



Augmented Reality Scientific Posters

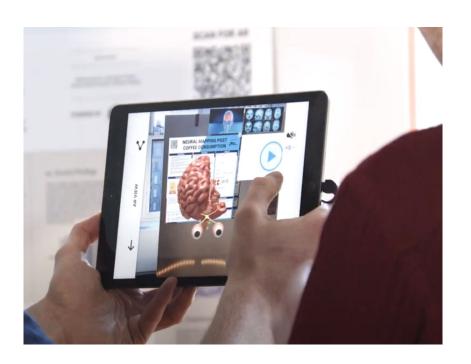
Quick Guide

May 2022

Our Mission

Provide a cost-effective SaaS platform that enables businesses and organizations to quickly create and deploy Augmented Reality (AR) experiences, improving audience engagement and conversions.

Post Reality Solutions



AR Presentation SaaS Platform



Custom Enterprise

The Scientific Poster Market

Dreaded "Wall of Words"

METHODOLOGY —

The algorithm proposed in this paper was mainly based on a 3D convolutional nearl network with the dual scale from two paths. The overall scheme of the algorithm was as follows:

- 1. Filtered and normalized the original CT images;
- 2. Segmented the 3D CT images into several sub-image blocks, which were used as the input of TDP-CNN. The architecture of TDP-CNN was shown in Fig. 2. There were two paths in the TDP-CNN, and each path was composed of eight blocks, and all the blocks had the same architecture, which included one convolutional layer, one batch normalization layer, and one activation layer. The feature maps of two paths were fused, and input into the fully connected layer, and then classified in the softmax layer.
- The trained TDP-CNN was used to segment the liver and liver tumor, and generate probability maps of the segmentation results;

RESULTS/FINDINGS —

In the experiment, we used the public dataset liver tumor segmentation (LiTS) to analyze the segmentation results qualitatively and quantitatively. Ground truth segmentation of liver and liver tumor was manually labeled by an experienced radiologist. Quantitative metrics were Dice, Hausdorff distance, and average distance. For the segmentation results of liver tumor, Dice was 0.689, Hausdorff distance was 7.69, and the average distance was 1.07; for the segmentation results of the liver, Dice was 0.965, Hausdorff distance was 29.162, and the average distance was 0.197. Compared with other liver and liver tumor segmentation algorithms in Medical Image Computing and Intervention (MICCAI) 2017 competition, our method of liver segmentation ranked first, and liver tumor segmentation ranked second.

CONCLUSION —

This paper proposed a TDP-CNN architecture based on deep learning, which can be used to segment liver and liver tumor from the 3D abdominal CT images. The special design for 3D medical image data can make TDP-CNN balance the segmentation performance and the requirement of computational resources. Compared with other liver and liver tumor segmentation algorithms, our method directly used 3D image data in the whole TDP-CNN architecture, instead of 2.5D image data or small 3D network. Experiments showed that our method had Dice value 0.965 for liver segmentation and Dice value 0.689 for liver tumor segmentation. These quantitative metrics indicate that our method can accurately segment liver and liver tumor from 3D abdominal CT images.

Pain Points

- Information overload, main ideas get lost
- Poor dissemination
- Limited interaction between creators and viewers
- Not collaborative
- No post-conference life
- No data insights

Solutions

- Main ideas emphasized and remembered
- Everyone can access posters anywhere at anytime
- Email, in-app messaging and voice
- Interaction possible with others, voice chat during and after conference
- Posters saved so review and communication can continue
- Analytics provide valuable insights





The Federation of European Biochemical Societies Study

Key Findings

- 84% of delegates presented work in poster format
- Their value is undermined by their limited ability to disseminate information and facilitate networking
- User Insight: "too many posters, too little time"

Users Want

- 56.7%: Better organization of poster sessions
- 67.6%: Publication of posters... in an online repository / journal
- 45.9%: Wider exposure to conference delegates
- 40.5%: Increased exposure post-conference

Place presentations in any physical space



Access to the physical poster is not required, increasing post-conference engagement.

Post Reality Scientific Poster Suite

Create and view engaging posters.

Post Reality allows the presenter to transform complex scientific posters into engaging and memorable experiences with multimedia, such as images, audio, videos, 3D models and links.

