



# SBSI 2026

22ª Edição - Vitória - Espírito Santo

## XXII Simpósio Brasileiro de Sistemas de Informação

Sistemas de Informação Inteligentes:  
Inovações, Aplicações e Ética na Inteligência Artificial

**Proceedings of the 22st Brazilian  
Symposium on Information Systems**

*Intelligent Information Systems:  
Innovations, Applications, and Ethics in Artificial Intelligence*

### Research in Information Systems Track

### Trilha de Pesquisa em Sistemas de Informação (TP-SI)

# Proceedings of the 22nd Brazilian Symposium on Information Systems (SBSI 2026)

## Intelligent Information Systems: Innovations, Applications, and Ethics in Artificial Intelligence

<https://sbsi.sbc.org.br/2026/>

Research in Information Systems Track  
Trilha de Pesquisa em Sistemas de Informação (TP-SI)

Sociedade Brasileira de Computação - SBC  
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# Foreword:

## Special Committee of Information Systems (CESI) of the Brazilian Computing Society (SBC)

Dear 22nd Brazilian Symposium on Information Systems (SBSI 2026) attendees,

On behalf of the Special Committee of Information Systems (CESI) of the Brazilian Computer Society (SBC), we would like to welcome you to another edition of our annual symposium. CESI brings together Information Systems (IS) researchers and professionals and manages this area in Brazil in the context of SBC. Its work consists of articulating policies for the dissemination, strengthening, consolidation, and improvement of the quality of education, research, innovation, and performance in IS in Brazil, promoting and proposing important activities for the development and consolidation of this area in our country. SBSI is one of CESI's main actions. For this reason, we are happy that authors submit their work, that evaluators strive to give the best possible feedback on their reviews, and that coordinators can hold memorable moments so that the community can be strengthened, attract more participants, and consolidate in the country. As such, CESI calls on the IS community to be increasingly active and for SBSI participants to get involved and bring new researchers to the event, making the community stronger and solidifying their research.

SBSI is the most important forum on IS in Brazil and annually brings together researchers from all over the country. This year, SBSI takes place in Vitória, State of Espírito Santo, with professors Karin Satie Komati (IFES) and Vítor Estêvão Silva Souza (UFES) as general chairs. After several months of intense work and unparalleled dedication by the professors and their local organizing team, we made available to the IS community a rich, diversified, comprehensive, and solid program, communicating the latest research results in the IS area in Brazil. The event has grown considerably in recent years. This achievement reflects the consolidation of the area, made possible by growing support from the entire IS community. SBSI 2026 is composed of several parallel activities, which include technical sessions, national and international keynotes, panels, an ideathon with young female programmers, and five tracks: Research in IS Track; Industry and Innovation in IS Track; New Ideas and Emerging Results in IS Track; Doctoral Theses, Master's Dissertations, and Undergraduate Works on IS Contest; and Short Courses Track. In addition, the Seminar of Grand Research Challenges in IS in Brazil for the next ten years (GrandSI-BR 2026-2036) includes project presentations. All works accepted to SBSI tracks other than in the Research in IS Track are published in the SBSI Companion Proceedings and also made available to the community, and works accepted in the Short Courses in IS Track are published as an ebook.

The Research in IS Track Chairs, Rodrigo Santos (UNIRIO) and Maria Claudia Emer (UTFPR), worked hard to select the most mature and highest quality works to bring to the Brazilian IS community. Their rigorous selection process gives full confidence in the quality of the papers presented at this symposium in 2026. The program committee and the authors have greatly enhanced the scope and reach of SBSI by increasing the academic publication's impact. The Proceedings of SBSI, SBSI Companion Proceedings, and Short Courses in IS ebook are being indexed and made available at the SBC Open Lib - SOL. Additionally, the Proceedings of SBSI are indexed and accessible worldwide by the DBLP database.

Finally, we thank all the participants, collaborators, coordinators, sponsors, supporters, and organizers who once again made this in-person event possible.

We wish you all a great SBSI 2026!

