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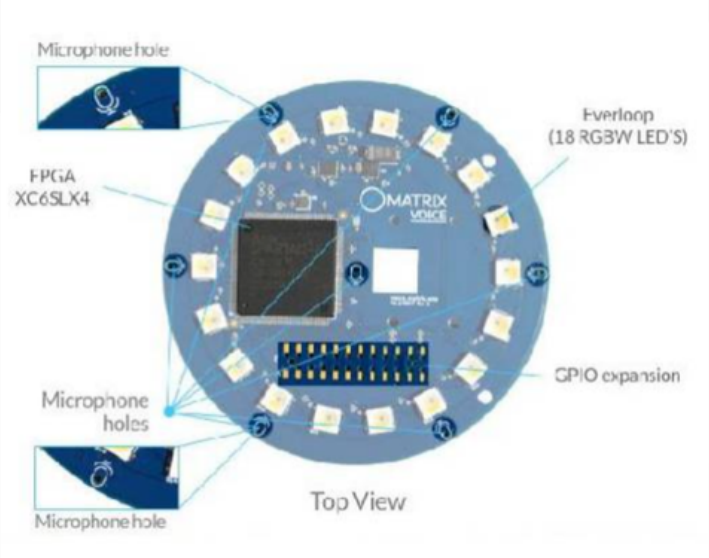
SYSTEM AND METHODS FOR ON THE FLY INTELLIGENT KNOWLEDGE ACQUISITION AND CONTEXT AWARE SCRIBING USING IOT

Seeking parties interested in licensing and commercialization of technology.

Technology Brief

This technology discloses an IoT-driven system and computer-implemented method designed for multi-granularity, context-aware lecture recording, indexing, and automatic scribing in diverse acoustic environments. The architecture comprises an IoT edge device for local data collection and pre-processing, a cloud-based server framework utilizing MapReduce (MR) for scalable distributed processing, and an orchestrator to manage indexing and synchronization. By analyzing ambient audio and temporal context, the system automatically correlates spoken lecture transcripts with corresponding presentation slides, providing intelligent, on-the-fly knowledge acquisition without requiring manual note-taking or post-processing.

Block Diagram



Technical Applications

This smart scribing solution is tailored for higher education institutions, corporate training hubs, and remote learning environments to generate automated, highly searchable lecture repositories and indexed study materials. Additionally, it can be deployed in enterprise meeting rooms and conference venues to facilitate automated minutes-of-meeting generation, multi-speaker voice transcript synchronization, and context-aware knowledge extraction.

Salient Features

- Distributed IoT Edge & Cloud Architecture
- Automated Slide & Audio Correlation
- Acoustic Noise Resilience

Glimpse of the Technology

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iTNT-TECH-0194

TECHNOLOGY SECTOR
Enterprise Applications

IP STATUS
Patent Granted

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TECHNOLOGY READINESS LEVEL
TRL 3

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