica Bernardes; Mariana Silva; Augusto Barbosa</i>
8	The impact of social media communication on participation and engagement in music festivals: a study applied to festivals in Portugal <i>Manuel Sousa Pereira; Sílvia Faria; Vítor Tavares; Carlos Bessa; Sandra Malheiro Rodrigues</i>
18	Digital Marketing Strategies and Stakeholder Engagement in Research Centers: A Systematic Review <i>Inês Santos; Jorge Garcia; Manuel Fonseca; Bruno Sousa</i>
23	The influence of perceived greenwashing on green trust: the mediating role of consumer skepticism <i>Inês Veiga Pereira; Joana Araújo; Vítor Sousa</i>

Session 3 · Education and Pedagogical Innovation

11:15–13:00 · Room 5.1 · Chair: *Joana Paulo*

No.	Communication and authors
2	Gamified Digital Libraries as a Tool for Educational and Social Engagement in Corporate Communities <i>Manuel Marques; Tiago Soares da Costa</i>
28	Non-Teaching Staff and School Happiness: Organizational Well-Being Through UNESCO's Happy Schools Framework <i>Lurdes Neves</i>
29	School Leadership, Work Environment and Work Happiness in Early Childhood Education: A Case Study at Alfragide Nursery and Kindergarten <i>Lurdes Neves</i>
30	Functional Distributed Leadership and Educational Success: Collective Agency and Psychological Capital in Portuguese Public Schools <i>Lurdes Neves</i>

13:00– 14:30	Lunch
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Afternoon — 22 October

14:30– 15:45	Keynote Address 3 — Auditorium Cláudio Santos , Head of Research, INEGI, Portugal “Bridging the Valley of Death: Interface institutes as engines of a regenerative innovation economy”
15:45– 16:00	Break

Session 4 · Applied Engineering & Industrial Technologies

16:00–17:45 · Auditorium · Chair: *Arianne Pereira*

No.	Communication and authors
4	The European Artificial Intelligence Regulation (AI Act): Implications for Industrial Engineering, Intelligent Automation, and Sustainable Production Systems <i>Luísa Orvalho; Bernardo Fernandes; Pedro Fernandes</i>
5	Regenerative Braking in Electric Vehicles: The Role of Power Electronics <i>Alexandre Silva; Justino Lourenço; Nelson Neves</i>
20	The Role of AI and IoT in EV Regenerative Braking <i>Nelson Castro Neves; Justino Lourenço; Alexandre Silva</i>
32	Allocation Strategies for Energy Storage Systems in Distribution Networks with High Photovoltaic Generation Penetration <i>Francisco Luis Bressan; Moisés Santos; Airam Teresa Sausen; Paulo Sérgio Sausen; Eric Zanghi</i>

Session 5 · Innovation, Entrepreneurship & Technology Transfer

16:00–17:45 · Room 4.1 · Chair: *Fernando Almeida*

No.	Communication and authors
6	Mapping the Nexus Between Social Entrepreneurship and Sustainable Development: A Systematic Review <i>Fernando Almeida; José Milton de Sousa-Filho; Nikolett Deutsch</i>
9	Green Entrepreneurship and Decent Green Jobs in Morocco: Bridging Policy Ambition and Employment Outcomes <i>Aziza El Bakkali; Bouchra Nadir; El Khalil Cherif</i>
12	Green Skills and Green Entrepreneurship: Legal Challenges for Promoting Decent Green Jobs in Morocco <i>Aziza El Bakkali; Bouchra Nadir; El Khalil Cherif</i>
19	Linking Responsible Education, Lifelong Learning, and Economy of Francesco Outcomes: Exploring Pathways for Sustainable Human Development <i>Fernando Almeida; Cristina Barbosa; Cristina Guimarães; Vasco Amorim</i>
36	Innovation Policy and Public Financing: Evidence from FINEP Resource Allocation in Brazil (2002–2025) <i>Josélia Teixeira; Felipe Orsolin; Rodrigo Lobo; Heather Thompson</i>

