



CBSOFT'25

XVI CONGRESSO BRASILEIRO DE SOFTWARE: TEORIA E PRÁTICA
22 A 26 DE SETEMBRO | RECIFE/PE

Programação

Horários BRT/GMT-3

22/09/2025

09:00–10:30

CBSoft Ensino Médio: Sessão 1

Sala: Sala Manuel Bandeira I

Chair: Byanca Silva (UFPE)

Sessão: Sessão 1

•Papers:

- [09:00–09:05] **Abertura** – Kiev Gama (UFPE) e Vinicius Garcia (UFPE)
- [09:05–09:30] **Debugando a Vida: Minha Trajetória na Tecnologia** – Jorge Vaz Filho (Assure Soft)
- [09:30–10:00] **Construindo pontes com a tecnologia** – Esmyrma Oliveira Cavalcanti (NTT Data)
- [10:00–10:30] **Da Escola Pública ao Ensino Superior: Caminhos Possíveis na Tecnologia** – Jorge Alexandre de Araújo (CESAR)

LATAM School: Opening + Keynote

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

Sessão: Keynote

•Papers:

- [09:00–09:05] **Opening** –
- [09:05–10:30] **Keynote: Research Ethics for Software Engineering Studies Involving Human Beings** – Everton Cavalcante (UFRN)

VEM: ST1

Sala: Sala Manuel Bandeira III

Sessão: Session 1

•Papers:

- [09:30–09:50] **Opening** –
- [09:50–10:10] **Análise e Caracterização de Ferramentas Automatizadas de Refatoração** – Matheus Machado de Oliveira Andrade (PUC Minas), Samara Martins (PUC Minas), Cleiton Silva Tavares (PUC Minas), Leonardo Cardoso (PUC Minas), Laerte Xavier (PUC Minas), Lucila Ishitani (PUC Minas)
- [10:10–10:30] **Classificação de Funções em Engenharia Reversa de Malware: Uma Análise Comparativa de Estratégias de Machine Learning** – Vitor Silva Reis (UFSJ), Elverton Fazzion (UFSJ), Elder José Reoli Cirilo (UFSJ)

AIWare LATAM: ST1 (fechado)

Sala: Sala Manuel Bandeira IV

(sem papers ou sessão fechada)

WBOTS: ST1

Sala: Sala Mauro Mota I

Sessão: ST1

•Papers:

- [09:15–09:27] **Template-Driven Specification of Requirements for LLM-Based Chatbots** – Caio Vinícius Melo da Silva (USP Leste, Brasil), Ana Rocio Cardenas Maita (USP, Brasil), Gregorio

Assagra de Almeida Filho, Carlos Henrique Camillo da Silva (EACH, University of São Paulo, Brasil), Gabriel Dimant (USP, Brasil), Renato Augusto Almeida (Itaú Unibanco S.A., Brasil), Guilherme Costa (Itaú Unibanco S.A., Brasil), Anna Martha Cintra Araujo (Itaú Unibanco S.A., Brasil), Barbara Correia Dos Santos Santana, Enio Alterman Blay, Sarajane Marques Peres (USP, Brasil)

•[09:27–09:39] **Do LLMs support generating code that is compliant with creational design patterns?** – Caio Machado (USP, Brasil), Eduardo Kugler Viegas (Pontifícia Universidade Católica do Paraná, PUC-PR, Brasil), Silvana Morita Melo (UFGD, Brasil), Leo Natan Paschoal (PUCPR, Brasil)

•[09:39–09:51] **Tecnologias para Avaliação da Experiência do Usuário em Chatbots: Um Mapeamento Sistemático da Literatura** – Maria Luiza Rocha (UNIPAMPA, Brasil), Pietra Soares, Luiz Rafael Jacques Caldeira, Paulo Souza (Federal University of Pampa, Brasil), Ricardo Vilela (UNICAMP, Brasil), Pedro Henrique Dias Valle (USP, Brasil), Williamson Silva (UFCA, Brasil)

•[09:51–10:03] **Evaluating LLM-Based Chatbots through Touchpoint-Driven Process Models** – Carlos Henrique Camillo da Silva (EACH, University of São Paulo, Brasil), Ana Rocio Cardenas Maita (USP, Brasil), Gregorio Assagra de Almeida Filho, Caio Vinícius Melo da Silva (USP Leste, Brasil), Gabriel Dimant (USP, Brasil), Renato Augusto Almeida (Itaú Unibanco S.A., Brasil), Guilherme Costa (Itaú Unibanco S.A., Brasil), Anna Martha Cintra Araujo (Itaú Unibanco S.A., Brasil), Barbara Correia Dos Santos Santana, Enio Alterman Blay, Sarajane Marques Peres (USP, Brasil)

•[10:03–10:15] **OrchestraAI: A Multi-Agent Generative AI for Software Development** – João Luiz Bione da Silva Holanda (UNILASALLE RJ - Instituto Superior de Educação La Salle, Brasil), Thiago Silva de Souza (IBMEC-RJ, Brasil)

•[10:15–10:27] **An Experience Report on User-Centered Chatbot Design through Design Thinking** – Bianca Maia Ribeiro (UNIPAMPA, Brasil), Kauã Henrico da Silva Souza (UNIPAMPA, Brasil), Leonardo Goncalves da Silva (UNIPAMPA), João Villa (UNIPAMPA, Brasil), Ricardo Vilela (UNICAMP, Brasil), Pedro Henrique Dias Valle (USP, Brasil), Williamson Silva (UFCA, Brasil)

SAST: ST1

Sala: Sala Mauro Mota II

Sessão: ST1: AI and LLMs for Test Automation

•**Papers:**

•[09:00–09:04] **Opening** –

•[09:05–09:18] **Evaluating LLMs for Multimodal GUI Test Generation in Android Applications** – Nayse Fagundes (UFPE), Leopoldo Motta Teixeira (UFPE)

•[09:19–09:32] **Generating Exploratory Test Suites with ChatGPT: Insights from an Empirical Study** – Natália Salvino André, Everton L.G. Alves (Federal University of Campina Grande)

•[09:33–09:46] **DroidOrchestrator: Container-Based Framework for Automation of Customized Android Security Testing Environment Generation** – Dario Fernandes Filho (UFPR), Christian Debovi Paim de Oliveira, Cláudio Torres Junior (UFPR), André R. A. Grégio (UFPR)

•[09:47–10:00] **On the Energy Footprint of Using a Small Language Model for Unit Test Generation** – Rafael Serapilha Durelli (UFLA), Andre Takeshi Endo (UFSCAR), Vinicius Durelli (UFSCAR)

•[10:01–10:14] **Detecção de Conflitos Semânticos com Testes Gerados por LLM** – Nathalia Barbosa (Centro de Informatica - CIn/UFPE), Paulo Borba (UFPE), Leuson Da Silva (Polytechnique Montreal)

•[10:15–10:21] **Improving Bug Reporting by Fine-Tuning the T5 Model: An Evaluation in a Software Industry** – Davi Menezes (Sidia Instituto de Ciência e Tecnologia), Leonardo Tiago (Sidia Instituto de Ciência e Tecnologia), Flavia Camila Moraes de Oliveira (Sidia Instituto de

Ciência e Tecnologia), Ana Paula Silva (Sidia Instituto de Ciência e Tecnologia), Lennon Chaves (Universidade Federal do Amazonas UFAM)

- [10:22–10:28] **The Influence of Using LLMs on the Activities of a Software Testing Team: An Industry Case** – Flavia Camila Moraes de Oliveira (Sidia Instituto de Ciência e Tecnologia), Leonardo Tiago (Sidia Instituto de Ciência e Tecnologia), Lennon Chaves (Universidade Federal do Amazonas UFAM)

11:00–12:30

CBSOFT Ensino Médio: Sessão 2

Sala: Sala Manuel Bandeira I

Chair: Byanca Silva (UFPE)

Sessão: Sessão 2

•**Papers:**

- [11:00–11:30] **Por Trás da Barra de Busca: Como A Ciência e a Criatividade Movem o Google** – Angelo Menezes (Google)
- [11:30–12:00] **Como uma tecnologia desenvolvida “na garagem” me levou de Olinda para o mundo** – Bruno Pinheiro (Liferay)
- [12:00–12:30] **Além do Código: Carreiras em Jogos e as Surpreendentes Formações que Podem te Levar lá** – Tulio Caraciolo (Manifesto Games)
- [12:30–13:00] **Vivências na graduação** – Painel Estudantes do CIn

LATAM School: Mentoring session 1

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

Sessão: Requirements, software architecture, coding, and building

•**Papers:**

- Analysis of Intentional Models for Pragmatic Interoperability** – Roberto Figueredo (UFBA, Brazil), Célia Ghedini Ralha (UnB, Brazil), Julio Leite (PUCRIO, Brazil), Rita Suzana Pitangueira Maciel (UFBA, Brazil), Daniela Barreiro Claro (Federal University of Bahia, Brazil)
- Automated Identification of Software Architectural Issues** – Armando Sousa (Federal University of Piauí, Brazil), Lincoln S. Rocha (Federal University of Ceará, Brazil)
- On the Definition of a Process for Migrating Monolithic Web Applications to Micro Front-ends** – Djalma Antony Lemos Rodrigues (UFRN, Brazil), Everton Cavalcante (UFRN, Brazil)
- The Capability of LLMs in Generating Programs According to Software Design Patterns** – Caio Machado (USP, Brazil)
- An Intelligent Platform to Support Decision Making on Quality Metrics for Experimentation in Blockchain Systems** – Raphael Lima Saraiva (Uece, Brazil), Allysson Alex Araújo (Universidade Federal do Cariri, Brazil), Jerffeson Teixeira de Souza (Uece, Brazil)
- A Study of the Evolution of the Second Version of Robot Operating System (ROS 2) with a Focus on Energy Efficiency** – Maciel Borges (UTFPR, Brazil), José Augusto Fabri (UTFPR, Brazil), Michel Albonico (UTFPR, Brazil)
- Legacy Systems: Persistent Patterns and Technical Roots** – Eduardo Lemos (UFPE, Brazil), Vinicius Cardoso Garcia (UFPE, Brazil)
- Code Modernization with LLMs: Empirical Insights from API Migration Scenarios** – Silas Eufrásio (UFC, Brazil), Anderson Uchôa (UFC, Brazil)
- Guidance Package for Artifact Building and Sharing (GPABS)** – Ana Paula Vasconcelos (UFPE, Brazil), Fernanda Madeiral (UFPE, Brazil), Sergio Soares (UFPE, Brazil)

• **An Actionable Framework for Improving Blockchain Developer Experience (BcDEX)**

– Pamela de Soares Sousa (Uece, Brazil), Allysson Alex Araújo (Universidade Federal do Cariri, Brazil), Jerffeson Souza (Uece, Brazil)

• **Code Smell Classification in Python: Are Small Language Models Up to the Task?** – Igor

Soares de Oliveira (PUCRIO, Brazil), Juliana Alves Pereira (PUC Rio, Brazil)

• **Mapping and Mitigating Bottlenecks in the Linux Kernel Development Model** –

David Tadokoro (USP, Brazil), Paulo Meirelles (USP, Brazil)

• **Metrics and Quality in Agile Low-Code Environments: Technical Debt Tracking continuous evaluation and decision-making support** – Renato Domingues (UFRPE, Brazil),

Marcelo Marinho (UFRPE, Brazil), Mário J. Silva (INESC, Portugal)

• **Human-AI Collaboration in Code: Investigating Developer Experience with LLM-Based**

Tools – Sabrina Carlé Winckler (Instituto de Informática da Universidade Federal do Rio Grande do Sul, Brazil), Leticia Machado (UFRGS, Brazil)

• **Code Generation with Small Language Models: A Deep Evaluation on Codeforces** – Débora

Souza (Federal University of Campina Grande, Brazil), Rohit Gheyi (Federal University of Campina Grande, Brazil)

• **Use of Generative Artificial Intelligence in Change Impact Analysis: A Comparative Study** –

Vinicius Costa Girard (UFPA, Brazil), Cleidson de Souza (UFPA, Brazil)

• **Automated Analysis of Developer Discussions in Clone-Introducing Code Reviews** – Italo

Uchoa (Uece, Brazil), Matheus Paixão (Uece, Brazil)

• **Ensuring Code Integrity in the Era of AI-Assisted Software Development** – Arthur Pílon da

Silva (USP, Brazil), Paulo Meirelles (USP, Brazil)

• **Improving Pull Request Review Experience Through the Representation of Code**

Dependencies – Vinícius Resende Barbosa (Centro de Informática - CIn/UFPE, Brazil), Ykaro dos Santos Albuquerque, Paulo Borba (UFPE, Brazil)

• **Refactoring Python Code with LLM-Based Multi-Agent Systems: An Empirical Study in ML**

Software Projects – Alexander Puma Pucho (UNICAMP, Brazil), Bruno B. P. Cafeo (UNICAMP, Brazil)

• **Explainability Requirement in Machine Learning-Based Systems** – Livia Mancine (IF Goiano,

Brazil), Renato Bulcão-Neto (UFG, Brazil)

• **Exploring GenAI in Requirements Engineering** – Guilherme Vaz Pereira (PUCRS, Brazil),

Rafael Prikladnicki (PUCRS, Brazil)

• **Empirical evaluation of the efficiency and feasibility of security requirements**

specification techniques in agile processes – Lucas de Almeida (USP, Brazil)

• **A Generative Artificial Intelligence Environment for Specification and Quality Evaluation**

of Requirements in IoT-Based Healthcare Software Systems – Sabrina Rocha (UFRJ, Brazil), Kathia Marçal de Oliveira (Université de Valenciennes et du Hainaut-Cambrésis, France), Claudio Miceli de Farias (UFRJ, Brazil), Guilherme Horta Travassos

• **Less Effort, More Quality: Automating User Stories Generation with LLMs** – Reine Santos

(Ufam, Brazil), Ana Carolina Oran (Ufam, Brazil), Bruno Gadelha (Ufam, Brazil)

• **Requirements engineering with LLMs: challenges, promises, and paths to practical**

adoption – Newton Almerão (Instituto de Informática da Universidade Federal do Rio Grande do Sul, Brazil), Leticia Machado (UFRGS, Brazil)

• **Fairness Management Model as a Non-Functional Requirement in Contextualized**

Intelligent Systems – Lourdes Romera (Universidad Nacional del Nordeste, Argentina), Emanuel Irrazabal, Antonela Tommasel (ISISTAN - Universidad Nacional del Centro de la Pcia. de Buenos Aires, Argentina)

VEM: ST2

Sala: Sala Manuel Bandeira III

Sessão: Session 2

•Papers:

