COMPUTATIONAL INTELLIGENCE AND IMAGE ANALYSIS

INTRODUCTION

The core activity of this group is focused on the development of models for neurocomputation, deep learning, computational learning, computer vision and image analysis. The product of their research has been applied to various sectors such as video surveillance, e-learning and biomedicine.

RESEARCH TOPICS

- Neurocomputation: deep learning, supervised and non supervised networks.
- Analysis of digital images. Medical image processing.
- Analysis of clustering and classification. Recognition and identification of patterns.
- Computational Learning.
- Logistics and transport systems.
- Systems to support decisions.
- Intelligent video surveillance.
- Artificial intelligence applied to cardiology, finance, agriculture, and the aerospace industry in satellites.
- Natural language processing and large language models (LLM).
- Neural rendering.

SCIENTIFIC-TECHNICAL SERVICES

- Artificial intelligence applied to medicine.
- Data Acquisition System via GPS.
- Design & manufacture of digital mobile video sensors (systems for inspection tasks and surveillance). Computer vision systems for video surveillance.
- Analysis of digital images to detect abnormalities.
- Design and optimization of logistics and transport networks.
- Generation of perspectives of three-dimensional scenes.
- Design of prototypes of applied artificial intelligence systems.
- Advice on business strategies in the field of artificial intelligence.

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