Kind regards,

**Célia Ghedini Ralha (UnB and UFBA)**  
CESI/SBC Coordinator - 2025/2026

**Flávia Maria Santoro (UERJ and Inteli)**  
CESI/SBC Deputy Coordinator - 2025/2026

**Claudia Cappelli (UERJ)**  
CESI/SBC Deputy Coordinator - 2025/2026



**Célia Ghedini Ralha** holds a PhD from the University of Leeds, England (1996), a master's degree in Electronics and Computer Engineering from the Instituto Tecnológico de Aeronáutica - ITA (1990), and a post-doctorate at the Brandenburgische Technische Universität Cottbus, Germany (2012-2013). Professor at the University of Brasília (UnB), Computer Science Department (2002-2017), served as coordinator of the Computer Science Bachelor's Degree (2004-2006), head of the department (2006-2010), and Institutional Development and Innovation Director at the Dean of Research and Postgraduate Studies (2010-2012). She has been a member of the Postgraduate Program in Informatics at UnB since 2003, coordinating it during 2015-2017, and Grade 6 from CAPES (2021-2024). She was a visiting professor at the Australian National University (ANU)

and in the Postgraduate Program in Computer Science at the Federal University of Bahia (UFBA) (2024-2026). Célia Ralha has been a recipient of the prestigious National Council of Technological and Scientific Development (CNPq) Fellowship (2015-2025). Her experience is in computer science, with a focus on intelligent systems, specifically agent-based models, multi-agent systems, planning, and agent-based simulation. She leads the InfoKnow research group (Computer Systems for Information and Knowledge Treatment), accredited by CNPq since 2010. Célia Ralha is a senior member of the Brazilian Computing Society (SBC) and has served as general coordinator of the Special Information Systems Commission (CESI) in 2013-2015, 2024-2025, and 2025-2026, and as vice coordinator in 2010-2011. She has been editor-in-chief of the Electronic Journal of Undergraduate Research on Computing (REIC) from SBC since 2024 and an associate editor of the Springer Knowledge and Information Systems journal (KAIS) since 2022.



**Flavia Maria Santoro** is the Academic Director of the Institute of Technology and Leadership (Inteli) and a professor at the State University of Rio de Janeiro. She earned her Ph.D. in Systems and Computer Engineering from the Federal University of Rio de Janeiro (UFRJ), alongside a bachelor's degree in Electronic Engineering from the UFRJ's Polytechnic School and a master's degree in Contemporary Philosophy from the Pontifical Catholic University of Rio de Janeiro. Since 2009, she has been a recipient of the prestigious National Council of Technological and Scientific Development (CNPq) Fellowship. Her academic journey also includes sabbaticals at the Université Pierre et Marie Curie - Paris VI, France, and at Queensland University of Technology, Australia. With over two decades of experience as an educator and researcher in the field of Information Systems, Santoro's work primarily focuses on Business Process

Management, Knowledge-intensive Processes, Knowledge Management, and Computer Supported Cooperative Work and Learning, and Ethics in BPM. Beyond academia, she has lent her expertise as a consultant on numerous projects related to BPM and software development for various companies. She is the Director of Innovation of the Brazilian Computing Society 2025-2027.



**Claudia Cappelli** is a professor at the State University of Rio de Janeiro (UERJ). She is also a professor in the Professional Master's Program in Telemedicine and Telehealth at UERJ. She collaborates with the Postgraduate Program in Information Systems at Federal University of Rio de Janeiro (UFRJ). She earned her Ph.D. in Systems and Computer Science from the Pontifical Catholic University of Rio de Janeiro, alongside a bachelor's degree in Information Systems from UERJ and a master's degree also in Information Systems in UFRJ. She completed postdoctoral research at the Postgraduate Program in Computer Science at Unirio (2010) and at

UFRJ (2020). She is the founder of the National Institute of Science and Technology in Digital Democracy (INCT-DD) and a researcher in Digital Literacy at IBCIH (Brazilian Institute of Intelligent and Humane Cities). Knowledge Manager at Linguagem Simples Lab and at Rede Brasileira de Linguagem Simples. Member of the Steering Committee of the SBC's Digital Girls program. Brazilian representative at Clarity. Member of PLAIN. Innovation Researcher at INEI (National Institute of Entrepreneurship and Innovation). She was Manager of the Corporate Architecture and Technology Planning Area at Citibank (1996 - 2001) and Telemar (2001 - 2003) She was Director of Industry Relations at SBC (Brazilian Computing Society) (2016-2018). She worked for 8 years at Petrobras on a Business Process Management Project (2008-2016) and for 2 years at CEF in Data Science focusing on Plain Language (2018-2020). She acts as a reviewer for several national and international journals. Her work is in the area of Information Systems, mainly on the following topics: Business Process Management, Enterprise Architecture, IT Management, Transparency, Plain Language, and Digital Government.