- [11:00–11:20] **A Study of Popular Artificial Intelligence Python Modules in Open Source Projects** – Camila Reno (UNIFEI), João Marcos Cardoso (UNIFEI), Viviane Cordeiro (UNIFEI), Paulo Meirelles (USP), Phyllipe Francisco (UNIFEI)
- [11:20–11:40] **An Exploratory Study of Decorators in the TypeScript Programming Language** – Luiz Martins, Phyllipe Francisco (UNIFEI), Paulo Meirelles (USP)
- [11:40–12:00] **Estratégias de ensino para incentivar a participação consistente em projetos de Software Livre** – David Tadokoro (USP), Rafael Passos (USP), Paulo Meirelles (USP)
- [12:00–12:20] **DUKS: visualizações e análises unificadas para o Kernel Linux** – Rafael Passos (USP), Arthur Piloni da Silva (USP), David Tadokoro (USP), Paulo Meirelles (USP)

AIWare LATAM: ST2 (fechado)

Sala: Sala Manuel Bandeira IV

(sem papers ou sessão fechada)

WBOTS: ST2

Sala: Sala Mauro Mota I

Sessão: ST2

•Papers:

- [11:00–11:12] **Middleware para Intercepção de Dados Sensíveis em Chatbots com Modelos de Linguagem de Grande Porte (LLMs)** – Felipe Diego Lobato da Silva (USP, Brasil), Thiago Adriano Coleti (UENP, Brasil)
- [11:12–11:24] **Explorando o Uso de Agentes Inteligentes na Geração Automatizada de Testes para APIs RESTful** – Ricardo Vilela (UNICAMP, Brasil), Stevão Alves de Andrade (Universidade de São Paulo/ICMC, Brasil), Eduardo Farias (NEES-UFAL), Williamson Silva (UFCA, Brasil), Pedro Henrique Dias Valle (USP, Brasil)
- [11:25–12:25] **Challenges and Opportunities** –
- [12:25–12:30] **Awards and Closing** –

SAST: ST2

Sala: Sala Mauro Mota II

Sessão: ST2: Test Smells and Quality in Software Testing

•Papers:

- [11:00–11:14] **An empirical evaluation of fuzz targets using mutation testing** – Bruno Ely Reis Garcia (USP), Simone do Rocio Senger Souza (USP)
- [11:15–11:28] **Ensuring Test Case Coverage through Multilabel Requirements Classification: A Feasibility Study with Pre-Trained Models** – Flavia Camila Moraes de Oliveira (Sidia Instituto de Ciência e Tecnologia), Ana Paula Silva (Sidia Instituto de Ciência e Tecnologia), Leonardo Tiago (Sidia Instituto de Ciência e Tecnologia), Lennon Chaves (Universidade Federal do Amazonas UFAM)
- [11:29–11:42] **Career Mapping in Software Testing: insights into the professional profile** – José Wilton R. A. Filho, Francisco Adam Andrade, Jarbele Coutinho (Universidade Federal Rural do Semi Árido), Wilkerson L. Andrade (UFCG)
- [11:43–11:56] **An Empirical Study on the Co-occurrence of Test Smells** – Railana Santana (UFBA), Luana Martins, Marcio Ribeiro (UFAL), Ivan C Machado (UFBA)
- [11:57–12:10] **On the prevalence of test smells in mobile development** – Tassio Guerreiro Antunes Virginio (UFBA), Marcio Ribeiro (UFAL), Ivan do Carmo Machado (UFBA)

- [12:11–12:17] **A Journey of Functional Test Evolution in the Public Sector** – Bruno Pedraça de Souza (COPPE/UFRJ), Rebeca Campos Motta, Jessica Soares da Costa, Elaine Nunes (COPPE/UFRJ), Gustavo Rocha Barreto Pinto, Rafael Maiani de Mello (UFRJ)
- [12:18–12:24] **Automação de Testes de APIs REST no SisNIR** – João Victor de Moraes, Neumar Malheiros (UFLA), Ricardo Terra (UFLA)
- [12:24–12:31] **Simulating Non-Functional Communication Requirements in Automotive Software** – Larissa Pestana (Stellantis), Breno Miranda (UFPE)

14:00–15:30

Trilha da Indústria: ST1

Sala: Sala Manuel Bandeira I

Sessão: Abertura e Sessão 1

•Papers:

- [14:00–14:05] **Abertura da Trilha da Indústria** – Karina Kohl, César França
- [14:05–14:35] **Scaling Data Management for Public Education: The Case of the Educational Hub Sistema Gestão Presente** – Rafael Serapilha Durelli (UFLA), Everson Mizael Cortez Silva (IFRN), Diego Roberto Colombo Dias (UFES), Filipe de Carvalho Pinto Raulino (IFRN), Thales Miranda de Almeida Vieira (Universidade Federal de Alagoas/UFAL), Bruno Lopes (UFSCAR), Ivo Augusto Andrade Roch Calado (IFAL)
- [14:35–15:05] **Log-Driven Autonomic Auto-Scaling with LSTM Forecasting: An Industrial Case in On-Premises Containerized Systems** – Rafael Serapilha Durelli (UFLA), Everson Mizael Cortez Silva (IFRN), Diego Roberto Colombo Dias (UFES), Filipe de Carvalho Pinto Raulino (IFRN), Thales Miranda de Almeida Vieira (Universidade Federal de Alagoas/UFAL), Bruno Lopes (UFSCAR), Ivo Augusto Andrade Roch Calado (IFAL)
- [15:05–15:35] **Architectural Design for Scalability: Pé de Meia Incentive Savings Platform** – Diego Roberto Colombo Dias (UFES), Filipe de Carvalho Pinto Raulino (IFRN), Koiti Yasojima (UFRA), Rafael Serapilha Durelli (UFLA), Everson Mizael Cortez Silva (IFRN), Ivo Augusto Andrade Roch Calado (IFAL), Aluísio Rego, Thales Miranda de Almeida Vieira (Universidade Federal de Alagoas/UFAL)

LATAM School: Google

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

Sessão: Workshop by Google Professions

•Papers:

- [09:00–09:04] **Workshop by Google Professions: Workshop de Entrevistas para Engenharia de Software no Google** – Angelo Menezes e Otávio Dib (Google)

AIWare LATAM: ST3 (fechado)

Sala: Sala Manuel Bandeira IV

(sem papers ou sessão fechada)

MSSiS: Opening + Keynote Koorosh Aslansefat

Sala: Sala Mauro Mota I

Sessão: Opening + Keynote

•Papers:

- [14:00–14:10] **Opening** –
- [14:10–15:30] **Keynote: AI Safety and Explainability for Robots and Intelligent Systems** – Koorosh Aslansefat (University of Hull, United Kingdom)

SAST/VEM: Keynote Márcio Ribeiro

Sala: Sala Manuel Bandeira III

(sem papers ou sessão fechada)

16:00–17:30

Trilha da Indústria: Painel: CESAR/CISSA e Bradesco Sala:

Sala Manuel Bandeira I

Chair: César França (UFRPE)

Sessão: Painel: Desenvolvimento de Software Seguro, com CESAR/CISSA e Bradesco

•Papers:

•[16:00–17:30] **Painelista: Fábio Maia (CESAR/CISSA) –**

•**Painelista: Leon Júnior (Bradesco) –**

• —

VEM: ST3

Sala: Sala Manuel Bandeira III

Sessão: Session 3

•Papers:

•[16:00–16:20] **Gerenciamento Automatizado de Dependências: Um Estudo em Larga Escala sobre a Adoção do Dependabot** – Gabriel Estevão (PUC Minas), Letícia Lott (PUC Minas), Luana Fleury (PUC Minas), Yan Nalon (PUC Minas), Aline Brito (UFOP), Joana Gabriela Ribeiro de Souza (PUC Minas), Laerte Xavier (PUC Minas)

•[16:20–16:40] **How Readable Is LLM-Generated Code Snippets? A Comparison of ChatGPT, DeepSeek, and Gemini** – Giovanna Fernandes (IFTM), Carlos Eduardo Carvalho Dantas (IFTM), Marcelo de Almeida Maia (UFU)

•[16:40–17:00] **Analisando a Qualidade e Eficácia de Códigos Gerados por LLMs: Um Estudo com Problemas da Plataforma LeetCode** – Bernardo Aquino (PUC Minas), Aline Brito (UFOP), Cleiton Silva Tavares (PUC Minas), Danilo Boechat Seufitelli (CEFET-MG), João Pedro Oliveira Batisteli (PUCMG)

•[17:00–17:10] **Awards and Closing –**

LATAM School: Keynote patrocinadores

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

•Papers:

•[16:00–17:00] **Keynote: Da Academia para uma Big Tech** – Angelo Menezes (Google)

•[17:00–17:30] **Keynote: Unico –**

AIWare LATAM: ST4 (fechado)

Sala: Sala Manuel Bandeira IV

(sem papers ou sessão fechada)

MSSiS: ST1

Sala: Sala Mauro Mota I

Sessão: Sessão Técnica 1

•Papers:

•[16:00–16:10] **Explorando o Minecraft na Simulação de Sistemas Autoadaptativos: Um Estudo Baseado em Missões de Drones** – Gabryella Rodrigues, Kalil Rodrigues, Lucas Holanda, Vinícius dos Santos Alves, Luis Benevides, Matheus Chagas, Lucas Vieira Alves, Paulo Maia

•[16:10–16:20] **How Students Perceive Professional Competencies in Software Projects: A Cyclical Study on Human Behavior in Business Process** – Jéssyka Vilela

- [16:20–16:30] **LLMs, Engenharia de Requisitos e Simulação: Desafios e Oportunidades de Pesquisa** – Kauan Lopes, Lucas Moura, Emanuel Coutinho
- [16:30–16:40] **Sistema de Recomendação de Pontos de Interesse em Recife com Filtragem Baseada em Conteúdo e Passaporte Pernambuco** – Douglas Inácio Fragoso Ferreira, Everton Gomedé
- [16:40–16:50] **Uma Análise sob a Ótica de Simulação do Eixo Segurança de Software do Referencial de Formação do Curso de Bacharelado em CiberSegurança** – Emanuel Coutinho
- [16:50–17:00] **Uma Análise sobre o Impacto da Quantidade de Transações no Tamanho dos Blocos em Blockchain** – Alan Gomes, Israel Bessa Silva, Críston Souza, Emanuel Coutinho
- [17:00–17:10] **Uma Proposta de Interface Gráfica para Apoiar a Governança Relacional com Blockchain** – Alan Gomes, Emanuel Coutinho
- [17:10–17:20] **Uma Solução de Inferência de Culpabilidade em Cenários de Acidentes de Trânsito por Meio de VANETS** – Wagner Luiz Braga Bezerra, Alan Gomes, Emanuel Coutinho
- [17:20–17:30] **Awards and closing** –

SAST: ST3

Sala: Sala Mauro Mota II

Sessão: ST3: Resilient and Domain-Specific Testing

•**Papers:**

- [16:00–16:13] **Image2Test: Using ChatGPT to Build Manual Tests from Screenshots** – Manoel Aranda III (Universidade Federal de Alagoas/UFAL), Antônio Wagner (Universidade Federal de Alagoas/UFAL), Eduardo Barros (Universidade Federal de Alagoas/UFAL), Marcio Ribeiro (UFAL), Alessandro Garcia (Departamento de Informatica PUC-Rio), Balduino Fonseca (UFAL), Ivan do Carmo Machado (UFBA), Fabio Palomba (University of Salerno)
- [16:14–16:27] **On the Implementation of OS-Specific Tests: The CPython Case** – Ricardo de Sousa Job (Instituto Federal de Educação, Ciência e Tecnologia da Paraíba), André C. Hora (UFMG)
- [16:28–16:41] **RAVEN: Enhancing Test Request Reliability through Real-Time Verification in High-Complexity Systems** – Rayfran Rocha Lima (Sidia Institute of Science and Technology), Rodrigo Carvalho Silva
- [16:42–16:55] **Real-Time Feedback for BDD Test Scenarios Using AI-Based Classification** – David Brandao (POLI), Denis Marques (Universidade de Pernambuco), Cleyton Mário de Oliveira Rodrigues (Universidade de Pernambuco), Wylliams Barbosa Santos (University of Pernambuco)
- [16:56–17:09] **Teste de Resiliência do Celery: Uma Abordagem Experimental com Injeção de Falhas** – Pedro Lima, Breno Miranda (UFPE)
- [17:10–17:16] **Validation of Image Content Using LLMs and RAGs: A Strategy for Ensuring Compliance in Software Testing** – Wendell Marques (Samsung SIDIA), Cainã Oliveira, Carol Fernandes, Luiz Ribeiro, Edluce Leitão Veras, Gabriel Sampaio, Kauã Sanches, Renan Peres (Sidia Instituto de Ciência e Tecnologia)
- [17:17–17:23] **Application of Computer Vision to image review process in the software development** – Wendell Marques (Samsung SIDIA), Andrezza Bonfim (Sidia Instituto de Ciência e Tecnologia), Eduardo Peluchi de Oliveira Filho (Sidia Instituto de Ciência e Tecnologia), Edluce Leitão Veras (Sidia Instituto de Ciência e Tecnologia), Daniel Augusto Rodrigues Lima de Souza (Sidia Instituto de Ciência e Tecnologia), vinicius silva (Sidia Instituto de Ciência e Tecnologia)
- [17:24–17:30] **Deploying a Low-Cost Vision-Guided Cartesian Robot for Physical Interaction in Mobile Testing: An Industrial Case Study** – Matheus Lopes (UFPE), Breno Miranda (UFPE)

17:30–19:00

LATAM School: Mentoring session 2

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

Sessão: Software project management, human aspects of SE, research on SE

•Papers:

•Automating Narrative Visualization Evaluation: Benchmarking Multimodal Large-Language Models with the NaVi-Q Framework – Andrea Lezcano Airdi (Universidad Nacional del Nordeste, Argentina), Joel Marcori (Universidad Nacional del Nordeste, Argentina), Emanuel Irrazabal

•SoS Governance in Smart Cities: Towards Sustainable and Collaborative Integration – Gilmar Teixeira Junior (UFG, Brazil), Valdemar Vicente Graciano Neto (UFG, Brazil), Eliomar Araújo Lima (Federal University of Goiás, Brazil)

•LLM-Based Agents as Business Autonomous Entities: a New Architecture for Building Adaptive Information Systems – Anderson Gomes (Universidade Estadual do Ceará UECE, Brazil), Paulo Maia (Uece, Brazil)

•Automated Document Categorization for Legacy Public Systems – Ronivaldo Ferreira (Federal University of Para, Brazil), Gustavo Pinto (Federal University of Para, Brazil)

