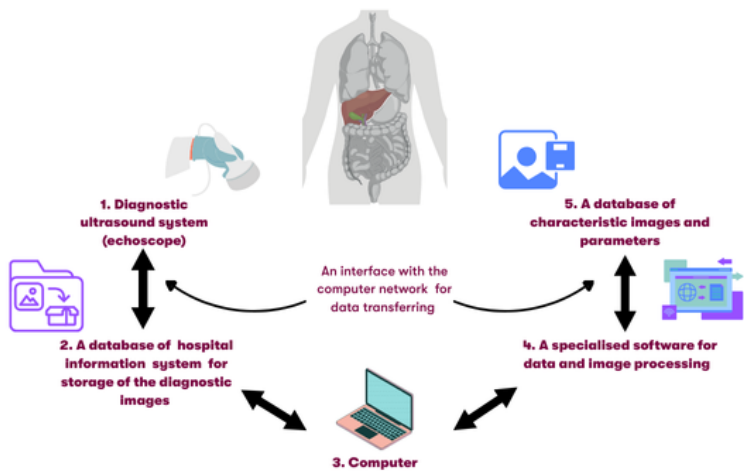


Revolutionizing Pancreatitis Diagnosis with AI-Powered Ultrasound Analysis

BRIEF DESCRIPTION

A cutting-edge diagnostic system that combines **standard and contrast-enhanced ultrasound** with **AI-driven image analysis** to detect **acute pancreatitis** and **non-viable pancreatic tissue**—faster and more accurately than ever before.



KEY FEATURES

- **Dual-Modality Imaging:** Integrates traditional and contrast-enhanced ultrasound for comprehensive tissue visualization.
- **AI-Powered Diagnostics:** Neural networks analyze signal patterns to identify early signs of inflammation and necrosis.
- **Safe & Efficient:** Uses non-nephrotoxic contrast agents—ideal for patients with renal concerns.
- **Real-Time Insights:** Provides automated diagnostic recommendations to support clinical decision-making.

BENEFITS

- **Accelerates** diagnosis and treatment planning.
- **Reduces** reliance on CT/MRI scans.
- **Enhances** precision in identifying critical pancreatic conditions.
- **Supports** targeted biopsies and personalized care.

INTELLECTUAL PROPERTY

US Patent: US12272057B2
EP Patent: EP4182884A2
LT Patent: LT6911B

INVENTORS

- Assoc.prof. Aistė Kielaitė-Gulla
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PUBLICATIONS

Aiste Kielaitė-Gulla, Arturas Samuilis, Renaldas Raisutis, Gintautas Dzemyda, Kestutis Strupas. The Concept of AI-Based Algorithm: Analysis of CEUS Images and HSPs for Identification of Early Parenchymal Changes in Severe Acute Pancreatitis. Informatica (2021).



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APPLICATION

- Diagnostics pancreatic tissue
- Ultrasound diagnostics
- Available for in vivo testing

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