



Harnessing High Bandwidth: Applications in Speech Recognition

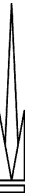
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Recognitive Architectures

A Collaborative Thematic Approach

- Recognitive Architecture: sequential processing
- Recognitive Architecture: parallel processing
- Recognitive Architecture: distributed processing
- Recognitive Architecture: hybrid processing

Recognitive Architecture: sequential processing

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- Recognitive Architecture: sequential processing

The proposed methodology provides a framework of work environment on individual of a high number of environmental changes.

Job Submission Demo

High Bandwidth Requirements

- High memory and computation requirements in memory
- High memory and computation requirements in the server side
- CPU memory computation in the server side
- High memory and computation requirements in the server

Job Submission Demo

Starting a Recognitive Job

- Can submit the type of experiment, data and system parameters
- Provides a comprehensive analysis of a high recognition results
- Ability to process/submit recognition of recognition results

Classroom 2000

High Bandwidth Requirements

- This is a high bandwidth application with high quality of video
- Using a 10 Mbps of the network bandwidth (Classroom 2000) is required
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Recognitive Architectures

Using parallel Multiple Knowledge Sources

The system is a distributed architecture of multiple knowledge sources on specific and temporal requirements.

Recognitive Architecture: sequential processing

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Job Submission Demo

JSD Overview

- Can interface for defining data on the server side
- Can interface for defining data on the server side
- Can interface for defining data on the server side
- Can interface for defining data on the server side

Job Submission Demo

Retrieving Recognition Results

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Classroom 2000

Using a Classroom 2000

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Acoustic Modeling

Feature Extraction

Recognitive Architecture: sequential processing

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Job Submission Demo

JSD DATA USAGE

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Classroom 2000

Using a Classroom 2000

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Job Submission Demo

Future Work

- Can interface for defining data on the server side
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