•Prompt Inception: An Approach to Support Software Engineers to Design Prompts for GenAI Models – Lennon Chaves (Universidade Federal do Amazonas UFAM, Brazil), Márcia S. Lima (Uea, Brazil), Tayana Conte (Ufam, Brazil)

•Mapping Developer-AI Conversations: Analyzing ChatGPT Use Across the Software Engineering Lifecycle – Raquel Zimmer (UFRGS/INF, Brazil), Leticia Machado (UFRGS, Brazil), Karina Kohl (UFRGS, Brazil)

•A domain-enriched approach for Root Cause Analysis in Software Incident Management – Rafael Sobrinho (UFMS, Brazil), Awdren de Lima Fontão (Federal University of Mato Grosso do Sul, Brazil)

•Modeling and Simulation of a System-of-Systems for Wildfire Prevention in the Brazilian Cerrado – Ana Clara Araujo Gomes da Silva (Instituto de Informática da Universidade Federal de Goiás, Brazil), Valdemar Vicente Graciano Neto (UFG, Brazil), Eliomar Araújo Lima (Federal University of Goiás, Brazil)

•Transforming Organizations with Business Process Management: A Method for Assessing Organizational Impacts from Multiple Perspectives – Carla Emanuele Meira Maranhao Gondim Ribeiro Batista (UFPE, Brazil), Jéssyka Vilela (UFPE, Brazil)

•An Approach to Support Knowledge Acquisition for Engineering AI-Enabled Systems – Marina Araújo (PUC Rio, Brazil), Romeu Ferreira de Oliveira (UFRN, Brazil), Marcos Kalinowski (PUCRIO, Brazil)

•DIP-AI: Discovery in Innovation Projects & Artificial Intelligence – Mariana Martins (UFG, Brazil), Lucas Rocha, Taciana Novo Kudo (UFG, Brazil), Renato Bulcão-Neto (UFG, Brazil)

•Productivity in Software Engineering capstone projects: a study based on the SPACE Framework – Vinicius Feitosa Gonçalves (UFMS, Brazil), Patricia Gomes Fernandes Matsubara (Universidade Federal do Mato Grosso do Sul, Brazil)

•LLMs to Support Experimentation in Software Engineering – Larissa Galeno (UFRJ/COPPE/PESC, Brazil), Guilherme Horta Travassos (COPPE/UFRJ, Brazil)

•Addressing the Replication Crisis in Software Engineering: Guidelines for Mitigating Threats to Validity and Promoting Replicability – Ivanildo de Azevedo (UFPE, Brazil), Sergio Soares (UFPE, Brazil), Eudis Oliveira Teixeira (Instituto Federal de Educação, Ciência e Tecnologia do Sertão Pernambucano, Brazil)

•Decoding the Impostor Phenomenon: Unveiling Factors and Mitigation Strategies for Software Professionals – Paloma Guenes Costa (PUC-Rio, Brazil), Marcos Kalinowski (PUCRIO, Brazil)

• **Mapping of Product Manager competencies in software development's journey –**

Lucas Reis Abreu (UFMA, Brazil), Luis Jorge Enrique Rivero Cabrejos (UFMA, Brazil), Davi Viana (UFMA, Brazil)

• **Exploring the Impact of Music on Brain Activity During Testing: An EEG-based**

Investigation – Dhyego Tavares (UFBA, Brazil), Eduardo Almeida (UFBA, Brazil)

• **Towards a model to improve Developer Experience of LGBTQIAPN+ software**

professionals. – Edvaldo Roberto Wassouf Junior (UFMS, Brazil), Awdren de Lima Fontão (Federal University of Mato Grosso do Sul, Brazil)

• **Strategies to Support Underrepresented Groups in Software Development Teams** – Reyndre Santos (UFPE, Brazil), Kiev Gama (UFPE, Brazil), Fernando Castor (University of Twente, Netherlands)

• **Emotions and Polarization in Online Tech Support Networks** – Jessica Barbara da Silva Ribas (PUCRIO, Brazil), Juliana Alves Pereira (PUC Rio, Brazil)

• **Understanding IT Talent Turnover in Brazil: A Hybrid Study with Interviews and**

Agent- Based Simulation of Retention Strategies – Eduardo Augusto Ferreira (CEFET/RJ, Brazil), Oscar Rete

• **The Role of Agile Retrospectives concerning Community Smells** – Carlos Fran Ferreira

Dantas (IFRN, Brazil), Tiago Massoni (Federal University of Campina Grande, Brazil)

• **The Professional's Perspective: A Study on Mandatory and Voluntary Corporate Training in the Software Engineering Industry.** – Rodrigo Siqueira (CESAR School, Brazil)

• **From Barriers to Solution in GenderMag: An Exploratory Study with AI Support** – Christian

Silva (Ufam, Brazil), Tayana Conte (Ufam, Brazil), Wilson Prata (SIDIA, Brazil)

• **Promoting Civil Conversations in Collaborative Software Development Through Individual**

Feedback and Gamification – Carlos Jefté, Antônio Gomes, Eric Mesquita, Emanuel Avila (UFC, Brazil), Arthur Mesquita, Matheus Rabelo (Universidade Federal do Ceará UFC, Brazil), Mairieli Wessel (Radboud University, Netherlands), Anderson Uchôa (UFC, Brazil)

• **Metaverses: A New Frontier for Remote Software Development Teams** – Ayumi Aoki

Santana (Ufam, Brazil), Márcia S. Lima (Uea, Brazil), Tayana Conte (Ufam, Brazil)

• **Impact Analysis on DEIA Policies** – Joanne Carneiro (LES-DI/PUC-Rio, Brazil), Juliana

Alves Pereira (PUC Rio, Brazil)

• **STEAM TECh +G: Methodological guide for the implementation of STEAM approach from a gender perspective in technical education.** – Maria Alejandra Lopez Hurtado (University of

Cauca, Colombia), Cesar A. Collazos (Department of Computer Science, Universidad del Cauca, Colombia), Carina Soledad González (ULL, Spain)

Reunião Comitê Diretivo

VEM Sala: Sala Manuel

Bandeira III (sem papers ou sessão fechada) **Reunião**

Comitê Diretivo SAST Sala:

Sala Mauro Mota II

(sem papers ou sessão fechada)

23/09/2025

09:00–10:30

SBCARS Keynote Mathieu Acher

Sala: Sala Manuel Bandeira I
(sem papers ou sessão fechada)

ISE Keynote Rodrigo Vilar + ST1

Sala: Sala Manuel Bandeira III

Sessão: Keynote 1 e ST1

•**Papers:**

- [09:00–09:05] **Opening** – Workshop chairs
- [09:05–09:35] **Keynote: Using LLMs to Drive Agile Project Intelligence at VIRTUS/UFCG** – Rodrigo Vilar
- [09:35–09:48] **Reference Process for Integrating Data Science Workflows and Governance in Big Data Systems** – Victória T Oliveira, Rossana Maria de Castro Andrade, Pedro Almir Martins Oliveira, Ismayle Santos, Miguel Franklin de Castro
- [09:49–10:02] **Investigating the use of Large Language Models in software security requirements: Results of a literature review** – Amália Melo, Lucas de Almeida, Lina Garcés
- [10:03–10:16] **Detection of Biolayer Formation Instant in SPR Biosensors Using Neural Networks** – Rafael Nascimento, Carlos Filho, Antonio Marcus Nogueira Lima
- [10:17–10:30] **Development of an Intelligent Surface Plasmon Resonance Based Sensor: practical examples** – Leiva Casemiro Oliveira, José Saraiva, Silvio Fernandes, Arthur Aprígio de Melo, Antonio Marcus Nogueira Lima

SE4FP Keynote Paulo Valente + ST1

Sala: Sala Mauro Mota I

Sessão: Keynote e ST1

•**Papers:**

- [09:00–10:00] **Opening and Keynote: Como a Programação Funcional Transforma o Design de Sistema** – Paulo Valente
- [10:00–10:10] **On the Maintenance of Large-Scale Elixir Tests** – Livia Barbosa (Remote)
- [10:10–10:20] **Adoção de Boas Práticas e Integração Contínua em Repositórios GitHub com Linguagens Funcionais** – Rullian Pianca (IFPR), Jailton Coelho (IFPR)
- [10:20–10:30] **Bend: Immutability and Native Parallelism as a Solution to Parallel Programming Challenges** – Ramon Jales (UFRN), Samuel Xavier de Souza (UFRN)

LATAM School: Keynote Lionel Briand

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

•**Papers:**

- [16:00–17:00] **Keynote: TBD** – Lionel Briand (University of Ottawa and Lero)

11:00–12:30

SBCARS: Abertura + ST1

Sala: Sala Mauro Mota II

Sessão: ST1: Software Architecture and Microservices

•**Papers:**

- [11:00–11:15] **Opening** – Aline Amaral, Anderson Uchôa
- [11:15–11:30] **Agile Software Architecture: Perceptions on Quality and Architectural**

Technical Debt Management – Manoel Valerio da Silveira Neto (Pontifícia Universidade Católica do Paraná), Andreia Malucelli (Pontifícia Universidade Católica do Paraná), Sheila Reinehr (Pontifícia Universidade Católica do Paraná)

•[11:30–11:45] **Reengineering an Adaptive System to Dynamic Software Product Lines:**

An Experience report – Dhyego Tavares (Universidade Federal da Bahia), Nilton Flávio Sousa Seixas Sousa Seixas (Universidade Federal da Bahia), Mayki Oliveira (Universidade Federal da Bahia), Marcus Elias Silva Freire (Universidade Federal da Bahia), Rodrigo Rocha Gomes e Souza (Universidade Federal da Bahia), Frederico Araújo Durão (Universidade Federal da Bahia), Cassio Vinicius Serafim Prazeres (Universidade Federal da Bahia), Ivan do Carmo Machado (Universidade Federal da Bahia), Gustavo B. Figueiredo (Universidade Federal da Bahia), Maycon Peixoto (Universidade Federal da Bahia), Hércio M. Iwamoto (Universidade Federal da Bahia), Eduardo Almeida (Universidade Federal da Bahia)

•[11:45–12:00] **Reference Architectures for Digital Twins: Results of a Literature Review** –

Guilherme Mafrá da Costa (ICMC / Universidade de São Paulo), Lina Garcés (ICMC / Universidade de São Paulo)

•[12:00–12:15] **Automated Clustering of Microservices Using Natural Language Processing**

and Clustering Algorithms – Santiago di sabato, Guillermo Rodríguez (UNICEN), Claudia A. Marcos (Tandil University), Santiago Vidal (UNICEN), Renan Alves (Universidade Federal de Campina Grande), Danyllo Albuquerque (Universidade Federal de Campina Grande), Mirko Perkusich (Universidade Federal de Campina Grande)

•[12:15–12:30] **Espaço para perguntas extras / discussão geral** –

ISE Keynote Roberta Arcoverde + ST2

Sala: Sala Manuel Bandeira III

Sessão: Keynote 2 e ST2

•Papers:

•[11:00–11:30] **Keynote: Safe AI and AI-powered Safety** – Roberta Arcoverde (Google)

•[11:30–11:43] **Evaluating Large Language Models on the Classification of Different**

Technical Debt Types in StackOverflow Discussions – Lucas Amaral, Eliakim Gama, Matheus Paixão, Lucas Almeida Aguiar

•[11:44–11:57] **Do LLMs Suggest Consistent Identifiers? An Empirical Study on GitHub Pull**

Requests – Julyanara Rodrigues Silva, Carlos Eduardo Carvalho Dantas, Marcelo de Almeida Maia

•[11:58–12:11] **Constructing Developer Compatibility Graphs for Team Formation: An**

Industrial Case Study – Felipe Cunha, Mirko Perkusich, Danyllo Albuquerque, Kyller Gorgônio, Angelo Perkusich

•[12:12–12:25] **How Software Testers Perceive Large Language Models: A Focus Group Study**

with Lexicometric Analysis – Izabella Ribeiro de Souza Silva, Mirko Perkusich, Danyllo Albuquerque, Kyller Gorgônio, Angelo Perkusich

•[12:26–12:39] **A Bayesian Network for Evaluating Software Project Team Fit: An Industrial**

Case Study – Felipe Cunha, Mirko Perkusich, Danyllo Albuquerque, Kyller Gorgônio, Angelo Perkusich

•[12:40–13:00] **Awards and closing** –

SRLM@70: Celebrando a carreira de Silvio Meira

Sala: Sala Manuel Bandeira I

•Apresentações:

•[11:00–11:05] **Abertura** – Sérgio Soares (UFPE)

•[11:05–11:35] **Linguagens, engenharia de software, fábrica de teses e uma semântica formal de Silvio Meira** – Augusto Sampaio (UFPE)

•[11:35–12:05] **Do Silvio e CESAR: entre CPF e CNPJ, uma história de futuro com cheiro e cara de GENTE** – Roberta Fernandes (CESAR)

•[12:05–12:35] **O Porto Digital é uma construção coletiva de apaixonados pelo Recife** – (Claudio Marinho, Porto Marinho Ltd.)

