

Product Sheet

Media Asset Management

YES!MAM

Artificial Intelligence



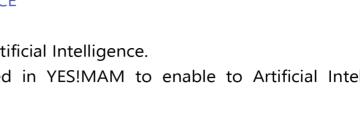
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SI MEDIA AI

the second half of 2022.

SI Media has developed its own AI framework, with an internal R&D project that started in The purpose of the project was to develop a framework, integrated with YES!, to extrapolate

descriptive metadata from video contents, which would then be processed and managed by YES!MAM. A major plus of SI Media AI is that it can be installed not only in the cloud but also on premises, allowing the customer to keep its contents on site.

Warning

Metaliquid Tom Hanks 00:00:25:00 00:01:00:00

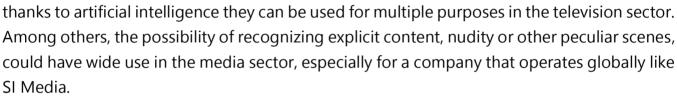
In this first phase, SI Media focused on developing the following AI services. Face recognition of celebrities, politics... Explicit contents recognition, such as nudes, covered/exposed belly,

The SI Media AI framework manages the distribution of different computations on neural

Each neural network will be focused on a specific analysis and will be processed on virtual

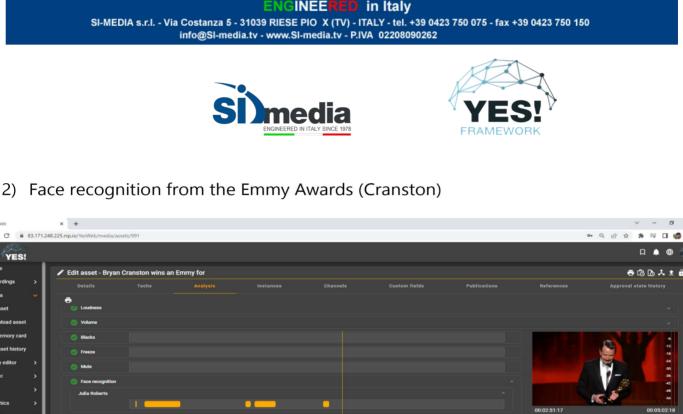
The extrapolated metadata will then be sent and processed by the YES platform, where

ED in Italy



or physical servers capable of exploiting the NVIDIA GPU.

covered/exposed buttocks, covered/exposed feet, .. Speech to text: transcribe speeches and dialogues



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FLEURS

18.3

10

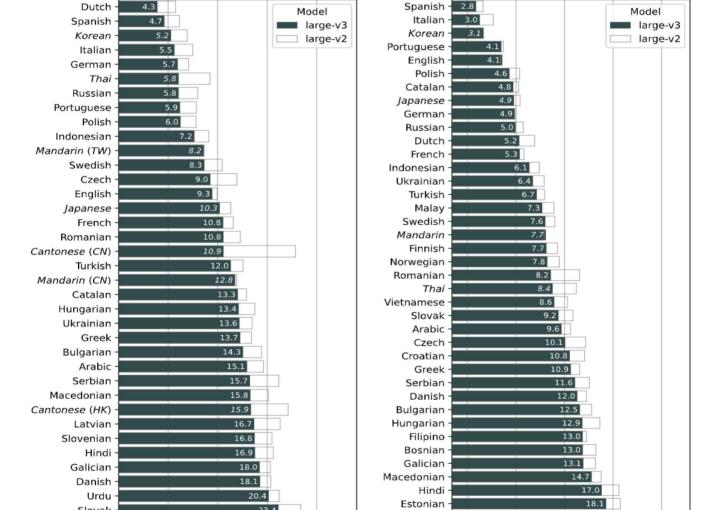
WER or CER (%)

20

47.4

40

* 🗆 🦃



Tamil

Urdu

Latvian

Hebrew

Icelandic Kazakh

Afrikaans

Kannada

Marathi

Swahili

Telugu

Maori

Nepali

Armenian

Belarusian

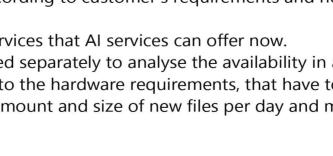
Gujarati

Punjabi

Bengali

Welsh

SI MEDIA INTEGRATION WITH 3RD PARTY AI SIMedia YES!MAM can integrate the major machine learning and artificial intelligence



and size Western characters recognition frame by frame.

