APPLIED INTELLIGENCE GROUP – GRUPO DE INTELIGÊNCIA APLICADA - GIA

Universidade do Vale do Itajaí (UNIVALI) / Applied Intelligence Laboratory (LIA)

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Área: Ciências Exatas
Linhas de Pesquisa: Data Science; Game development; Intelligence Applied to the Environment; Intelligence Applied to Education; Intelligence applied to Health; Computational Sustainability

Breve descrição das atividades de pesquisa

The Applied Intelligence Group is 22 years old, and throughout its history, it has been developing research in Artificial Intelligence, with external support, in partnership with several educational institutions in the country. Currently, the group develops research in partnership with UFSC, UCB, USP, UFJF, and Instituto Politécnico Portalegre- Portugal. The group has three FAPESC funding projects underway, focusing on Applied Health Intelligence; and Intelligence Applied to the Environment, and research projects approved at FAP/DF in cooperation with UCB. It also participates in the CASSIE consortium for coastal management. Its researchers work on projects in the electricity and educational sectors. In addition, the group provides services to companies in the field of data analysis. Annually, the members of the group organize Computer on the Beach, a national event that brings together researchers from different areas of Information Technology.

Impacto das pesquisas desenvolvidas para a sociedade e ciência

The group's research has focused on three major pillars: (i) Intelligence applied to Education, in the themes of Virtual Adaptive Learning Environments, Adaptive Training Itineraries, BI Systems for Education, Health, and the Environment, as well as the application of Natural Language Processing for Automated Writing Correction, Textual Semantic Analysis, Discourse Analysis. (ii) Intelligence applied to health and the environment, through the application of machine learning techniques, and/or computer vision in large databases. This line seeks to work with the Artificial Intelligence of Things to help in the context of patient monitoring and agriculture. (iii) Sustainability, through machine learning applications in the context of energy efficiency.