SE4FP: ST2 + Pannel

Sala: Sala Mauro Mota I

Sessão: ST2 + Painel

•**Papers:**

- [11:00–11:10] **Optimizing Compilation Times for an Elixir Monolithic Codebase** – Livia Barbosa (Remote)
- [11:10–11:20] **Building Refactoring Tools: Insights from RefactorEx** – Gabriel Philippe Pereira (UFV), Lucas Vegi (UFV), Vladimir Oliveira Di Iorio (UFV)
- [11:20–11:30] **Compreendendo o Ecossistema de Software Elixir: Uma Abordagem Baseada em Redes de Suprimento de Software** – Francisco Victor da Silva Pinheiro (UFC), Maria Erilane (UFC), Emanuel Coutinho (UFC), Rossana Maria de Castro Andrade (UFC)
- [11:30–11:40] **ERLDA: Explorando Concorrência e Resiliência com SEDA em Erlang** – Fernando Areias (UTFPR), Adolfo Gustavo Serra Seca Neto (UTFPR)
- [11:40–11:50] **Towards an Automated Approach to Detect Code Smells in ReScript** – Maykon Nunes (UFC), Emanuel Coutinho (UFC), Carla Bezerra (UFC)
- [11:50–12:00] **Uma linguagem multiparadigma para o ensino integrado de Engenharia de Software e Programação Funcional.** – Leonardo Lucena (IFRN), Daniel Lucena (UFRN)
- [12:00–13:00] **Roundtable discussion: future directions of research in SE4FP** – Adolfo Neto (UTFPR), José Valim (Dashbit) - remotely, Carla Bezerra (UFC), João Brunet (UFCG), Paulo Valente (Nx Core Team)

LATAM School: Keynote Sarah Nadi

Sala: Sala Manuel Bandeira II

Chair: Lina Garcés (ICMC-USP)

•**Papers:**

- [11:00–12:30] **Keynote: Navigating Graduate School and Beyond** – Sarah Nadi (New York University Abu Dhabi)

14:00–15:30

Trilha da Indústria: ST2

Sala: Sala Manuel Bandeira IV

Sessão: Sessão 2

•**Papers:**

- [14:00–14:30] **Framework RAAR: Uma Abordagem Prática para Sinergia e Eficiência no Desenvolvimento de Software** – Rafael Augusto Scaraficci (CPQD), Rafael de Melo Cuba (CPQD), Renato Stancato (CPQD)
- [14:30–15:00] **Express Release Validation: Enhancing Quality in tight development timelines** – José Moreira (Sidia Instituto de Ciência e Tecnologia), Maria Deolinda Santana (Sidia Instituto de Ciência e Tecnologia), Gleiza Silva (Sidia Instituto de Ciência e Tecnologia), Raimundo Rocha (Sidia Instituto de Ciência e Tecnologia), Erick Bezerra (Sidia Instituto de Ciência e Tecnologia)
- [15:00–15:30] **Evolving Practices in Distributed R&D&I Projects: Bridging Academia and Industry Through Lightweight Collaboration** – Lincoln S. Rocha (Federal University of Ceará), Paulo A L Rego (UFC), Fernando Antonio Mota Trinta (UFC), Emanuele Santos (UFC), César Lincoln Cavalcante Mattos (UFC), Karla Souza, Camilo Almendra (UFC), Maria Alice Macêdo (UFC), Isabela Carvalho (UFC), Julia Nobrega, Maria Eduarda Silva Vieira (UFC), Eder Soares (Dell Computadores)

SE4Games Keynote Esteban Clua + ST1

Sala: Sala Manuel Bandeira III

Sessão: Keynote + ST1

•**Papers:**

- [14:03–14:33] **Keynote: Game Development in the Context of Software Engineering and Impacts in the Era of Generative AI** – Esteban Clua (UFF)
- [14:35–14:50] **An Extensible Plugin for Integrating High-Performance Collision Detection**

Broad-Phase Algorithms into Unity – Raul Costa Feitosa (Unifor), Andréia Formico (Unifor)

- [14:50–15:05] The Usability Engineering Lifecycle in Developing a Ludic Application about Scorpions for Children – Natália Satie Motokubo Halker (UFABC), André Luiz Brandão (UFABC), João Paulo Gois (UFABC)
- [15:05–15:20] **Assessing Frontier LLMs in Solving Game Development Problems:**

Preliminary Findings Across Three Game Engines – Thiago Vasconcelos (Unifor), Adams Castro Filho (Unifor), Guadalupe Ribeiro (Unifor), Andréia Formico (Unifor), Nabor Mendonça (Unifor)

- [15:20–15:28] **Consolidating a MAPE-K-Based Architecture for Dynamic Difficulty**

Adjustment: A Bottom-Up Approach – Carlos Henrique Rorato Souza (UFG), Luciana de Oliveira Berretta (UFG), Sergio Carvalho (UFG)

SRLM@70: Celebrando a carreira de Silvio Meira

Sala: Sala Manuel Bandeira IV

• **Apresentações:**

- [14:00–14:30] **A contribuição de Silvio para a SBC** – José Carlos Maldonado (USP-SC) e Thais Batista (UFRN)
- [14:30–15:00] **Silvio e o CIn como ele é...** – Paulo Borba (UFPE)
- [15:00–15:30] **A criação e Impacto do RiSE** – Eduardo Almeida (UFBA) e Vinicius Garcia (UFPE)

SBCARS: ST2

Sala: Sala Mauro Mota II

Sessão: ST2: LLMs and Microservices

• **Papers:**

- [14:00–14:15] **Dynamic Analysis for Detecting Microservices Antipatterns** – Leonardo Braz (Universidade Estadual de Campinas), Breno Bernard Nicolau de França (Universidade Estadual de Campinas), Bruno B. P. Cafeo (Universidade Estadual de Campinas)
- [14:15–14:30] **Toward Generating Microservice Architectures from Textual Requirements with Large Language Models** – Renan Alves (Universidade Federal de Campina Grande), Danylo Albuquerque (Universidade Federal de Campina Grande), Mirko Perkusich (Universidade Federal de Campina Grande), Guillermo Rodríguez (UNICEN), Andres Diaz-Pace (UNICEN), Kyller Gorgônio (Universidade Federal de Campina Grande), Angelo Perkusich (Universidade Federal de Campina Grande)
- [14:30–14:45] **Evaluation of the use of LLMs to Support Decision-Making in the Application of Design Patterns in Object-Oriented Software** – Vitor Colombo (Universidade Federal de Pelotas), Weslen Souza (Universidade Federal de Pelotas), Lisane Brisolara (Universidade Federal de Pelotas), Brenda Salenave Santana (Universidade Federal de Pelotas), Tatiana Aires Tavares (Universidade Federal de Pelotas)
- [14:45–15:00] **ImprovMLCQ: A Feature-Enriched Dataset for Advancing Code Smell Detection** – Joanne Carneiro (Pontifícia Universidade Católica do Rio de Janeiro), Jessica Barbara da Silva Ribas (Pontifícia Universidade Católica do Rio de Janeiro), Amanda Damasceno Santana (Universidade Federal de Minas Gerais), Eduardo Figueiredo (Universidade Federal de Minas Gerais), Juliana Alves Pereira (Pontifícia Universidade Católica do Rio de Janeiro)
- [15:00–15:30] **Espaço para perguntas extras / discussão geral** –

LATAM School: Panel

Sala: Sala Manuel Bandeira II

Chair: latam

• **Papers:**

- [14:00–15:30] **Panel: Building Futures: Career Prospects for Software Engineering Researchers.** – Mediator: Adolfo Neto (UTFPR), Participants: Fábio Kon (USP), Sabrina Marczak (PUC-RS), and Rossana Andrade (UFC)

SED: Abertura + Palestra

Sala: Sala Mauro Mota I

Sessão: Abertura e Palestra

• **Papers:**

- [14:00–14:10] **Abertura** – Everton Cavalcante (UFRN), Thais Batista (UFRN), Flavio Oquendo (Université Bretagne Sud, França)
- [14:10–15:30] **Palestra: Engineering Physical AI through Digital Twins and Simulation-based System Validation** – Pablo Oliveira Antonino (Fraunhofer IESE, Alemanha)

16:00–17:30

Trilha da Indústria: Painei

Sala: Sala Manuel Bandeira IV

Chair: Karina Kohl (UFRGS)

Sessão: Painei: Futuro da Trilha da Indústria

•Papers:

- Painelistas a serem definidos** –

SBCARS: ST3

Sala: Sala Mauro Mota II

Sessão: ST3: IoT, Sustainability, and Tools

•Papers:

- [16:00–16:15] **CLASSIC: Classroom Attendance System on Smart IoT and Edge Computing with Facial Recognition** – Marlon Duarte (Universidade Federal do Ceará), Marciel Barros Pereira (Universidade Federal do Ceará), Filipe de Matos (Universidade Federal do Ceará)
- [16:15–16:30] **Comparing the Environmental Footprint of Web Stacks in the RealWorld Apps** – Allysson Guimarães dos Santos Silva (Universidade Federal do Agreste de Pernambuco), Rodrigo Andrade (Universidade Federal do Agreste de Pernambuco)
- [16:30–16:45] **RAISE: A Self-Hosted API for Efficient Data Mining from GitHub and Jira** – Breno Neves (Pontifícia Universidade Católica do Rio de Janeiro), Daniel Coutinho (Pontifícia Universidade Católica do Rio de Janeiro), Eduardo Sardenberg (Pontifícia Universidade Católica do Rio de Janeiro), Arthur Alesi, Marcelo Machado, Johny Arriel (Pontifícia Universidade Católica do Rio de Janeiro), Ana Luísa Cavalcante, Juliana Alves Pereira (Pontifícia Universidade Católica do Rio de Janeiro)
- [16:45–17:30] **Espaço para perguntas extras / discussão geral** –

SE4Games: ST2 + Painei

Sala: Sala Manuel Bandeira III

Sessão: Painei + ST2

•Papers:

- [16:00–16:15] **An Open-Source Visual Tool for Modeling, Validating, and Exporting Decision Trees for Game Development** – Eduardo Martins (Unifor), Rafael Garcia Barbosa (Unifor), Andréia Formico (Unifor)
- [16:15–16:30] **Impactos da IA Generativa na Qualidade de Software de Jogos Digitais: Uma Análise da Indústria com Base na ISO 25010** – Izequiel Norões (Unifor), Adriano Bessa (Unifor)
- [16:30–16:45] **Diretrizes baseadas em requisitos para o Design de Jogos Sérios para Pessoas com TEA** – Bruna Barbosa (UFG), Luciana de Oliveira Berretta (UFG), Sergio Carvalho (UFG)
- [16:50–17:20] **Painei: AI and the Future of Game Development** – Tulio Caraciolo (Geppetto & Manifesto Games), Nabor Mendonça (Unifor)
- [17:20–17:30] **Best Paper Award & Closing** – PC Co-Chairs: Andréia Formico (Unifor), Troy Kohwalter (UFF)

SRLM@70: Celebrando a carreira de Silvio Meira

Sala: Sala Manuel Bandeira I

•Apresentações:

- [11:00–11:05] **O Modelo Educacional Inovador da CESAR School: Transformando vidas através do Conhecimento** – Helda Barros (CESAR)
- [11:05–11:35] **Fechamento** – Silvio Meira

LATAM School: Keynote Armando Fox + Mentoring

Sala: Sala Manuel Bandeira II

Chair: latam

•Papers:

•[16:00–17:00] **Keynote: LLMs and You** – Armando Fox (University of California at Berkeley)

•**How Perceptions and Statistics Reveal the Development of Technical and Non-**

Technical Skills in Computer Engineering Students – Victória Cavalcante (UFAC, Brazil), André Cacao (UFAC, Brazil), Catarina Costa (UFAC, Brazil), Alessandreia Marta de Oliveira (UFJF, Brazil)

•**Supporting Software Engineering Educators: A Learning-Theory-Based Tool to**

Instructional Design – Lucas Sarmiento de Araújo (UFAM, Brazil), Eduardo James Pereira Souto (UFAM, Brazil), Ana Carolina Oran (UFAM, Brazil)

•**Effectiveness of Competency-based Learning: Educational Process Management through**

Access, Cognition, and Behavior in Higher Education – Priscilla Mendes dos Santos (SENAC, Brazil), Jéssyka Vilela (UFPE, Brazil)

•**AI Support for Test Debt Prevention.** – Levi Almeida da Silva (UECE, Brazil), Ismayle Santos (UECE, Brazil), Rossana Maria de Castro Andrade (UFC, Brazil)

•**A Metric-Driven Automated Approach to Evaluating Unit Tests Generated by Large**

Language Models – Victor Anthony Alves (UFC, Brazil), Carla Bezerra (UFC, Brazil), Ivan C Machado (UFBA, Brazil)

•**Co-evolution of Test and Production Code: Empirical Evidence, Visual Perceptions, and**

Developer Perspectives – Charles Miranda (Federal University of Piauí, Brazil), Guilherme Avelino (Federal University of Piauí, Brazil), Pedro de A. dos Santos Neto (UFPI, Brazil)

•**What Developers Think About Test Smells: An Empirical Study in JavaScript** – Jhonatan De

Jesus Oliveira (Universidade do Estado da Bahia – UNEB, Brazil), Larissa Rocha Soares Bastos (Universidade do Estado da Bahia – UNEB, Brazil)

•**Leveraging N-Version Testing to Define Approximate Oracles for Performance Testing –**

Críssia Marcelino (UFPE, Brazil), Breno Miranda (UFPE, Brazil)

•**An Interpreter-based Framework for Static Analysis of Variability in Space and Time –**

Tayná Vieira (UnB, Brazil), Vander Ramos Alves (UnB, Brazil), Leopoldo Motta Teixeira (UFPE, Brazil)

•**Romalia: A Language-Independent Approach to Detect and Refactor Test Smells** – Publio

Silva (UFC, Brazil), Carla Bezerra (UFC, Brazil), Ivan do Carmo Machado (UFBA, Brazil)

•**Design of Empirically-Grounded Mutation Operators for Terraform IaC** – Isadora Ribeiro

(Instituto de Computação, Universidade Federal Fluminense, Brazil), Vânia de Oliveira Neves (UFF, Brazil)

•**Testing Big Data Systems: A Multivocal Review and LLM-Driven Support Tool** – Icaro de

Oliveira (Universidade Estadual do Ceará – UECE, Brazil), Ismayle Santos (UECE, Brazil), Rossana Maria de Castro Andrade (UFC, Brazil)

•**Babel: A Dataset of Coding Rule Violations Detected by Linters Across Multiple**

Programming Languages – Maria Fernanda De Lima Oliveira Sales (UFPE, Brazil), Fernanda Madeiral (UFPE, Brazil)

•**An Incremental AI-Assisted Strategy for Unit Testing in Clojure Programs** – Raíssa Barreira

(Universidade de São Paulo/ICMC, Brazil)

•**Automatic test data generation using LLM: A comparative study of multi-agent systems,**

prompting, and fine-tuning – Brena Ribeiro (ICMC / University of São Paulo, Brazil), Simone do Rocio Senger Souza (USP, Brazil)

• **An Assisted Approach for Functional Inspection of User Interface Prototypes** – Gretchen T. Macedo (Federal University of Amazonas, Brazil), Awdren de Lima Fontão (Federal University of Mato Grosso do Sul, Brazil), Bruno Gadelha (UFAM, Brazil)

SEDT: ST1 + Painei

Sala: Sala Mauro Mota I

Sessão: ST3 + Painei

• **Papers:**

• [16:00–16:15] **Gêmeos Digitais em Laboratórios Inteligentes: Implementação Inicial no Sistema de Climatização** – Felipe Tavoni (USP, Brasil), Júlio César Estrella (USP, Brasil), André Luiz Santos Messias (USP, Brasil), André Codorniz (USP, Brasil)

• [16:15–16:35] **Urban Digital Twins for Megalopolises: Requirements, Challenges and Opportunities** – Daniel Cordeiro (USP, Brasil), Jiefu Song (Université Toulouse Capitole, França), Kelly Rosa Braghetto (USP, Brasil), Fabio Kon (USP, Brasil), Frédéric Amblard (Université Toulouse Capitole, França)