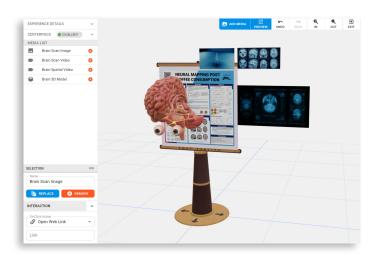
The Platform Consists of:





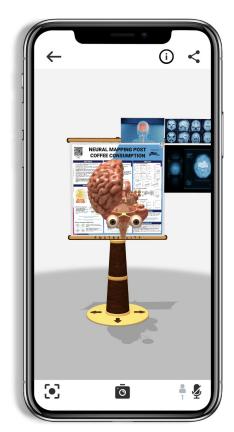
Mobile Viewer

DIY Online Studio



- Enhance presentations with 3D models,
 photos, videos, links to important papers
- Invite users to join your account
- Manage teams and conferences
- Moderate experiences
- View analytics

Viewer App



View a poster with your phone or tablet and see it jump to life.

- Relevant media that tell the full story
- Physically move around to view models from different perspectives
- Engage with the creator or other viewers through voice or text
- Save all your posters for later viewing
- Use analytics to better understand your audience

Try It Out!

See how Post Realty transforms a dense poster into an engaging and memorable experience.

To See This Presentation In Your Room:

Scan to download the free Post Reality App.



In the app, scan the QR code to activate this presentation.

Choose between:









NEURAL MAPPING POST **COFFEE CONSUMPTION**



ABSTRACT

- perceptual and emotional nature1-3
- The ability to induce vivid coffee drinking emotional states is likely due to the intimate anatomical connection between the primary offactory cortex and the limbic system
- We investigated the neural representations of coffee odor-cued autobiographical memories using functional MRI.
- We identified odors that 4 participants associated with vivid memories and assessed the temporal and spatial coherence of these memories using intra-subject correlation
- We examined regions where the BOLD signal and spatial pattern of activation were highly stable over multiple retrievals of the same
- We found that repeated memory retrievals produced strong temporal coherence in the visual cortex, paracingulate gyrus, hippocampus. amygdala, and insula, and strong spatial coherence in the visual

BACKGROUND



and average signal over these

Do not have access to the original encoding phase of

Must limit the number of retrievals to protect the authenticity of



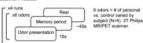
Compares responses across repeated presentations of the same stimulus within a We are comparing the coherence of the

BOLD signal and spatial pattern of activation generated via repeated retrievals

METHODS

Personal odors: odors that participants identified as evoking strong Control odors: odors that the other participants identified as

personal, did not evoke a memory.



Jon 1. Quantify the TEMPORAL and SPATIAL coherence of

Hypothesis: Offactory memories, when compared to control odors. will be characterized by stronger correlations extending into higher

im 2: Differentiate individual offectory memories based on their MPORAL and/or SPATIAL signatures.

Hypothesis: Repeated retrievals of the same memory will produce highly correlated patterns, while comparisons of different memories will produce less correlated activity.

Strong correlations, observed in several higher-order regions



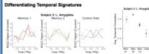
Whole Brain Temporal Correlation Maps







ROI - Driven Temporal Correlation



CONCLUSIONS

- Strong temporal correlations in the paracingulate, ACC, hipp., armpy. insula, and visual cortex and spatial correlations in the visual cortex
- spatial signatures.

Novel metric reveals that unique, naturally formed autobiographical offactory memories produce highly reliable neural activity across a range of networks.

REFERENCES





Corporate

XR Digital Content



Corporate & Academic

AR Activation SaaS Platforms



Architecture, Engineering & Construction

Augmented Reality Software and Services



Financial Services

Data Visualization, Analysis, Presentation & Collaboration for VR/AR



3D Model Creation

Large Scale
Photogrammetry
Production



Corporate & Universities

Corporate Training and E-learning



Media & Entertainment

Realtime and On-Demand VR Broadcasting



XR Training

Intensive XR Bootcamps



Therapy & Support

Social VR Experiences & Environments



Brands, Agencies & Retail

Lifelike 3D models & AR Experiences



Education

VR/AR for the K-12 education market

IMMERSIVE HEALTH GROUP

Healthcare & Nurses Training VR/AR for Medical Professional Training

We work with our sister companies to deliver multi-disciplinary projects when required

Thank You





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Select Post Reality and Glimpse Group Customers in Life Sciences and Academia





























