



JoltSynSor

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Making infrastructure health check as reliable, routine, and accessible as an MRI scan, powered by AI.

WEBSITE

Overview

Joltsynsor is at the forefront of AI-driven structural health monitoring (SHM), offering innovative solutions that enhance infrastructure reliability, safety, and longevity.

Their cutting-edge technology integrates advanced AI, machine learning, and durable sensor technology to deliver unparalleled insights and proactive maintenance capabilities.

The Challenge

European infrastructure is aging rapidly, with many structures over a century old. This has led to skyrocketing maintenance costs, due to outdated and ineffective monitoring methods. The current reliance on manual, slow, costly, and unsafe visual inspections only add to the problem. Additionally, existing sensors are not durable and require frequent, expensive maintenance. The vast amounts of data generated by these systems are underutilized, leading to missed insights and inefficiencies. This combination of aging infrastructure, high costs, outdated techniques, and poor data utilization poses significant risks to safety and economic stability.



The Solution

Unlike traditional methods that rely on visual inspections and surface-level assessments, the JoltSynSor's patent-protected sensors measure loads within concrete directly, and their Lidar technology assesses overall structural distortion with high accuracy and reliability. This inside-out approach allows us to detect early signs of damage from within the structure, enabling timely and effective maintenance interventions.

The technology built by JoltSynSor is highly valuable to construction, maintenance, and asset owner, enhancing safety, reliability, and cost-efficiency. The real-world impact includes significantly reducing maintenance costs, streamlining structural health checks, improving safety, extending the lifespan of infrastructure, and reducing overall carbon emissions.

Patents and Publications

- Apparatus for measuring soil contact stresses

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