• [16:35–16:55] **A Rapid Review on Software Reuse in Digital Twin Development Lifecycle** – Lorena Mamede Botelho (UFRJ, Brasil), Claudia Werner (UFRJ, Brasil), Claudio Miceli de Farias (UFRJ, Brasil)

• [16:55–17:15] **Painei: Desafios de Engenharia de Software para Gêmeos Digitais** – Everton Cavalcante (UFRN), Thais Batista (UFRN)

• [17:15–17:20] **Encerramento** –

24/09/2025

11:00–12:30

SBES: Keynote Lionel Briand (Automated Testing and Safety Analysis of Deep Learning Systems)

Sala: Sala Manuel Bandeira I
(sem papers ou sessão fechada)

11:00–12:30

SBES: ST1

Sala: Sala Manuel Bandeira I

Chair: Carla Bezerra (UFC)

Sessão: Human and Social Aspects I

•**Papers:**

- [11:00–11:20] **Promovendo a Representatividade Feminina na Engenharia de Software por meio de Comunidades Python: Um Relato de Experiência Educacional** – Sabrina da Silva Frazão (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), Arlana Braga da Silva (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), Júlia Giroldo (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), José Elislande Breno de Souza Linhares (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), Lia Alessandra da Silva Martins (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), David Washington Freitas Lima (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas), Fabiann Matthaus Barbosa (Instituto Federal de Educação, Ciência e Tecnologia do Amazonas)
- [11:20–11:35] **Pain in a Safe Space: Mapping Emotions and Discourse in the Womenintech Subreddit** – Jessica Barbara da Silva Ribas (PUCRIO), Joanne Carneiro (LES-DI/PUC-Rio), Theo Sousa (Departamento de Informatica PUC-Rio), Júlia Azevedo (Departamento de Informatica PUC-Rio), Jailma Januario da Silva (Departamento de Informatica PUC-Rio), Anderson Uchôa (UFC), Juliana Alves Pereira (PUC Rio)
- [11:35–11:55] **Diversity Matters: Perceived Inclusion and Discrimination by Brazilian Tech Professionals** – Theo Sousa (PUC-Rio), Júlia Azevedo (PUC-Rio), Jessica Barbara da Silva Ribas (PUC-Rio), Anderson Uchôa (UFC), Larissa Rocha Soares Bastos (UNEB), Juliana Alves Pereira (PUC-Rio)
- [11:55–12:05] **womeninoss.com: Supporting women participation in OSS communities** –Gessyca Moreira (IFMG), Juliana Freitas (FURG), Sarah Burvant (Louisiana State University), Caitlynn Sengchiam (Louisiana State University), Suelen Mapa de Paula (IFMG), Felipe Fronchetti (Louisiana State University)
- [12:05–12:25] **How does parenthood affect an ICT practitioner's work? A survey study with fathers** – Larissa Rocha (UFBA), Edna Dias Canedo (UNB), Claudia Pinto Pereira (UEFS), Carla Bezerra (UFC), Fabiana Freitas Mendes (Aalto University)

SBES: ST2

Sala: Sala Manuel Bandeira IV

Chair: Fernando Trinta (UFC)

Sessão: Architecture, Microservices & Cloud I

•**Papers:**

- [11:00–11:20] **A Real-time data synchronization approach for high-availability micro applications** – Fernando Moraes (UNESP), Frank José Affonso (UNESP), Daniel Almeida (UNESP)
- [16:30–16:50] **Análise Comparativa de Leis de Proteção de Dados e Frameworks de Privacidade: Otimizando Soluções para Conformidade com LGPD e Leis Internacionais** – Lucas Dalle Rocha (UnB/Aalto University), Edna Dias Canedo (UnB)
- [11:20–11:40] **Evaluating Strategies for Teaching Micro Frontends: Do Anti-patterns Help?** – Nabson Paiva Souza Silva (UFAM), Eriky Rodrigues (UFAM), Tayana Conte (UFAM)
- [16:50–17:10] **Measuring Trivial and Non-Trivial Refactoring: A Predictive Analysis and**

Index Proposal – Darwin Pinheiro (UFC), Carla Bezerra (UFC), Anderson Uchôa (UFC)

•[11:40–11:50] **JS-Distributor: decomposing monolith applications into microservices** –

Daniel Lucrédio (UFSCAR), Guilherme Escher (UFSCAR), Maurício Almeida (UFSCAR), João Vitor Fidelis Cardozo (UFSCAR), Romeu Leite (UFSCAR), Ivan Capeli Navas (UFSCAR), Vinicius Nordi Esperança (UFSCAR)

•[17:10–17:30] **On the Interaction between Software Engineers and Data Scientists when**

Building Machine Learning-Enabled Systems – Gabriel Busquim (PUC-Rio), Maria Julia Lima (Tecgraf PUC-Rio), Marcos Kalinowski (PUC-Rio)

•[11:50–12:00] **FluentArch: uma abordagem moderna para verificação de conformidade arquitetural para C#** – Arthur Castro, Ricardo Terra (UFLA)

•[12:00–12:20] **Continuously Managing Microservice Granularity: An Evidence-Based Industrial Approach** – Yan Justino (CESAR School), Carlos Eduardo da Silva (Sheffield Hallam University, UK), Rafael Duarte (CESAR School)

•[12:20–12:30] **ResilienceBench-Operator: A Kubernetes Extension for Orchestrating Resilience Experiments on Microservice Applications** – Carlos Mendes Aderaldo (Unifor), Nabor Mendonça (Unifor)

SBES: ST3

Sala: Sala Mauro Mota II

Chair: Awdren Fontão

Sessão: AI4SE I

•**Papers:**

•[11:00–11:20] **LLMs as Test Generators: A Comparative Benchmarking Study** – Esdras Caleb Oliveira Silva (UFRN), Roberta Coelho (UFRN), Lyrene Fernandes Silva (UFRN)

•[11:00–11:30] **A Method for Supporting Requirements Change Management in Software Ecosystems Based on Open Innovation and CrowdRE** – Paulo Malcher (UNIRIO/UFRA), Davi Viana (UFMA), Rodrigo Pereira dos Santos (UNIRIO)

•[11:20–11:35] **Configuring Parameters of Search-based Software Engineering Tools with Multiple LLM Models** – Daniel Nouchi, Willian Marques Freire (UEM), Aline Maria M. M. Amaral (UEM), Silvia Regina Vergilio (UFPR), Thelma Elita Colanzi (UEM)

•[11:30–12:00] **Code Smells and Refactorings for Elixir** – Lucas Vegi (UFMG/UFV), Marco Tulio Valente (UFMG)

•[11:35–11:50] **Automated Generation of Exploratory Test Cases Using Prompt Chaining and Reflective Evaluation** – Igor Lima (IComp/UFAM), André Carvalho (UFAM), Yan Soares (IComp/UFAM), Gabriel Carvalho (IComp-UFAM), Andres David Peralta de Aguas (Icomp/UFAM)

•[12:00–12:30] **Smart Prediction for Test Smell Refactorings** – Luana Martins (UFBA/University of Salerno), Ivan do Carmo Machado (UFBA), Heitor Augustus Xavier Costa (UFLA), Fabio Palomba (University of Salerno)

•[11:50–12:10] **Evaluating Fine-tuning Approaches for Duplicate Bug Report Detection** – Luiz Eduardo Philippi Rosane (Göteborg University, Sweden), Robert Einer (Göteborg University, Sweden), Mert Yurdakul (TestScouts, Sweden), Francisco Gomes de Oliveira Neto (Göteborg University/Chalmers University of Technology)

•[12:10–12:30] **Combining TSL and LLM to Automate REST API Testing: A Comparative Study** – Thiago da Silva Barradas (UFF), Aline Paes (UFF), Vânia de Oliveira Neves (UFF)

SBES: ST4

Sala: Sala Mauro Mota III

Chair: Gleison Santos (UNIRIO)

Sessão: Open Science & ESE I

•Papers:

- [11:00–11:20] **Survey-Based Insights into the Replication Crisis and the 3R in Software Engineering** – Ivanildo de Azevedo (UFPE), Ana Paula Vasconcelos (UFPE), Eudis Oliveira Teixeira (IFSertãoPE), Sergio Soares (UFPE)
- [11:20–11:40] **Understanding Psychological Safety in Agile Software Development Teams** – Lidivania da Conceição do Monte (UEFS), Beatriz Silva de Santana (UEFS), Glauco de Figueiredo Carneiro (UFS), Manoel Mendonca (UFBA), Sávio Freire (IFCE), José Amancio Macedo Santos (UEFS)
- [11:40–11:55] **Reimagining Studies' Replication: A Validity-Driven Analysis of Threats in Empirical Software Engineering** – Ivanildo de Azevedo (UFPE), Ana Paula Vasconcelos (UFPE), Eudis Oliveira Teixeira (Instituto Federal de Educação, Ciência e Tecnologia do Sertão Pernambucano), Sergio Soares (UFPE)
- [11:55–12:05] **Thoth 2.0: Advancing an RSL Tool for Enhanced Snowballing Support** – Diego dos Santos Comis (UNIPAMPA), Elder Macedo Rodrigues (UNIPAMPA)
- [12:05–12:15] **QAnubis - Uma Ferramenta Web de Apoio ao Processo de Análise Qualitativa** – Elder Macedo Rodrigues (UNIPAMPA), Ildevana Poltronieri (UNIPAMPA), Maicon Bernardino (UNIPAMPA), Fábio Paulo Basso (UNIPAMPA), Giliardi Schmidt (UNIPAMPA), Lucas Campello Pieva (IFFarroupilha)
- [12:15–12:30] **Toward Reliable Forward Snowballing in Systematic Literature Reviews: A Comparative Study and Framework Proposal** – Jailma Januario da Silva (Departamento de Informatica PUC-Rio), Maria Isabel Soares Brandão Nicolau (PUCRIO), Katia Felizardo (UTFPR), Juliana Alves Pereira (PUC Rio)

14:00–15:30

SBES: ST5

Sala: Sala Manuel Bandeira I

Chair: Edna Dias Canedo (UnB)

Sessão: Human and Social Aspects II

•Papers:

- [14:00–14:20] **Investigating the Impact of GitHub Discussions on Maintainers' Workload and Community Dynamics** – Ana Maciel (UEM), Mairieli Wessel (Radboud University, The Netherlands), Igor Scaliante Wiese (UTFPR), Igor Steinmacher (Northern Arizona University, USA)
- [14:20–14:40] **PRemo: A Dataset of Emotions Found on Pull Request Discussions** – Daniel Coutinho (PUC-Rio), Juliana Alves Pereira (PUC-Rio), Breno Neves (PUC-Rio), João Lucas Marques Correia (PUC-Rio), Caio Barbosa Vieira da Silva (PUC-Rio), Wesley K. G. Assunção (North Carolina State University, USA), Igor Steinmacher (Northern Arizona University, USA), Marco Aurelio Gerosa (Northern Arizona University, USA), Augusto Baffa (PUC-Rio), Alessandro Garcia (PUC-Rio)
- [14:40–14:50] **PeacemakerBot: A LLM-Powered Bot for Identifying and Reducing Signs of Incivility in GitHub Conversations** – Antonio Gomes, Emanuel Avila (UFC), Eric Mesquita, Carlos Jefté, Arthur Mesquita, Lucas Sousa (UFC), Matheus Rabelo (Universidade Federal do Ceará UFC), Mairieli Wessel (Radboud University), Anderson Uchôa (UFC)
- [14:50–15:10] **Science Communication of Brazilian Software Engineering Research on LinkedIn** – Luiza Carolina Miranda Garcia (UFSC), Fabrício Herpich (UFSC), Cleidson de Souza (UFPA), Andréa Sabedra Bordin (UFSC)
- [15:10–15:30] **Exploring Developer Experience Factors in Software Ecosystems** – Rodrigo Oliveira Zacarias (UFF/UNIRIO), Léo Carvalho R. Antunes (UNIRIO), Márcio de Oliveira Barros (UNIRIO), Rodrigo Pereira dos Santos (UNIRIO), Patricia Lago (Vrije Universiteit Amsterdam)

SBES: ST6**Sala:** Sala Manuel Bandeira II**Chair:** Matheus Paixão (UECE)**Sessão:** Software Maintenance & Comprehension I**•Papers:**

- [14:00–14:20] **Bugs in the Shadows: Static Detection of Faulty Python Refactorings** – Jonhnanthan Oliveira (UFCG), Rohit Gheyi (UFCG), Marcio Ribeiro (UFAL), Alessandro Garcia (PUC-Rio)
- [14:20–14:35] **Refactoring Python Code with LLM-Based Multi-Agent Systems: An Empirical Study in ML Software Projects** – Alexander Puma Pucho (UNICAMP), Alexandre Mello Ferreira (UNICAMP), Elder José Reioi Cirilo (Federal University of São João del-Rei), Bruno B. P. Cafeo (UNICAMP)
- [14:35–14:55] **How do annotations affect Java code readability?** – Eduardo Guerra (Free University of Bozen-Bolzano), Everaldo Gomes (USP-São Paulo), Jeferson Ferreira (SONDA Brasil), Igor Wiese (UTFPR-Campo Mourão), Phyllipe Lima (UNIFEI), Marco Gerosa (Northern Arizona University), Paulo Meirelles (USP-São Paulo)
- [14:55–15:15] **Hearing the Voice of Software Practitioners on Technical Debt Monitoring: Understanding Monitoring Practices and the Practices' Avoidance Reasons** – Sávio Freire (IFCE/UFBA), Nicolli Rios (UFRJ), Boris Pérez (University of Los Andes and Francisco de Paula Santander University), Camilo Castellanos (University of Los Andes), Darío Correal (University of Los Andes), Robert Ramač (University of Novi Sad), Vladimir Mandić (University of Novi Sad), Nebojša Taušan (University of Novi Sad), Gustavo López (University of Costa Rica), Alexia Pacheco (University of Costa Rica), Manoel Mendonça (Federal University of Bahia), Davide Falessi (University of Rome Tor Vergata), Clemente Izurieta (Montana State University and Idaho National Laboratories), Carolyn Seaman (University of Maryland Baltimore County), Rodrigo Spínola (Virginia Commonwealth University)
- [15:15–15:30] **Detecting Refactorings using Foundation Models** – Pedro Henrique Lima Simões (UFCG), Rohit Gheyi (UFCG), Rian Ismael Elias de Melo (UFCG), Jonhnanthan Oliveira (UFCG), Marcio Ribeiro (UFAL), Wesley Assunção (NSCU)