# Foreword:

## Research in Information Systems Track of SBSI 2026

Information systems (IS) crosscut several areas of interest, supporting strategic decisions and enabling humans to deal with information in different moments and scenarios. In addition to enhancing and leveraging businesses, IS are able to anticipate and provide elements to deal with unexpected situations and promote more efficient and transformative management in the most diverse fields, such as health, education, logistics, agribusiness, finance, and public management, among others. The IS research area understands computing as a means for solving problems in the real world, society, and organizations, applying systems thinking to connect people, processes/organizations, and technology dimensions. In this context, the Brazilian Symposium on Information Systems (SBSI) is the annual event of the IS community of the Brazilian Computer Society (SBC) for the exchange of scientific and professional knowledge and experiences, presentation of scientific and industrial papers, discussion of contemporary issues in the area and alignment of the community's strategies and actions, bringing students, researchers, professionals, and entrepreneurs closer to the community interested in IS.

For the 22nd edition, SBSI 2026 takes place in the city of Vitória, State of Espírito Santo, Brazil, under the coordination of the Federal University of Espírito Santos & Federal Institute of Espírito Santo, with the theme "Intelligent Information Systems: Innovations, Applications and Ethics in Artificial Intelligence". The choice of this theme reflects the urgency and importance of discussing how IS can be developed and evolved to foster promised benefits, but also to cope with critical aspects of the widespread use of artificial intelligence models and tools nowadays.

This year, we received 292 submissions for this main track of SBSI 2026, from which 66 were withdrawn after two rounds of pre-review process between Sep 30 and Oct 9, 2025 (grace period). Next, 226 valid submissions were reviewed by 3 to 4 of the 176 program committee members between Oct 10 and Nov 24, 2025, followed by an intensive first discussion phase between Nov 24 and Dec 1, 2025, during which they read each other's reviews and updated their own based on their analyses. After the first notification on clear accept (45 submissions) or reject (94 submissions) by Dec 1, 2025, a rebuttal phase (87 submissions) took place between Dec 2 and Dec 8, 2025, followed by an intense second discussion phase to reach the final decisions on these active submissions between Dec 9 and 15, 2025. This process produced more than 1,400 messages! After a careful analysis performed by the program committee chairs, 67 submissions were accepted and 158 were rejected based on the consensus on the reviews and scores, as well as discussions and track guidelines shared in the call for papers in mid-2025, besides one withdrawn submission. Authors come from all Brazilian regions, plus Australia, and from academic and industrial institutions. Along with the communications of scientific papers, the symposium offers a robust program and a very high academic level.

We would like to thank SBC and the Special Committee of Information Systems (CESI), the General Chairs of SBSI 2026, and other colleagues involved in organizing the tracks and activities, as well as the program committee members and external reviewers for their excellent contributions to the authors in their papers and discussions. Moreover, a huge thanks to the authors for their interest in SBSI and in the collective development of the IS area in Brazil. Finally, our sincere thanks to the participants of this 22nd edition of SBSI. Let's keep growing as an active research and practice community!

Kind regards,

**Rodrigo Santos (UNIRIO) and Maria Claudia Emer (UTFPR)**  
Research in Information Systems Track Chairs



**Rodrigo Pereira dos Santos** is Associate Professor at the Department of Applied Informatics at the Federal University of the State of Rio de Janeiro (UNIRIO, Brazil) and Head of the Complex Systems Engineering Laboratory (LabESC). He is Research Productivity Fellow Level 2 by the Brazilian National Council for Scientific and Technological Development (CNPq, Brazil) and Young Scientist Fellow by the Carlos Chagas Filho Research Support Foundation of the State of Rio de Janeiro (FAPERJ, Brazil). PhD in Software Engineering from the Federal University of Rio de Janeiro (COPPE/UFRJ, Brazil). He was Academic Visitor at University College London (UCL, UK) and Postdoc Researcher at COPPE/UFRJ. His research interests are Complex Systems Engineering (especially software ecosystems and systems-of-systems), Human and Social