Session 6 · Management, Accounting & Corporate Governance

16:00–17:45 · Room 5.1 · Chair: **José Oliveira**

No.	Communication and authors
11	Green Finance and Corporate Financial Performance: Evidence, Challenges, and Future Research <i>Manuel Carlos Nogueira; Mara Madaleno; José Oliveira</i>
16	How Artificial Intelligence and Digitalization Shape Employer Branding and Candidate Perceptions: A Systematic Literature Review <i>Sara Santos; José Duarte Santos; Paulo Botelho Pires</i>
17	Regenerating Player Availability: Recovery Time as a Human Capital Sustainability Metric in Professional Football <i>Micaela Pinho; Paulo Botelho Pires; Miguel Gouveia; José Duarte Santos</i>
34	Efficiency, Transparency, and Equity: A Methodological Framework for Results-Based Budgeting in the State of Paraná <i>Umberto Antonio Sesso Filho; Luís Miguel Luzio-dos-Santos; Tales Leon Sanches; Saulo Fabiano Amancio Vieira; Vera Lucia Tieko Suguihiro</i>
37	Mapping Research on Performance Budgeting: A Bibliometric Analysis of Literature <i>Luís Miguel Luzio-dos-Santos; Larissa Gabriele de Carvalho Yoshida; Saulo Fabiano Amâncio Vieira; Tales Leon Sanches; Vera Lucia Tieko Suguihiro</i>

17:45–18:00	Break
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Session 7 · Digital Systems & Cybersecurity

18:00–19:30 · Auditorium · Chair: **Carlos Sousa**

No.	Communication and authors
21	Evaluating Fredericton as a Smart Sustainable City: An Assessment Using the ITU Key Performance Indicator Framework <i>Sergio Ribeiro; Ruhhi Midha; Silvio Stefani</i>
22	IoT Security Architecture with Zero Trust and Security-by-Design: A Layered Framework Across Perception, Network/Transport, and Application <i>David Santos; Diogo Curralo; João Teixeira</i>
33	Android Malware Forensics: Techniques, Tools and Challenges <i>Daniel Pinho; Gonçalo Pires; João Teixeira; Mariana Maia; Sérgio Sargo</i>
35	Calibrated Semantic Manifolds for Robust Unsupervised APT Detection <i>Fábio Chicout; Luciano Cabral; Justino Lourenço</i>
38	Blockchain and Secure IoT Identity in Regenerative Supply Chains <i>Gonçalo Pires; Mariana Maia; Justino Lourenço</i>

Session 8 · Marketing, Tourism & Market Dynamics

18:00–19:30 · Room 4.1 · Chair: **Manuela Costa**

No.	Communication and authors
24	Intelligent Virtual Assistants in Tourism: Assessing the Impact of Generative Artificial Intelligence on the Tourist Experience <i>José Arnaud</i>
25	Generative Artificial Intelligence and Cultural Heritage Interpretation: Opportunities and Challenges for Tourism <i>José Arnaud</i>
26	Teaching Hotels to Remember: Artificial Intelligence and Relationship Marketing in Northern Portugal <i>Andreia Ribeiro; Luzia Arantes; Bruno Sousa</i>
27	Green Skies, Competitive Tourism: The Airbus A320 NEO as a Catalyst for Sustainable Aviation Strategy <i>Alexandra O'Neill; Mariana Marques; Rui Quadros; Ângela Miranda</i>
42	The big trade-off between rural deprivation and pursuit of happiness in Portugal <i>Vanda Veréb; Ana Húngara</i>

Session 9 · Management, Accounting and Corporate Governance

18:00–19:30 · Room 5.1 · Chair: **Filipa Silva**

No.	Communication and authors
58	Impact of Artificial Intelligence on Audit Procedures in Portugal <i>Susana Bastos; Margarida Lopes</i>
60	The Ecological ICMS as a Tool for Environmental Public Policies: An Analysis in a Small Brazilian Municipality <i>Elaine Wantroba; Kamilla Roth; Lisandro Pezzi Schmidt; Mário Zasso Marin; Rafael Freitas Machado</i>
65	Marketing, Commercial Function, Sales and Negotiation: A Critical Analysis of Current Market Demands and Their Implications for New Performance Metrics in the Regenerative Economy <i>Pedro Sousa; Catarina Silva</i>
66	Organizational Governance, Psychosocial Risk, and Workplace Psychological Harassment: Implications for Teachers' Health and Well-Being <i>Fernando Bandeira; Adelinda Candeias</i>
67	Beyond Financial Distress: Developing a Nonprofit Resilience Index (NRI) — Evidence from the Gil Foundation <i>Filipa Silva; Romildo Silva; Carlos Lopes</i>
44	Intellectual Capital and Organizational Resilience in Professional Football: Evidence from Futebol Clube de Famalicão – Futebol SAD <i>Sofia Moreira; Gonçalo Castro; Helena Costa Oliveira; Paulo Pires; Isabel Maldonado</i>