SBES: ST7**Sala:** Sala Manuel Bandeira IV**Chair:** Lina Garcés (USP)**Sessão:** Requirements I**•Papers:**

- [14:00–14:20] **Design Thinking as a Toolbox for Requirements Engineering Education: Lessons from the Classroom** – Maria Alcimar Costa Meireles (UFAM), Eriky Rodrigues (UFAM), Igor Steinmacher (NAU, United States of America), José Carlos Maldonado (SSC/ICMC-USP/ São Carlos), Tayana Conte (UFAM)
- [14:20–14:30] **SafeSecRETS: A Safety and Security Requirements Tool for Critical IoT Systems** – Ernesto Fonseca Veiga (UFG), Taciana Novo Kudo (UFG), Renato Bulcão-Neto (UFG)
- [14:30–14:45] **Estimativa de Esforço em Story Points a partir de User Stories com Large Language Models** – Giseldo da Silva Neo (UFAL), José Antão Beltrão Moura (UFCG), Alana Viana Borges da Silva Neo (IFMS Campus Corumbá), Olival de Gusmão Freitas Júnior (UFAL)
- [14:45–15:00] **Evaluating the Capability of Prompted LLMs to Recommend NFR from User Stories: A Preliminary Study** – Renan Alves (UFCG), Mirko Perkusich (UFCG), Felipe Ramos (IFPB), Danyllo Albuquerque (UFCG), Kyller Gorgônio (UFCG), Angelo Perkusich (UFCG)
- [15:00–15:15] **From Real-Time Conversation to User Story: Leveraging Agile Requirements through LLM** – Ramon Martinez Pereira (PUCPR), Andreia Malucelli (PUCPR), Sheila Reinehr (PUCPR)
- [15:15–15:35] **Evaluating the Potential of Large Language Models in Security-Related Software Requirements Classification** – Murilo Martin (PUC-Rio), Daniel Coutinho (PUC-Rio),

Anderson Uchôa (UFC), Juliana Alves Pereira (PUC-Rio)

SBES: ST8

Sala: Sala Mauro Mota II

Chair: Allysson Araújo (UFCA)

Sessão: Software Processes & Project Mgmt I

•Papers:

- [14:00–14:20] **Explorando a Influência da Segurança Psicológica na Qualidade do Software em Equipes Ágeis** – Marcelo Marinho (UFRPE), Fernanda Oliveira Carneiro de Albuquerque (UFRPE), Luis Felipe Cavalcanti de Amorim (UFRPE), Suzana Sampaio (UFRPE)
- [14:20–14:40] **Investigating how psychological safety can be fostered in agile teams** – Andre Kaiser (UNIRIO), Eliezer Dutra (UNIRIO), Gleison Santos (UNIRIO)
- [14:40–15:00] **The Perspective of Agile Software Developers on Data Privacy** – Mariana Peixoto (UPE), Tony Gorschek, Daniel Mendez (Blekinge Institute of Technology (BTH)), Carla Silva (UFPE), Davide Fucci (Blekinge Institute of Technology (BTH))
- [15:00–15:15] **Enhancing Hackathon Practices in Software Engineering: A Neuroscience-Informed Model for Team Well-being and Software Quality** – Alcione Ramos (UFRN), Márcia Lucena (UFRN)
- [15:15–15:30] **Can the Linux Kernel sustain 30 more years of growth? Toward mitigating bottlenecks in its development model** – David Tadokoro (USP), Rodrigo Siqueira (Igalia), Paulo Meirelles (USP)

SBLP: ST1

Sala: Sala Manuel Bandeira III

Sessão: Sessão Técnica 1

•Papers:

- [14:00–14:30] **Quantum Gate Decomposition: A Study of Compilation Time vs. Execution Time Trade-offs** – Evandro Rosa, Jerusa Marchi, Eduardo Duzzioni, Rafael de Santiago (UFSC)
- [14:30–15:00] **Modeling Quantum Computing Constraints: No-Cloning Theorem and Monadic Expressiveness with Type-Level Programming** – Flávio Borin Júnior, Juliana Kaizer Vizzotto (UFSM)
- [15:00–15:30] **Interpretando Efeitos Algébricos por Meio de Mônadas** – Karla Alexsandra de Souza Joriatti, Cristiano Damiani Vasconcellos, Paulo H. Torrens (UDESC), Rodrigo Geraldo Ribeiro (UFOP)

SBES: Tools Demonstration Session 1

Sala: Sala Mauro Mota III

Chair: Cleidson Souza e Thelma Colanzi

Sessão: Tools Demo 1

•Papers:

- KnowEval: A Tool to Support the Evaluation of Organizational Knowledge Transfer** – Jose Wilson Cavalcanti Ferreira Junior (UFPE), WILLIBY FERREIRA (UFPE), Juliana de Albuquerque Gonçalves Saraiva (UFPB), Sergio Soares (UFPE)
- CaLMo: A Tool to support the use of Causal Loop Diagram in Software Engineering** – Amanda Apolinario (UFES), Thiago Felipe Neitzke Lahass (UFES), Júlia de Souza Borges (UFES), Paulo Sérgio Santos Júnior (IFES), Monalessa P. Barcellos (UFES)
- Silver Bullet - Software Project Management Process Support Tool** – Raul Neves (UNIPAMPA), Maicon Bernardino (UNIPAMPA), Matheus Dias (UNIPAMPA), Dionas Luan Müller (UNIPAMPA), Fábio Paulo Basso (UNIPAMPA), Elder Macedo Rodrigues (UNIPAMPA)
- Solaria-GPT: A Tailored ChatGPT Tool for Usability Inspection** – Lennon Chaves (Universidade Federal do Amazonas UFAM), Márcia S. Lima (UEA), Tayana Conte (UFAM)
- Highlight Test Code: Visualizing the Co-Evolution of Test and Production Code in Software Repositories** – Charles Miranda (Federal University of Piauí), Guilherme Avelino (UFPI), Pedro de A. dos Santos Neto (UFPI)
- DABCheck: Um Plugin para Detecção de Mudanças Disruptivas em Argumentos-Padrão de**

Bibliotecas Python – Gabriel Lima Barros (UFMG), João Vítor Bicalho (UFMG), João Eduardo Montandon (UFMG)

• **ResilienceBench-Operator: A Kubernetes Extension for Orchestrating Resilience**

Experiments on Microservice Applications – Carlos Mendes Aderaldo (Unifor), Nabor Mendonca (Unifor)

• **AriesLinter: Sniffing Test Smells Before They Happen** – Rafael Vieira (Universidade Federal da Bahia), Eronildo José da Silva Junior (UFBA), Tassio Guerreiro Antunes Virginio (UFBA), Larissa Rocha Soares Bastos (Universidade do Estado da Bahia UNEB), Carla Bezerra (UFC), Ivan C Machado (UFBA)

• **DANTES: Automating Detection and Refactoring of Test Smells** – Daniel Bruno Ramos (UFBA), Railana Santana (UFBA), Ivan C Machado (UFBA)

• **AromaDr: A Language-Independent Tool for Detecting Test Smells** – Publio Silva (UFC), Carla Bezerra (UFC), Ivan do Carmo Machado (UFBA), Marcio Ribeiro (UFAL)

• **DNose: Dart Test Smell Detector** – Tassio Guerreiro Antunes Virginio (UFBA), Marcio Ribeiro (UFAL), Ivan C Machado (UFBA)

16:00–17:30

SBES: ST9

Sala: Sala Manuel Bandeira I

Chair: Rodrigo Andrade (UFAPE)

Sessão: Testing, Quality & Verification I

• **Papers:**

• [16:00–16:20] **Aged to Perfection? Analyzing the Impact of Years of Experience on Code Quality** – Jefferson Geovane Moreira Lopes (UFMG), Johnatan Alves Oliveira (UFLA), Eduardo Figueiredo (UFMG)

• [16:20–16:40] **Software testing for peer-to-peer systems: Challenges and the state-of-the-art** – Bruno E. R. Garcia (USP-São Carlos), Simone R. S. Souza (USP-São Carlos)

• [16:40–17:00] **Educational Insights from Code: Mapping Learning Challenges in Object-Oriented Programming through Code-Based Evidence** – Bruno Henrique Strik (IFPR), André Luís Andrade Menolli (UENP)

• [17:00–17:20] **Tester's Quest: Um Jogo de Tabuleiro Cooperativo para o Ensino de Teste de Software** – Elias Torres (UFPB), Carlos Costa (UFPB), Arthur Oliveira (UFPB), Maria Sá Gurgel Linhares Alves (UFPB), João Victor (UFPB), Yuska Paola Costa Aguiar (UFPB)

• [17:20–17:35] **Using Large Language Models to Classify Test Case Complexity with Explainability** – Tiago Custódio (UFAM), Maikon Santos, Yan Soares (IComp/UFAM), André Carvalho (UFAM)

SBES: ST10

Sala: Sala Manuel Bandeira II

Chair: Anderson Uchôa (UFC)

Sessão: DevOps & Continuous Engineering I

• **Papers:**

• [16:00–16:20] **Educator Perceptions of DevOps Teaching Recommendations and Their Alignment with Common Challenges** – Marcelo Romulo Fernandes (IFRN), Pablo Paiva (UFRN), Samuel Lucas de Moura Ferino (Monash University, Australia, Australia), Roberta Coelho (UFRN), Christoph Treude (UFRN), Eduardo Aranha (UFRN), Uirá Kulesza (UFRN)

• [16:20–16:35] **Exploring the Impact of GitHub Actions on Pull Request Reviews in Machine Learning Projects** – João Helis Junior de Azevedo Bernardo (IFRN), Daniel Alencar da Costa (University of Otago), Sérgio Queiroz de Medeiros (UFRN), Uirá Kulesza (UFRN)

• [16:35–16:55] **Choosing the Right Git Workflow: A Comparative Analysis of Trunk-based vs. Branch-based Approaches** – Pedro Henrique Lopes dos Santos (UFPE), Paola Accioly (UFPE), Paulo Borba (UFPE), Vitor Menezes (UFPE)

• [16:55–17:05] **Kworkflow: a kernel Linux developer workflow tool** – David Tadokoro (USP), Rodrigo Siqueira (Igalia), Paulo Meirelles (USP)

- [17:05–17:25] **LSTM-based Forecasting for Non-linear Workloads in On-premises**

Software Systems – Rafael Luiz Xavier (CEFET-MG), Bruno B. P. Cafeo (UNICAMP), Balduino Fonseca (UFAL), Davy de Medeiros Baia (UFAL), Elder José Reoli Cirilo (UFSJ)

- [17:25–17:35] **Tool Support for Spectrum-based Fault Localization during Continuous**

Integration – Erickson Lima Barbosa da Silva (USP), Roberto Paulo Andrioli de Araujo (USP), Marcos L. Chaim (USP)

SBES: ST11

Sala: Sala Manuel Bandeira IV

Chair: Tiago Massoni (UFCG)

Sessão: Architecture, Microservices & Cloud II

•Papers:

- [16:00–16:15] **Investigando a Integração Estrutural de LLMs em Ecossistemas de Software: Um Estudo com Modelagem SSN** – Francisco Victor da Silva Pinheiro (UFC), Emanuel Coutinho (UFC), Marcelo Martins da Silva (UFC), Sidartha Carvalho (UFC), Rossana Maria de Castro Andrade (UFC)

- [16:15–16:35] **Rumo a um Catálogo de Anti-padrões de Observabilidade: Uma Revisão da Literatura** – Francisco Gomes (UFC), Paulo Antonio Leal Rego (UFC), Fernando Antonio Mota Trinta (UFC)

- [16:35–16:55] **Desvendando as Mentes dos Jogadores: Utilizando a Escala HEXAD para Identificar Preferências de Gamificação no Ensino de Arquitetura de Software** – Carlos Augusto Carneiro de Freitas Filho (UFC), Lince Sena (UFC), Anna Beatriz Marques (UFC)

- [16:55–17:10] **Language Models as Architectural Gatekeepers: Automating Conformance Checking from Natural Language** – Andrielly Lucena (UFCG), Everton L.G. Alves (UFCG), João Brunet (UFCG)

- [17:10–17:20] **ArchLintor: detecting architectural violations in TypeScript systems** – MATHEUS HENRIQUE CARVALHO DE PAIVA RESENDE, Rafael Serapilha Durelli (UFLA), Ricardo Terra (UFLA)

SBES: ST12

Sala: Sala Mauro Mota II

Chair: Monalessa P. Barcellos (UFES)

Sessão: Human and Social Aspects III

•Papers:

- [16:00–16:20] **Integrating Experiential Learning, Distance Education, and Extension Curricularization in an Undergraduate Systems Analysis and Development**

Program – Allysson Alex Araújo (Universidade Federal do Cariri), Davi Viana (UFMA), Marcos Kalinowski (PUCRIO)

- [16:20–16:40] **Avaliando a Colaboração no Ensino de Engenharia de Software: Percepções a partir de uma Revisão Rápida** – Enzo Kleinpaul (IFFarroupilha), Rafael Parizi (IFFarroupilha)

- [16:40–17:00] **Bloom's Taxonomy as a Lens to Explore Student Learning of Design Thinking in Software Engineering Education and Training** – Eriky Rodrigues (UFAM), Nabson Paiva Souza Silva (UFAM), Maria Alcimar Costa Meireles (UFAM), José Carlos Maldonado (SSC/ICMC-USP/ São Carlos), Márcia S. Lima (UEA), Tayana Conte (UFAM)

- [17:00–17:20] **Um relatório de análise dos cursos de graduação em ES no Brasil: revelações e insights** – Izadora Lima (UFMA), Marcos Oliveira, Bruno Silva (UFMA), Fernando Ayach (UFMS), Diogo Menezes (UFMS), Rodrigo Pereira dos Santos (UNIRIO), Awdren de Lima Fontão (UFMS), Davi Viana (UFMA)

- [17:20–17:40] **BitBeak: Gamificação e Mangás como Apoio ao Ensino de Programação** – Gustavo Henrique Alves (PUCPR), Marcos Vinicius Alves de Souza, Tiago Navarro (PUCPR)

SBLP: Keynote Rafael Dueire

Lins Sala: Sala Manuel Bandeira III

(sem papers ou sessão fechada)

25/09/2025

09:00–10:30

SBES: Keynote Sarah Nadi (Software Dependencies: Then, Now, and Beyond)

Sala: Sala Manuel Bandeira I

(sem papers ou sessão fechada)