Aspects in Software Engineering, Software Business, Software Engineering Education and Training, Requirements Engineering, and Research Methods in Software Engineering and Information Systems. He also worked in several projects related to software process improvement and reuse management in large companies at Coppetec Foundation (2008-2017). He was also lecturer at Brazilian Open University, COPPE/UFRJ, UNIRIO, Infnet Institute, and Santa Úrsula University (2007-2017). He has been a member of the Education Evaluating Commission at the Brazilian Ministry of Education since 2011. He is member of the Association for Computing Machinery (ACM) since 2014 and Brazilian Computer Society (SBC) since 2008, in which he is/was member of the Special Commissions of Information Systems (CE-SI, member since 2017, coordinator 2019-2022, and vice-coordinator 2022-2025), Games and Entertainment Computing (CE-Jogos, 2022-2024), Software Engineering (CE-ES, 2021-2022), and Computer Science Education (GIEC, 2020-2024). He is also a steering committee member for WASHES@CSBC, BraSNAM@CSBC, and SBQS, as well as SBGames (2020-2022). He was Editor-in-Chief (2017-2021) of iSys: Brazilian Journal of Information Systems and is associate editor of iSys (2021-current), JBCS: Journal of the Brazilian Computer Society (2024-current), and JSERD: Journal of Software Engineering Research and Development (2025-current). He was guest editor for special issues/sections in scientific journals such as Information and Software Technology (Elsevier), Journal of Software: Evolution and Process (Wiley), Communications in Computer and Information Science (Springer), Journal of Internet Services and Applications (SBC Springer), and Journal of the Brazilian Computer Society (SBC Springer). He is the steering committee chair for SESoS@ICSE and also served as PC member for ICSE-RT, ICSE-SEET, CSEET, FSE-SEET, FSE-Demonstrations, ICSE-SCORE, SESoS, ECSA, ECSA-Tools, ECSA-DEI, ICSAW, MODELS, ICSOB, QUATIC, CibSE, IWSiB, ECIS, ISD, ACM MEDES etc., as well as reviewer for IEEE TSE, EMSE, JSS, IST, COMIND, ESWA, SCP, JSEP, FGCS, IJDRR etc. My ORCID (scientific profile with all social/academic networks): <https://orcid.org/0000-0003-4749-2551>.



**Maria Claudia Figueiredo Pereira Emer** holds a bachelor's degree in Mathematics from the State University of Western Paraná (1994), a bachelor's degree in Computer Science from the State University of Western Paraná (1997), a master's degree in Computer Science from the Federal University of Paraná (2002), and a Ph.D. in Electrical Engineering from the State University of Campinas (2007). She is currently an associate professor at the Federal Technological University of Paraná, where she teaches undergraduate and graduate-level computer science courses. She advises master's and doctoral students in Software Engineering, Information Systems, and Computing in Education. She has experience in Computer Science, with an emphasis on Software Engineering, and primarily works in software testing. Her research interests

include computing in education, computer science education, and minorities in computing. She has been a member of the Brazilian Computer Society (SBC) since 2014, active in the Software Engineering and Information Systems communities, serving on program committees for SBES, SBSI, and CSBC. She is currently an associate editor of the Electronic Journal of Undergraduate Research in Computing and Regional Secretary of the SBC in Paraná.

# Foreword:

## General Chairs of SBSI 2026

It is our pleasure to welcome you to the 22nd Brazilian Symposium on Information Systems (SBSI 2026). This year, the premier forum for Information Systems in Brazil will gather in Vitória, Espírito Santo, from May 25 to 28, 2026. Known for its stunning coastline and growing technological ecosystem, Vitória provides the perfect backdrop for our community to connect, share knowledge, and envision the future of our field at the Senac Ilha do Boi Hotel.

Organized by the Federal Institute of Espírito Santo (IFES), in collaboration with the Federal University of Espírito Santo (UFES) and Vila Velha University (UVV), under the auspices of the Special Committee of Information Systems (CESI) of the Brazilian Computer Society (SBC), this edition continues SBSI's tradition of excellence. We bring together a vibrant mix of leading researchers, industry professionals, students, and practitioners from across the country and abroad to foster a truly collaborative environment.

