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SymbIAG: Collaboration and Lifecycle at the core of AI Governance

The paper addresses the early-stage industrialization of AI, focusing on AI Services Lifecycle Management. It introduces operationalization and industrialization concepts, emphasizing reusability, scalability, and safety for accelerated AI adoption. The study proposes a taxonomy for classifying AI services, particularly in the context of AI as a Service (AlaaS). The API economy and API Lifecycle Management are discussed, stressing the importance of well-planned governance. Collaboration Engineering is introduced to distinguish communication, coordination, and cooperation in collaborative efforts. The SYMBIAG framework is presented as a model for AI Services Industrialization, incorporating Collaborative AI Service Lifecycle Management. The framework, organized in layers and stages, aims to provide a methodological approach for identifying and implementing AI Services business cases. The paper concludes by summarizing key findings, acknowledging limitations, and suggesting future research directions, including the need for further validation of the proposed framework and a more in-depth analysis of AI's impact on each stage of the AI Service Lifecycle.

Keywords: AI, AI Service, AI Economy, AI Services Lifecycle Management, AI Service Governance

Biography

Dr. David Roldan Martinez has a 20 years of experience in software systems architecture. Holding a PhD in Telecommunications Engineering, He is also an Associate Professor at the Universitat Politècnica de València and a researcher at VRAIN, where he is working on a second PhD. His expertise lies in APIs and their applications across sectors like Banking, Insurance, and Retail, as well as in Artificial Intelligence and Digital Transformation. Additionally, He is a prolific scientific-technical popularizer with over twenty books, and he have a keen interest in personal development and coaching.