SBLP: ST2

Sala: Sala Manuel Bandeira III

Sessão: Sessão Técnica 2

•**Papers:**

- [09:00–09:30] **On the Practicality of LLM-Based Compiler Fuzzing** – Gabriel Guimarães dos Santos Ricardo, Natanael dos Santos Junior, Flavio Figueiredo, Fernando Magno Quintao Pereira (UFMG)
- [09:30–10:00] **An Interpreter-based Framework for Static Analysis of Variability in Space and Time** – Tayná Vieira, Vander R. Alves (UnB), Leopoldo Motta Teixeira (UFPE)
- [10:00–10:30] **Static Analysis for Program Execution Cost Estimation** – Pedro Henrique Torres Peres Garozi, Anderson Faustino da Silva (UEM)

11:00–12:30

SBES: ST13

Sala: Sala Manuel Bandeira I

Chair: Sávio Freire (IFCE)

Sessão: AI4SE II: Human-Centered GenAI

•**Papers:**

- [11:00–11:15] **AI-Generated User Stories: Are They Good Enough?** – Reine Santos (UFAM), Igor Steinmacher (NAU), Tayana Conte (UFAM), Ana Carolina Oran (UFAM), Bruno Gadelha (UFAM)
- [11:15–11:30] **The Impact of Generative AI on Code Expertise Models: An Exploratory Study** – Otávio Cury da Costa Castro (UFPI), Guilherme Avelino (UFPI)
- [11:30–11:50] **Avaliando o Papel do GPT-4o na Aprendizagem de Engenharia de Software: Um Relato de Experiência** – Bruno Mendes de Carvalho C Branco (UFPI), Antonio Neto (UFPI), Guilherme Avelino (Federal University of Piauí), Vinicius Ponte Machado (UFPI)
- [11:50–12:10] **Generating Proto-Personas through Prompt Engineering: A Case Study on Efficiency, Effectiveness, and Empathy** – Fernando Ayach (UFMS), Vitor Lameirão (UFMS), Raul Leão (UFMS), Jerfferson Jorge Felizardo Júnior (UFMS), Rafael Sobrinho (UFMS), Vanessa Araujo Borges (UFMS), Patricia Gomes Fernandes Matsubara (UFMS), Awdren de Lima Fontão (UFMS)
- [12:10–12:30] **404: Civility Not Found? Evaluating the Effectiveness of Small Language Models in Detecting Incivility in GitHub Conversations** – Mário Patrício (UFC), Silas Eufrásio (UFC), Anderson Uchôa (UFC), Lincoln S. Rocha (UFC), Daniel Coutinho (PUC-Rio), Juliana Alves Pereira (PUC-Rio), Matheus Paixão (UECE), Alessandro Garcia (PUC-Rio)

SBES: ST14

Sala: Sala Manuel Bandeira IV

Chair: João Eduardo Montandon (UFMG)

Sessão: Testing, Quality & Verification II

•**Papers:**

- [11:00–11:20] **Identifying and Addressing Test Smells in JavaScript: A Developer-Centric Study** – Jhonatan De Jesus Oliveira (UNEB), Luigi Mateus Brito dos Santos Sena (UNEB), Gabriel Amaral Sousa (UEFS), Tássio Víriginio (UFBA), Carla Bezerra (UFC), Ivan Machado (UFBA), Larissa Rocha Soares Bastos (UNEB)
- [11:20–11:30] **AriesLinter: Sniffing Test Smells Before They Happen** – Rafael Vieira (Universiade Federal da Bahia), Eronildo José da Silva Junior (UFBA), Tassio Guerreiro Antunes

Virginio (UFBA), Larissa Rocha Soares Bastos (Universidade do Estado da Bahia UNEB), Carla Bezerra (UFC), Ivan C Machado (UFBA)

[11:30–11:40] **DANTES: Automating Detection and Refactoring of Test Smells** – Daniel Bruno Ramos (UFBA), Railana Santana (UFBA), Ivan C Machado (UFBA)

[11:40–11:55] **Investigating the Performance of Small Language Models in Detecting Test Smells in Manual Test Cases** – Keila Lucas (UFCG), Rohit Gheyi (UFCG), Marcio Ribeiro (UFAL), Fabio Palomba (University of Salerno), Luana Martins (University of Salerno), Elvys Alves Soares (IFAL)

[11:55–12:10] **Improving JavaScript Test Quality with Large Language Models: Lessons from Test Smell Refactoring** – Gabriel Amaral Sousa (UEFS), Henrique Nunes Gomes (UFMG), Eduardo Figueiredo (UFMG), Carla Bezerra (UFC), Larissa Rocha Soares Bastos (UNEB)

[12:10–12:20] **AromaDr: A Language-Independent Tool for Detecting Test Smells** – Publio Silva (UFC), Carla Bezerra (UFC), Ivan do Carmo Machado (UFBA), Marcio Ribeiro (UFAL)

[12:20–12:30] **DNose: Dart Test Smell Detector** – Tassio Guerreiro Antunes Virginio (UFBA), Marcio Ribeiro (UFAL), Ivan C Machado (UFBA)

SBES: ST15

Sala: Sala Mauro Mota III

Chair: Thaís Burity(UFAPE)

Sessão: Software Maintenance & Comprehension II

•Papers:

•[11:00–11:20] **An Approach Based on Metadata to Implement Convention over Configuration Decoupled from Framework Logic** – Everaldo Gomes (USP-São Paulo), Eduardo Guerra (Free University of Bozen-Bolzano), Phyllipe Lima (UNIFEI), Paulo Meirelles (USP-São Paulo)

•[11:20–11:40] **Teaching software design patterns using Jigsaw** – Lina Garcés (ICMC / University of São Paulo), Brauner Oliveira (University of São Paulo)

•[11:40–12:00] **Embracing modern C++ features: An empirical assessment on the KDE community** – Walter Lucas (UNB), Fausto Carvalho (UNB), Rafael Campos Nunes (UNB), Rodrigo Bonifácio (UNB), João Saraiva (Universidade do Minho), Paola Accioly (UFCA)

•[12:00–12:10] **Highlight Test Code: Visualizing the Co-Evolution of Test and Production Code in Software Repositories** – Charles Miranda (Federal University of Piauí), Guilherme Avelino (UFPI), Pedro de A. dos Santos Neto (UFPI)

•[12:10–12:20] **DABCheck: Um Plugin para Detecção de Mudanças Disruptivas em Argumentos-Padrão de Bibliotecas Python** – Gabriel Lima Barros (UFMG), João Vítor Bicalho (UFMG), João Eduardo Montandon (UFMG)

SBLP: Keynote Sandrine Blazy

Sala: Sala Manuel Bandeira III
(sem papers ou sessão fechada)

SBES: CTIC

Sala: Sala Mauro Mota I

Chair: Allysson Araújo e Liliane Fonseca

Sessão: CTIC-ES - Iniciação Científica

•Papers:

•**Em Direção a uma Abordagem Baseada em IA Generativa para Automação de Testes End-to-End** – Elvis Junior (UFF), Vânia de Oliveira Neves (UFF)

•**How Close Is ChatGPT to Developer Judgment? A Study on Stack Overflow Java Questions** – Felipe Reis (IFTM), Carlos Eduardo Carvalho Dantas (IFTM), Marcelo de Almeida Maia (UFU)

•**Unconscious Bias and Perceived Discrimination by Tech Professionals in Brazil** – Theo Sousa (PUC-Rio), Júlia Azevedo (PUC-Rio), Jessica Barbara da Silva Ribas (PUC-Rio), Anderson Uchôa (UFC), Larissa Rocha Soares Bastos (UNEB), Juliana Alves Pereira (PUC-Rio)

•**Zimic: Towards Compliant TypeScript API Mocks** – Diego Cruz de Aquino (UFCG), Everton L. G. Alves (UFCG)

SBES: CTD

Sala: Sala Mauro Mota II

Chair: Roberta Coelho e Simone Souza

Sessão: CTD-ES - Teses Doutorado

•**Papers:**

- [11:00–11:30] **A Method for Supporting Requirements Change Management in Software Ecosystems Based on Open Innovation and CrowdRE** – Paulo Malcher (UNIRIO/UFRA), Davi Viana (UFMA), Rodrigo Pereira dos Santos (UNIRIO)
- [11:30–12:00] **Code Smells and Refactorings for Elixir** – Lucas Vegi (UFMG/UFV), Marco Tulio Valente (UFMG)
- [12:00–12:30] **Smart Prediction for Test Smell Refactorings** – Luana Martins (UFBA/University of Salerno), Ivan do Carmo Machado (UFBA), Heitor Augustus Xavier Costa (UFLA), Fabio Palomba (University of Salerno)

14:00–15:30

Painel CBSOFT 2025

Sala: Sala Manuel Bandeira I

Chair: Fabio Kon (USP)

Sessão: Navigating AI's Impact on Software

•**Papers:**

- [16:00–17:30] **Painelista: Fábio Maia (CESAR/CISSA)** –
- Painelista: Leon Júnior (Bradesco)** –
- —

SBLP: ST3

Sala: Sala Manuel Bandeira III

Sessão: Sessão Técnica 3

•**Papers:**

- [14:30–15:00] **Indentation-Sensitive Parsers for Free-Form Languages** – Sérgio Queiroz de Medeiros (UFRN), Hugo Musso Gualandi (UFRJ)
- [15:00–15:15] **Approaching closures in unmanaged languages: a comparison between C++, Rust, and Swift** – Luiz Romário Santana Rios, Roberto Ierusalimsky (PUC-Rio)
- [14:00–14:30] **Pest control: A formal model of Pest parser generator** – Guilherme Daher, Elton Máximo Cardoso, Leonardo Vieira dos Santos Reis, Rodrigo Geraldo Ribeiro (UFOP)
- [15:15–15:30] **Porcelain: a semantic framework for studying memory safety mechanisms in imperative languages** – Pedro Henrique Boniatti Colle, Rodrigo Machado (UFRGS)

16:00–17:30

SBES: ST16

Sala: Sala Manuel Bandeira I

Chair: Everton Cavalcante (UFRN)

Sessão: Human and Social Aspects IV

•**Papers:**

- [16:00–16:20] **Do's and Don't s of Partnering with Industry to Educate Software Engineering Students: Recommendations Based on a Teaching Experience** – Natalya Marjana Goelzer (PUCRS), Pedro Portella Possamai (PUCRS), Sabrina dos Santos Marczak (PUCRS)

- [16:20–16:40] **Como Percepções e Estatísticas Revelam o Desenvolvimento de Habilidades Técnicas e Não Técnicas em Estudantes de Computação** – Victória Cavalcante (UFAC), Catarina Costa (UFAC), André Cacao (UFAC), Alessandreia Marta de Oliveira (UFJF)
- [16:40–16:55] **Investigando o Perfil Profissional de Arquitetos de Software no Brasil a partir de Anúncios de Emprego** – Lais Candido (IF Goiano), Kaique Carvalho (IFGOIANOIPR), Marcos Kalinowski (PUCRIO), Edson Oliveira Jr (UEM), Valdemar Vicente Graciano Neto (UFG)
- [16:55–17:15] **LEDS: The Rise of the (Collective) Force — 10 Years of Impact on Innovation and Education in Software Engineering** – Paulo Sérgio Santos Júnior (IFES), Rodrigo Calhau (IFES), Moises Savedra Omena (Federal Institute of Espírito Santo), Felipe Frechiani (IFES), Vanessa Battestin (IFES), Monalessa P. Barcellos (UFES)
- [17:15–17:35] **Understanding How Brazilian Software Organizations Collect and Utilize User Feedback: A Survey** – Elionai Magalhães (UFES), Monalessa P. Barcellos (UFES), Vítor E. Silva Souza (UFES)

SBES: ST17

Sala: Sala Manuel Bandeira

Chair: Bruno Gadelha
(UFAM)

Sessão:

Requirements II

•Papers:

- [16:00–16:20] **Attributes of a great requirements engineer** – Larissa Barbosa (UFBA), Sávio Freire (IFCE), Rita S.P. Maciel (UFBA), Manoel Mendonça (UFBA), Marcos Kalinowski (PUC-Rio), Zadia Codabux (University of Saskatchewan), Rodrigo Spínola (Virginia Commonwealth University)
- [16:20–16:35] **Towards Automating User Story Classification with Large Language Models Using a Reuse-Oriented Taxonomy** – Carlos Eduardo Meneses de Souza (UFCG), Mirko Perkusich (UFCG), Emanuel Dantas (UFCG), Danyllo Albuquerque (UFCG), Kyller Gorgônio (UFCG), Angelo Perkusich (UFCG)
- [16:35–16:50] **Uma página, muitas informações: como as universidades federais lidam com diferentes requisitos legais em seus sites?** – Bárbara Letícia Evangelista Bastos, Estael de Lima Gonçalves, Cleon Xavier (IF Goiano), Pedro Henrique Dias Valle (USP), Renan Vinicius Aranha (UFMT)
- [16:50–17:05] **Who Should Test the Requirement? A Comparative Study on Requirements Classification for Assigning Test Teams using the Pre-Trained Models** – Alay Nascimento (Sidia Instituto de Ciência e Tecnologia), Flavia Camila Moraes de Oliveira (Sidia Instituto de Ciência e Tecnologia), Leonardo Tiago (Sidia Instituto de Ciência e Tecnologia), Lennon Chaves (UFAM)
- [17:05–17:15] **Uma ferramenta para apoiar a análise de requisitos de software de IoT utilizando técnicas de agrupamento** – José Ruan Sampaio, Bruno Silva (UFMA), Rodrigo Pereira dos Santos (UNIRIO), Davi Viana (UFMA)
- [17:15–17:30] **On the Definition of a Method for Specifying Accessibility Requirements: Early Insights from a Focus Group With Practitioners'** – Renata Vinadé (PUCRS), Natalya Marjana Goelzer (PUCRS), Sabrina dos Santos Marczak (PUCRS)

SBES: ST18

Sala: Sala Mauro Mota I

Chair: Paola Accioly (CIn - UFPE)

Sessão: Open Science & ESE II

•Papers:

- [16:00–16:20] **Prompting LLMs for Gherkin: A Comparative Study on Automated BDD Scenario Generation** – Hiago Natan Fernandes de Sousa (UFCG), Mirko Perkusich (UFCG), Danyllo Albuquerque (UFCG), Izabella Ribeiro de Souza Silva (UFCG), Danilo F. S. Santos (UFCG), Angelo Perkusich (UFCG)
- [16:20–16:40] **FOSTER Taxonomy-based Open Science-Related Practices in Software Engineering: Review and Observations** – André F. R. Cordeiro (UEM), Edson Oliveira Jr (UEM)
- [16:40–17:00] **Learning through Practice: Teaching Empirical Software Engineering for Undergraduate Students** – Ranya Duran Greco (UFC), Sofia Desidério (UFC, Universidade Federal do Ceará), Caio César Sousa Bandeira (UFC), Anna Beatriz Marques (UFC)
- [17:00–17:15] **A Metaprotocol For a Family of Rapid Multivocal Reviews of Generative AI in the Software Industry** – Sabrina Rocha (UFRJ), Rodrigo Gonçalves (UFRJ), Larissa Galeno (UFRJ/COPPE/PESC), Guilherme Horta Travassos (COPPE/UFRJ)
- [17:15–17:30] **Comparing LLMs and Proposing an ML-Based Approach for Search String Generation in Systematic Literature Reviews** – Diogo Maraassi (PUCRIO), Katia Romero Felizardo (UTFPR), Juliana Alves Pereira (PUC Rio)