Day 2 — Friday, 23 October 2026

09:30–10:45	Keynote Address 4 — Auditorium Rodrigo Cortopassi Goron Lobo, College of Business, Montana State University Billings, USA “Business Models for a Regenerative Economy: Innovation, Governance and Market Dynamics”
10:45–11:15	Break

Research Centres Roundtable — 11:15–12:45

Auditorium · Moderator: *José Morais*

Theme: **Research Centres as Engines of Collaboration, Innovation and Societal Impact**

Participants:

- **Ana Azevedo** — CEOS.PP, Portugal
- **Cristina Guimarães** — INESC TEC, Portugal
- **Luís Moreira** — INSIGHT Piaget, Portugal
- **Margarita Robaina** — GOVCOPP, Portugal
- **Mariana Marques** — CIGEST, Portugal
- **Jorge Garcia** — ADiT-Lab UNIPVC, Portugal

13:00–14:30	Lunch
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Parallel Sessions — 14:30–15:45

Session 10 · Education & Pedagogical Innovation

14:30–15:45 · Auditorium · Chair: *Luísa Rodrigues*

No.	Communication and authors
40	Leadership as a Bicultural Bridge: Curriculum Contextualization and Equity in Two Portuguese Schools Abroad (Mozambique and Angola) <i>Teresa de Jesus Correia Paulino dos Santos</i>
41	Learning Pathways to Student Well-Being and Sustainable Success in Higher Education <i>Adelinda Candeias; Adriana Félix</i>
73	Active Learning Methodologies in the Curricular Unit of Mathematical Analysis II <i>Joana Paulo; Manuela Maia</i>
76	Leveraging the Regenerative Economy through International Cooperation: ISPGAYA's Erasmus+ KA2 Trajectory in Sustainability Education <i>João Monteiro</i>

Session 11 · Applied Engineering & Industrial Technologies

14:30–15:45 · Room 4.1 · Chair: *Jhonny Rodrigues*

No.	Communication and authors
47	Binary Neural Networks on FPGA: Implementation of a Processor-Free Colour Classifier <i>José Alberto Neves</i>
54	Experimental Evaluation of a Paraconsistent Adaptive Ratio Control Station for Liquid Mixing Processes <i>Kelly Abou Arabi de Mendonça; Mauricio Conceição Mario; João Inácio da Silva Filho; Michele Rodrigues Hempel Lima; Irene Silva Farias; Arianne Soares do Nascimento Pereira</i>
56	Numerical Study on the Dynamic Behavior of Box Beams by the Finite Element Method <i>Diogo Marcos; Justino Cruz; Augusto Rego; Hugo Silva</i>
57	Design and Thermal Simulation of a Heat Exchanger for Shower Energy Recovery <i>Marco Amaro; Filipe Silva; Jhonny Rodrigues; Hugo Silva</i>
61	Automation of the Optical Characterization of Photosensitive Devices <i>Vinicius Ananias; Raquel dos Santos; Thiago Roberto; Pedro Aguiar; Arianne Pereira; Renato Giacomini</i>

Session 12 · Innovation, Entrepreneurship & Technology Transfer

14:30–15:45 · Room 5.1 · Chair: *Eric Zanghi*

No.	Communication and authors
46	Intelligent Radar for Football Player Analysis and Selection Using Artificial Intelligence <i>Donato Chella; Michele Rodrigues; Arianne Pereira</i>
51	Integrating Circularity into Business Models for the Construction Sector: Insights from a Systematic Literature Review <i>Josiane Rodrigues; Silvio Stefani; Luísa Carvalho; Pedro Pardal; Marcela Castro; Célia Kozak</i>
68	Technological Transformation of Manufacturing Toward Industry 4.0 in Brazil: Empirical Evidence from the 2022 and 2024 PINTEC Surveys <i>Josélia Teixeira</i>
75	The Regenerative Innovation Model: An Operational Architecture for Regenerative Competitiveness <i>Luis Barbosa</i>

15:45–16:00	Break
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Parallel Sessions — 16:00–17:30

Poster Session – Auditorium

1 - Education for an Innovative Future: Do University Students' Beliefs About Creativity Matter?

