



DESCRIPTION

Artificial Intelligence (AI) is finding applications in industry, where the availability of low-cost powerful computing along with advances in Machine Learning algorithms allows intelligent decision-making, thereby saving time and cost while increasing accuracy. CSEM has been helping clients to implement machine learning in their products and processes for more than 20 years. From rail track inspection to machine tool defect control; from Optical Character Recognition (OCR) for automated meter read-out to biometrics; from automotive to agriculture, CSEM's expert team provides system-level solutions from data acquisition to processing, visualisation and automation.

FUNCTIONALITIES & CHARACTERISTICS

- Intelligent neural network for accurate identification, classification and decision making
- Classification of features (Image & Time series)
- Defect detection and predictive maintenance
- Edge-based pre-processing to remove unwanted data for increased speed and efficiency
- Prediction
- Automation of complex tasks

EXAMPLES OF APPLICATIONS

- Quality control, Defect analysis, Process Control, Medical Diagnostics, Drone/Satellite images processing, Data validation and cleaning, Smart Data, Digital Agriculture, Online health monitoring of machines or equipment

UNIQUENESS

The application of deep learning and other advanced algorithms in industrial environments is about to make a breakthrough and to offer tremendous potential for innovation in industry. However, there is still a lack of in depth knowledge and experience on combining detailed knowledge of the industry and Machine learning specialists. CSEM is one of the leaders in this field and our team is capable of designing new neural networks from scratch or combining proven ones with open-source tool and selection of the most suitable algorithms.