Detect music, dialogue, undefined/other audio Detect graphics layers, their position Recognize language spoken in to text application. Transcript dialogues and speeches (real-time) and detect customized topics. Translate dialogues and speeches.

Edit asset - ForBiggerFun ō Volume Freeze

The major target of our AI projects are television broadcasters, media networks, productions house, media group. By developing a deep learning framework, SI Media can reply to a constantly growing demand for AI services, coming from all the major markets.

INEER SI-MEDIA s.r.l. - Via Costanza 5 - 31039 RIESE PIO X (TV) - ITALY - tel. +39 0423 750 075 - fax +39 0423 750 150 info@SI-media.tv - www.SI-media.tv - P.IVA 02208090262

YES!MAM is deeply integrated with Artificial Intelligence. A dedicated plug-in can be activated in YES!MAM to enable to Artificial Intelligence YES!MAM can work with both our internal AI or integrating any 3rd party AI engines, such as

HeadQuarters: via Costanza, 5 - 31039 Riese Pio X (TV) - Italy YES!MAM and ARTIFICIAL INTELLIGENCE

management. AWS and Microsoft.

SI Media. Al results will be displayed within the Quality Check\analysis interface in YES!MAM UI. 1) Face recognition from the Emmy Awards (Zendaya)

networks for learning.

OCR

Speech translation

displayed in YES!MAM UI via API. (as displayed above). variables.

AI SERVICE

Common Voice 15 Dutch Slovak Hebrew Finnish Azerbaijani Lithuanian Estonian Nynorsk

★ Workflow editor - EXPORT ASSET

Baseline services Shot detection Audio classification Graphic & text Graphics detection

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Welsh Punjabi Afrikaans Persian Basque Vietnamese Bengali Nepali Marathi Belarusian Kazakh Armenian Swahili Tamil Albanian 20

Audio & Voice Language detection

Slovenian Azerbaijani Lithuanian

40 WER or CER (%)

Voice recognition & statistics Speakers change detection Speech to text & topic detection¹ Out of the box services **Face detection & verification Celebrity recognition** Logo detection & recognition **Object detection & recognition** Scene recognition

3) Explicit contents recognition (Italian movie) – content moderation

41.2 43.7

to AI services to be processed.

4) Speech to text: the result of each language is displayed in the following table

The results of the AI processes and the generated metadata can be imported and The AI results will be displayed within the Quality Check\analysis interface for each asset In the scenario of YES!MAM integrating 3rd party AI, additional AI services could be integrated and customized according to customer's requirements and needs. Following, a list of the main services that AI services can offer now. Each service has to be evaluated separately to analyse the availability in a certain country and the feasibility, in addition to the hardware requirements, that have to be evaluated in each case, depending on the amount and size of new files per day and many other **ENGINEERED** in Italy SI-MEDIA s.r.l. - Via Costanza 5 - 31039 RIESE PIO X (TV) - ITALY - tel. +39 0423 750 075 - fax +39 0423 750 150 info@SI-media.tv - www.SI-media.tv - P.IVA 02208090262

services, such as Amazon Web Services, Azure and google cloud. Specific workflows can be configured in YES!MAM workflow manager to upload contents

In the following table the main services available in the market. **DESCRIPTION** Detect shot change (including transitions)

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Metadata categories

Sensitive detection

(nudity) **Emotion detection** Opening/ending credits detection

credits

dialogues and enable coherent Speech Recognize voice and report statistics Detect speaker changes in dialogue Detect faces and assign them a unique Recognize global and local celebrities Recognize global and local brands Recognize objects Recognize outdoor & indoor settings Detect nudity in video content Recognize emotions (anger, happiness, sadness, disgust, fear, etc.) Detect standard opening and ending

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month. needs.

extended upon request. **extended** upon request extended upon request. extended upon request. voices taxonomy. extended upon request. extended upon request. faces taxonomy. Flexible taxonomy. New extended upon request. extended upon request. extended upon request. **extended** upon request. Credits recognition can be customized

extended upon request.

PLUS Shot detection is used to deliver shot level aggregated metadata Current taxonomy could be New label can be assigned to undefined speakers to enrich Current **taxonomy** could be Current **taxonomy** could be New label can be assigned to undefined identities to enrich celebrities can be added every Current **taxonomy** could be Current taxonomy could be Current **taxonomy** could be Different level of sensitive can be detected according to customer Current taxonomy could be