SBES: ST19

Sala: Sala Mauro Mota III

Chair: Fernanda Madeiral (CIn-UFPE)

Sessão: Software Maintenance & Comprehension III

•Papers:

- [16:00–16:20] **Unveiling the Relationship Between Continuous Integration and Code Review: A Study with 10 Closed-source Projects** – Ruben Silva (UFC), Publio Silva (UFC), Carla Bezerra (UFC), Anderson Uchôa (UFC), Alessandro Garcia (PUC-Rio)
- [16:20–16:40] **An Exploratory Study on the Lifecycle of Code Clones during Code Review** – Italo Uchoa (UECE), Denis Sousa (UECE), Matheus Paixão (UECE), Pedro Maia (UECE), Anderson Uchôa (UFC), Chaoyong Ragkhitwetsagul (Mahidol University, Thailand)
- [16:40–16:55] **Code Smell Classification in Python: Are Small Language Models Up to the Task?** – Igor Soares de Oliveira (PUCRIO), Joanne Carneiro (LES-DI/PUC-Rio), Jessica Barbara da Silva Ribas (PUCRIO), Juliana Alves Pereira (PUC Rio)
- [16:55–17:15] **Socio-Technical Smell Dynamics in Code Samples: A Multivocal Review of Their Emergence, Evolution, and Co-Occurrence** – Arthur Ramires Rodrigues Neto Bueno (UFMS), Bruno B. P. Cafeo (UNICAMP), Maria Istela Cagnin (UFMS), Awdren de Lima Fontão (UFMS)
- [17:15–17:35] **Attentionsmelling: Using Large Language Models to Identify Code Smells** – Anderson Gomes (UECE), Denis Sousa (UECE), Paulo Maia (UECE), Matheus Paixão (UECE)

SBLP: ST4

Sala: Sala Manuel Bandeira III

Sessão: Sessão Técnica 4

•Papers:

- [16:00–16:30] **A Compiler-Driven Approach for Static Dependency Injection in Embedded Software** – Thiago Borges de Oliveira, Ariadne de Andrade Costa (UFJ)
- [16:30–17:00] **Structured platform-aware programming for Rust** – Francisco H. Carvalho-Junior, Mykael Nogueira, João Marcelo Uchôa de Alencar (UFC)
- [17:00–17:30] **Towards GPU Parallelism Abstractions in Rust: A Case Study with Linear Pipelines** – Leonardo Gibrowski Faé, Dalvan Griebler (PUCRS)

SBES: CTD

Sala: Sala Mauro Mota II

Chair: Roberta Coelho e Simone Souza

Sessão: CTD-ES - Dissertações Mestrado

•Papers:

•[16:30–16:50] **Análise Comparativa de Leis de Proteção de Dados e Frameworks de Privacidade: Otimizando Soluções para Conformidade com LGPD e Leis Internacionais** –

Lucas Dalle Rocha (UnB/Aalto University), Edna Dias Canedo (UnB)

•[16:50–17:10] **Measuring Trivial and Non-Trivial Refactoring: A Predictive Analysis and Index Proposal** – Darwin Pinheiro (UFC), Carla Bezerra (UFC), Anderson Uchôa (UFC)

•[17:10–17:30] **On the Interaction between Software Engineers and Data Scientists when Building Machine Learning-Enabled Systems** – Gabriel Busquim (PUC-Rio), Maria Julia Lima (Tecgraf PUC-Rio), Marcos Kalinowski (PUC-Rio)

26/09/2025

09:00–10:30

SBES: Keynote Rohit Gheyi (Refactoring: Challenges, Lessons, and AI Opportunities) + Premiação CTIC e CTD

Sala: Sala Manuel Bandeira I

(sem papers ou sessão fechada)

SBLP: Tutorial Parte 1

Sala: Sala Manuel Bandeira III

(sem papers ou sessão fechada)

11:00–12:30

SBES: ST20

Sala: Sala Manuel Bandeira I

Chair: Sabrina Marczak (PUC-RS)

Sessão: Human and Social Aspects V

•**Papers:**

•[11:00–11:20] **A Mapping Study About Training in Industry Context in Software**

Engineering – Breno Andrade (CESAR School), Rodrigo Siqueira (CESAR School), Antonio Oliveira (CESAR School), Lidiane Cristine de Souza Gomes (CESAR School), Danilo Monteiro Ribeiro (CESAR School)

•[11:20–11:40] **The Influence of Search Engine Ranking Quality on the Performance of**

Developers – Adriano Mendonça Rocha (UFU), Carlos Eduardo de Carvalho Dantas (IFTM), Marcelo de Almeida Maia (UFU)

•[11:40–12:00] **"Frustrating, Stressful, and Overwhelming": Insights into Software**

Practitioners' Productivity from Stack Exchange Discussions – Júlio César A Silva (UEFS), Lidiany Cerqueira (UFBA), Beatriz Silva de Santana (UEFS), Glauco de Figueiredo Carneiro (UFS), Sávio Freire (IFCE), Manoel Mendonca (UFBA), José Amancio Macedo Santos (UEFS)

•[12:00–12:15] **Communication Challenges and Practices in AI-based Software Systems: An**

Exploratory Study – SHEILA PAIVA (UFCG), Arthur Almeida Alves (UFCG), Narallyne Maciel Araújo (UFCG), Tiago Lima Massoni (UFCG), Franklin de Souza Ramalho (UFCG)

•[12:15–12:30] **AI in the Design Thinking Toolbox: What to Recommend, When, and Why** –

Isabella Macedo (IComp/UFAM), Maria Alcimar Costa Meireles (UFAM), Hannah Barreto (UFAM), Igor Steinmacher (NAU), José Carlos Maldonado (SSC/ICMC-USP/ São Carlos), Tayana Conte (UFAM), Bruno Gadelha (UFAM)

SBES: ST21

Sala: Sala Manuel Bandeira IV

Sessão: Testing, Quality & Verification III

•**Papers:**

•[11:00–11:20] **Designing Mutation Operators for Android Device Components: A View**

Through Bluetooth and Location API's – Pedro Henrique Kuroishi (UFSCAR), Ana Paiva (Universidade do Porto, Portugal), José Carlos Maldonado (USP-São Carlos), Auri Marcelo Rizzo Vincenzi (UFSCAR)

•[11:20–11:40] **Threat modelling and vulnerability assessment for IoT solutions: A case**

study – Krasen Anatoliev Parvanov (Göteborg University, Sweden), Chrysostomos Tsagkidis (Göteborg University, Sweden), Francisco Gomes de Oliveira Neto (Göteborg University/Chalmers University of Technology, Sweden)

•[11:40–12:00] **ADoTe: Approach to teaching and learning functional testing technique**

criteria supported by Testing Dojo – Vladimir Belinski (UFTPR), Adolfo G. Serra Seca Neto (UTFRP), Maria Claudia Emer (UFTPR)

•[12:00–12:15] **Leveraging N-Version Testing to Define Approximate Oracles for**

Performance Testing – Críssia Marcelino (UFPE), Breno Miranda (UFPE)

•[12:15–12:30] **Mobile Robotics for Throughput Testing in a Reconfigurable Test**

Environment – Eduardo Araujo (UFPE), Breno Miranda (UFPE)

SBES: ST22

Sala: Sala Mauro Mota I

Chair: Edson Oliveira Jr (UEM)

Sessão: Software Processes & Project Mgmt II

•**Papers:**

•[11:00–11:20] **An Ontology-based Approach for Developing Systems to Identify Who Knows**

What in Software Organizations – Carlos Eduardo Correa Braga (UFES), Abraão Santos (UFES), Monalessa P. Barcellos (UFES)

•[11:20–11:40] **Building the Landing Zone for Site Reliability Engineering: A Multivocal**

Literature Review – Luiz Alexandre Costa (UNIRIO), Awdren de Lima Fontão (UFMS), Eleni Constantinou (University of Cyprus, Cyprus), Rodrigo Pereira dos Santos (UNIRIO), Alexander Serebrenik (TU Eindhoven, The Netherlands)

•[11:40–12:00] **O uso de exemplos trabalhados para facilitar a contribuição de novatos em projetos de software livre** – Andressa S. S. Medeiros (UEM), Thelma Elita Colanzi (UEM), Igor Wiese (UTFPR), Igor Steinmacher (NAU, United States of America)

•[12:00–12:10] **KnowEval: A Tool to Support the Evaluation of Organizational Knowledge**

Transfer – Jose Wilson Cavalcanti Ferreira Junior (UFPE), WILLIBY FERREIRA (UFPE), Juliana de Albuquerque Gonçalves Saraiva (UFPB), Sergio Soares (UFPE)

•[12:10–12:20] **CaLMo: A Tool to support the use of Causal Loop Diagram in Software**

Engineering – Amanda Apolinario (UFES), Thiago Felipe Neitzke Lahass (UFES), Júlia de Souza Borges (UFES), Paulo Sérgio Santos Júnior (IFES), Monalessa P. Barcellos (UFES)

•[12:20–12:30] **Silver Bullet - Software Project Management Process Support Tool** – Raul Neves (UNIPAMPA), Maicon Bernardino (UNIPAMPA), Matheus Dias (UNIPAMPA), Dionas Luan Müller (UNIPAMPA), Fábio Paulo Basso (UNIPAMPA), Elder Macedo Rodrigues (UNIPAMPA)

SBES: ST23

Sala: Sala Mauro Mota II

Chair: Rodrigo Bonifácio (UnB)

Sessão: AI4SE III

•**Papers:**

•[11:00–11:20] **GenIA-E2ETest: A Generative AI-Based Approach for End-to-End Test**

Automation – Elvis Junior (UFF), Alan Valejo (UFSCAR), Jorge Carlos Valverde-Rebaza (Tecnologico de Monterrey, Mexico), Vânia de Oliveira Neves (UFF)

•[11:20–11:40] **An Empirical Study on the Effectiveness of Iterative LLM-Based**

Improvements for Static Analysis Issues – João Carlos Gonçalves (UFU), Marcelo de Almeida Maia (UFU)

•[11:40–12:00] **Measuring how changes in code readability attributes affect code quality**

evaluation of Large Language Models – Igor Regis da Silva Simões (Banco do Brasil/UnB), Elaine Venson (UnB)

•[12:00–12:20] **Automatic Identification of Machine Learning-Specific Code Smells** – Peter Hamfelt (Roxtec, Sweden), Ricardo Britto (Ericsson/BTH, Sweden), Lincoln S. Rocha (UFC), Camilo Almendra (UFC)

•[12:20–12:30] **Solaria-GPT: A Tailored ChatGPT Tool for Usability Inspection** – Lennon Chaves (Universidade Federal do Amazonas UFAM), Márcia S. Lima (UEA), Tayana Conte (UFAM)

SBES: Tools Demonstration Session 2

Sala: Sala Mauro Mota III

Chair: Cleidson Souza e Thelma Colanzi

Sessão: Tools Demo 2

•Papers:

•JS-Distributor: decomposing monolith applications into microservices – Daniel Lucrédio (UFSCAR), Guilherme Escher (UFSCAR), Maurício Almeida (UFSCAR), João Vitor Fidelis Cardozo (UFSCAR), Romeu Leite (UFSCAR), Ivan Capeli Navas (UFSCAR), Vinicius Nordi Esperança (UFSCAR)

•FluentArch: uma abordagem moderna para verificação de conformidade arquitetural para C# – Arthur Castro, Ricardo Terra (UFLA)

•Uma ferramenta para apoiar a análise de requisitos de software de IoT utilizando técnicas de agrupamento – José Ruan Sampaio, Bruno Silva (UFMA), Rodrigo Pereira dos Santos (UNIRIO), Davi Viana (UFMA)

•womeninoss.com: Supporting women participation in OSS communities with an online platform – Gessyca Moreira (IFMG), Juliana Freitas (FURG), Sarah Burvant (Louisiana State University), Caitlynn Sengchiam (Louisiana State University), Suelen Mapa de Paula (IFMG), Felipe Fronchetti (Louisiana State University)

•Thoth 2.0: Advancing an RSL Tool for Enhanced Snowballing Support – Diego dos Santos Comis (UNIPAMPA), Elder Macedo Rodrigues (UNIPAMPA)

•QAnubis - Uma Ferramenta Web de Apoio ao Processo de Análise Qualitativa – Elder Macedo Rodrigues (UNIPAMPA), Ildevana Poltronieri (UNIPAMPA), Maicon Bernardino (UNIPAMPA), Fábio Paulo Basso (UNIPAMPA), Giliardi Schmidt (UNIPAMPA), Lucas Campello Pieva (IFFarroupilha)

•PeacemakerBot: A LLM-Powered Bot for Identifying and Reducing Signs of Incivility in GitHub Conversations – Antonio Gomes, Emanuel Avila (UFC), Eric Mesquita, Carlos Jefté, Arthur Mesquita, Lucas Sousa (UFC), Matheus Rabelo (Universidade Federal do Ceará UFC), Mairieli Wessel (Radboud University), Anderson Uchôa (UFC)

•SafeSecRETS: A Safety and Security Requirements Tool for Critical IoT Systems – Ernesto Fonseca Veiga (UFG), Taciana Novo Kudo (UFG), Renato Bulcão-Neto (UFG)

•Kworkflow: A Linux kernel Developer Automation Workflow System – David Tadokoro (USP), Rodrigo Siqueira (Igalia), Paulo Meirelles (USP)

•ArchLintor: detecting architectural violations in TypeScript systems – MATHEUS HENRIQUE CARVALHO DE PAIVA RESENDE, Rafael Serapilha Durelli (UFLA), Ricardo Terra (UFLA)

•Tool Support for Spectrum-based Fault Localization during Continuous Integration – Erickson Lima Barbosa da Silva (USP), Roberto Paulo Andrioli de Araujo (USP), Marcos L. Chaim (USP)

SBLP: Tutorial Parte 2

Sala: Sala Manuel Bandeira III

(sem papers ou sessão fechada)