Maria de Fátima Morais; Lúcia C. Miranda; José Morais

Session 13 · Management, Accounting & Corporate Governance

16:00–17:30 · Auditorium · Chair: **Filipa Silva**

No.	Communication and authors
39	Sustainable Regional Strengths and Territorial Development: An Analysis of the Pine Nut (Pinhão) Value Chain <i>Tales Leon Sanches; Thiago Spiri Ferreira; Vera Lucia Tieko Suguihiro; Saulo Fabiano Amancio-Vieira; Juliana Gomes Fernandes</i>
43	Companies' Knowledge and Attitudes Regarding ESG Indicators <i>Ana Hungara; Daniel Sousa</i>
50	Operationalizing Regenerative Organizations: A Conceptual Framework <i>Olga Cunha</i>
53	A Methodological Protocol to Support Cross-Cultural Decision-Making in Global Digital Experiences <i>Marina Brito; Geysa Barlavento</i>

Session 14 · Applied Engineering & Industrial Technologies / Digital Systems & Cybersecurity

16:00–17:30 · Room 4.1 · Chair: **Tiago Costa**

No.	Communication and authors
62	Structural Assessment of a Composite Frontal Mask for a Railway Vehicle Using Finite Element Analysis <i>Jhonny Rodrigues; Diogo Fonseca; Pedro Fernandes; João Machado; Augusto Rego; Ricardo Jorge Braga Rocha</i>
63	Application of Machine Learning for Temperature Estimation of the Field Winding in Synchronous Generators <i>Nathaly Priscila Muller; Lorenzo Hermann; Leonardo Luan Serpa Sá; Moisés Santos; Eric Zanghi; Paulo Sérgio Sausen; Airam Teresa Sausen</i>
48	Cork as a Regenerative System: Integrating Chemistry, Mathematical Modelling and Artificial Intelligence for Industrial Sustainability <i>Miguel Magalhães; Joana Paulo; Catarina Lucas</i>
59	Hybrid Unsupervised-Supervised Intrusion Detection in IoMT: A Systematic Review of Architectures, Integration Patterns, and Evaluation Evidence <i>Evelin Duarte Limeira; Rúben Oliveira; Tiago Gomes; Daniel Duarte Pinho; Justino Lourenço; Luciano Cabral; Rafael Roque de Souza; Milton Lima</i>
72	Real-Time Lightweight Intrusion Detection System on Raspberry Pi Edge Nodes Against Volumetric and Reconnaissance Attacks in IoT Networks <i>José Lopes; Justino Lourenço</i>

Session 15 · Marketing, Tourism & Market Dynamics

16:00–17:30 · Room 5.1 · Chair: *Rosália Rodrigues*

No.	Communication and authors
52	Internationalization Plan for Pedroso & Osório, S.A.: A Proposal for Expansion into Spain <i>Daniel Sousa; Vanessa Prestes; Ana Neves; Elsa Campota</i>
55	Video Aesthetics on BookTok: Effects on Consumer Identification and Book Purchase Intention <i>Gabriela Ávila; Pedro De Conto</i>
69	Marketing Automation, Humanized Personalization, and Purchase Intention in E-Commerce: A Systematic Literature Review <i>Cristiana Silva; Manuel José Serra Fonseca; Jorge Garcia</i>
70	A Systematic Review of the Impact of Interactive Educational Resource Design on Audience Acquisition and Retention in Digital Learning Environments <i>João Amorim; Jorge Garcia; Manuel José Serra da Fonseca</i>
74	Consumer Preferences in the Digital Games Market <i>Carlos Bessa; Isabel Machado; Beatriz Bessa</i>

17:30–18:00	Break
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18:00–19:30	Closing Session — Auditorium Veneranda Carneiro , Municipal Director of Education of Vila Nova de Gaia City Council “Challenges of Education in the Municipality of V. N. de Gaia” Steering Committee ISPGAYA26
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