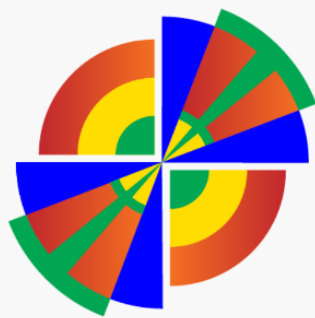




CBSOFT'25

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

ANAIS

IV Workshop Brasileiro de Engenharia de Software Inteligente (ISE 2025)

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Willian Oizumi - Google

Prefácio

Os Anais do IV Workshop Brasileiro de Engenharia de Software Inteligente (ISE 2023) trazem os artigos selecionados e apresentados na edição do evento realizado em 23 de setembro de 2025, na cidade de Recife/PE, em conjunto com o XVI Congresso Brasileiro de Software: Teoria e Prática (CBSOFT 2025). Nesta edição, os anais incluem 08 artigos técnicos e 01 artigo de indústria/resultados emergentes. Esses trabalhos foram selecionados através de um processo de revisão por pares do tipo double-blind review. O comitê de programa do evento foi coordenado por Mirko Perkusich (VIRTUS/UFCG), Danyllo Albuquerque (UFCG), Matheus Henrique Esteves Paixão (UECE) e Emanuel Dantas (IFPE), que organizaram este volume. Os artigos que integram essa série de anais foram submetidos em 16/07/2025, aceitos para publicação em 06/08/2025, tendo a versão final submetida em 10/08/2025.

Palestrantes

Roberta Arcoverde - Google

Title: Safe AI and AI-Powered Safety

Abstract. Protecting AI systems, applications, and users at scale is a challenge that requires developers to have a deep understanding of both AI-specific privacy and security risks and established secure coding practices. The Secure AI Framework (SAIF) describes Google's approach to managing AI risks, covering the security of data, models, infrastructure, and applications involved in AI development. This framework aligns with Google's Responsible AI Practices to keep more people safe online. In this talk, we will explore SAIF and its application to mitigating AI-specific risks such as model exfiltration, data poisoning, malicious prompt injection, and the disclosure of sensitive data from training sets. We will also explain how Google leverages AI to make our products and services safer.

Short Bio. Roberta Arcoverde is a seasoned software engineer with extensive experience. She holds a degree in Computer Science from the Universidade Federal de Pernambuco (UFPE) and a master's degree in Informatics from the Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio). In 2013, Roberta joined Stack Overflow as a software developer, becoming the first Brazilian to be part of the site's team. Over her tenure, she contributed to various teams and projects, eventually becoming Director of Engineering. Currently, Roberta is an engineering manager at Google, where she continues applying her software engineering expertise. Beyond her professional roles, Roberta co-hosts the Hipsters.tech podcast, sharing insights on technology and software development. She has also participated in industry events and conferences, including as a keynote speaker at SBCARS 2023. Her career exemplifies a robust blend of professional practice and academic contribution to software engineering.

Rodrigo Vilar - VIRTUS

Title: Using LLMs to Drive Agile Project Intelligence at VIRTUS/UFCG

Abstract. In this keynote, we present a real-world application of Large Language Models in agile project monitoring at VIRTUS, a Research and Innovation Center at the Federal University of Campina Grande (UFCG). We developed an AI-powered prompt interface that enables users to ask natural language questions about project status. These queries are processed by an LLaMA-based LLM using a Retrieval-Augmented Generation architecture tailored to our BI tool, CubeJS. The LLM orchestrates workflows through LangGraph, coordinating agents for metadata retrieval, caching, refinement, and conversation history. A no-code approach was adopted to streamline workflow composition and foster accessibility. We will discuss the solution architecture, development journey, and practical challenges faced throughout the project. The keynote also includes live examples and insights from its use in ongoing VIRTUS initiatives, demonstrating how LLMs can bring agility and intelligence to project management.

Short Bio. Rodrigo Vilar is a full-stack developer with a solid academic background in Computer Engineering from the Federal University of Campina Grande (UFCG). Currently, he serves as a Full Stack Developer at Lumenalta (formerly Cleverttech), where he applies his software development skills to deliver innovative technological solutions. Rodrigo has accumulated diverse experiences throughout his career, including roles such as Founder, Assistant Professor, Technical Leader, and Senior Software Engineer. These positions have allowed him to gain a comprehensive understanding of the software development lifecycle, from conception to implementation and maintenance. His professional journey is marked by his ability to lead teams, share knowledge, and adapt to different technological contexts. His robust academic training and practical experience highlight Rodrigo as a versatile professional committed to excellence in software engineering.