At the core of SBSI 2026 is the theme "Intelligent Information Systems: Innovations, Applications, and Ethics in Artificial Intelligence". As AI models and tools become increasingly ubiquitous, our responsibility as IS professionals grows. This year's theme invites us to explore not only the transformative power of AI in sectors such as health, education, industry, and public management but also the critical ethical dimensions—transparency, privacy, bias, and social impact—that must guide these technological advancements.

Over four days of intense exchange, attendees will experience a rich program featuring technical sessions, national and international keynotes, and specialized tracks covering the full spectrum of IS research and practice. We are honored to host distinguished speakers such as Professor Giancarlo Guizzardi (University of Twente) and Professor Ana Cristina Bicharra Garcia (UNIRIO). Furthermore, we are proud to highlight initiatives like the SI4All moment, which reinforce our commitment to diversity, equity, and the inclusion of minorities in the computing field.

An event of this magnitude is the result of the collective effort of a dedicated community. We express our deepest gratitude to the organizing committee, track chairs, reviewers, and student volunteers whose tireless work made this symposium possible. We also thank our sponsors and supporters for their vital contribution to the success of this event.

We invite you to engage deeply with the sessions, explore the beauty of Vitória, and, most importantly, build the partnerships that will shape the next decade of Information Systems in Brazil.

Welcome to SBSI 2026!

Kind regards,

**Karin Komati (IFES) and Vítor E. Silva Souza (UFES)**  
General Chairs of SBSI 2026



**Karin Satie Komati** holds a PhD in Electrical Engineering and an MSc in Informatics from the Federal University of Espírito Santo (UFES), where she also earned degrees in Computer Science and Electrical Engineering. A professor since 1998, she has been frequently honored by graduating classes as a commencement speaker and distinguished faculty member throughout her career. She is currently a professor at the Federal Institute of Espírito Santo (Ifes) - Serra Campus, teaching in the Information Systems undergraduate program and the Master's in Applied Computing. Her leadership at Ifes includes two terms as Director of Research, Graduate Studies, and Extension (DPPGE), as well as serving as Research Coordinator and Graduate Program Coordinator. Her institutional impact is highlighted by her leadership in establishing the Master's programs in

both Control and Automation Engineering and Applied Computing, in addition to contributing to the successful proposal for the PhD in Metallurgical and Materials Engineering. Her research focuses on Digital Image Processing, Computer Vision, Data Science, and Machine Learning, and she is the lead investigator of the Nu[Tec]<sup>2</sup> research group. Active in the scientific community, she served as the Vice-Chair of the SBC (Brazilian Computer Society) Graduate Coordinators Forum (2023-2024) and, since 2025, has held the position of Regional Vice-Secretary of the SBC for the state of Espírito Santo. Her scientific output exceeds 200 publications and the supervision of over 130 students. She has led or participated in more than 70 projects and received more than 15 awards at technical-scientific events. Her strong ties with the industry include partnerships with major organizations such as ArcelorMittal and Mogai, supported by funding agencies including CAPES, CNPq, and FAPES. Furthermore, she has served as an advisor to SETEC/MEC on 13 occasions and is currently the Editor-in-Chief of the Ifes Ciência journal.



**Vítor E. Silva Souza** obtained his Masters degree at Federal University of Espírito Santo (UFES), Brazil and his PhD degree at the University of Trento, Italy. Vítor is an associate professor at the Department of Computer Science of the Technology Faculty at UFES, teaching in the Computer Science and Computer Engineering undergraduate courses and also in the Postgraduate Program in Computer Sciences (Masters and PhD courses). At UFES, he leads the Software Engineering Practices Laboratory (LabES) and coordinates outreach projects with the participation of several undergraduate students. He is also a senior member of the Ontology & Conceptual Modeling Research Group (NEMO), conducting research and supervising students in the areas of Ontology Engineering, Conceptual Modeling and Software Engineering, with special interest in the fields of Requirements Engineering, Web Engineering and the

publication of Linked Data in the so-called Semantic Web. At the Brazilian Computer Society (SBC), Vítor has worked with the Education Commission as the chair of the Post-Graduate Coordinators Forum between 2019 and 2021 and has been, since 2023, the Regional Secretary of SBC for the state of Espírito Santo, Brazil.

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