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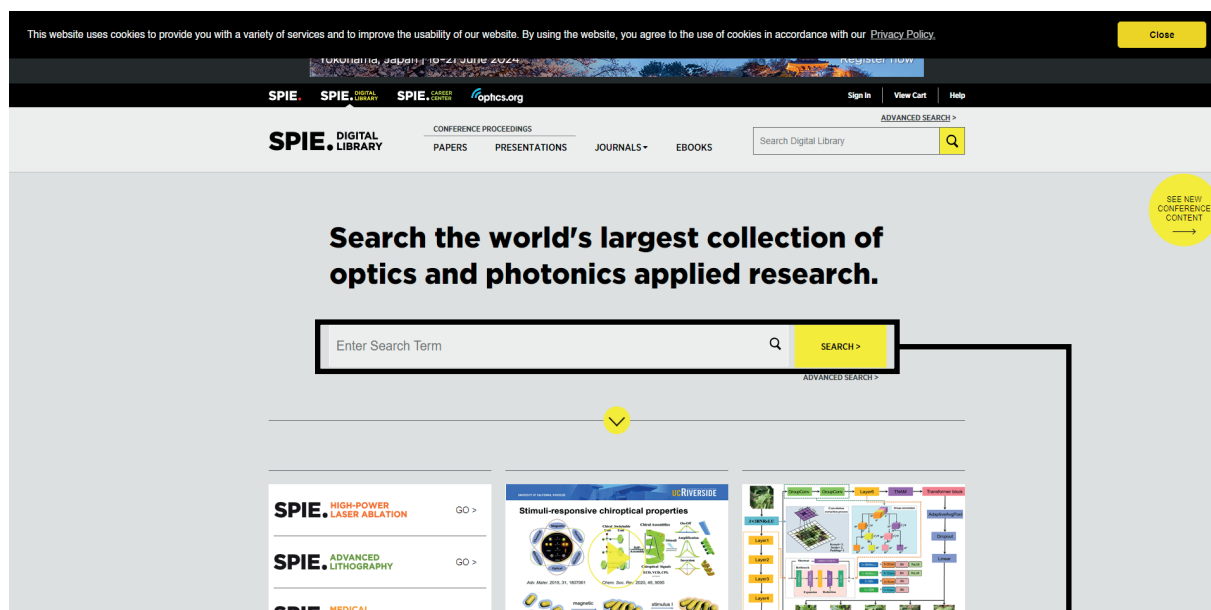
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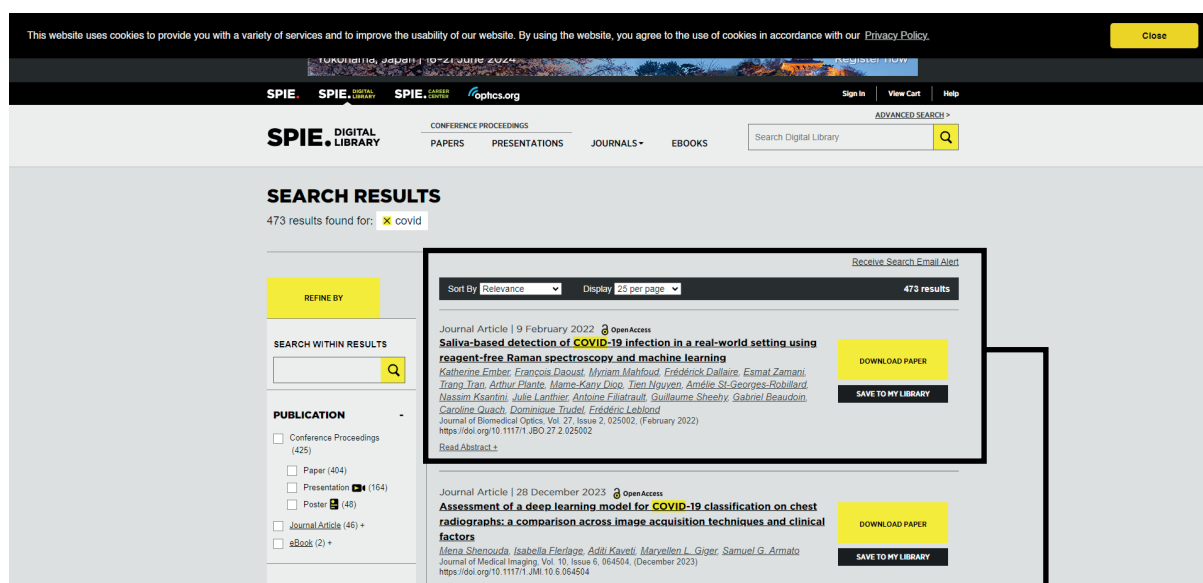
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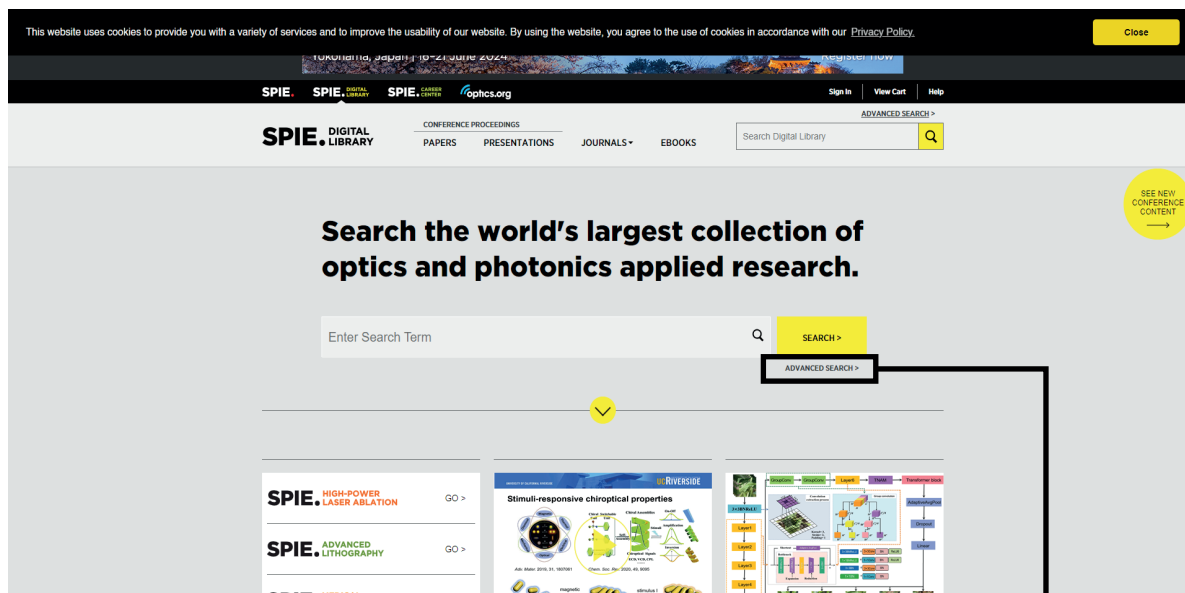


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Abstract
Significance: The primary method of COVID-19 detection is reverse transcription polymerase chain reaction (RT-PCR) testing. PCR test sensitivity may decrease as more variants of concern arise and reagents may become less specific to the virus.
Aim: We aimed to develop a reagent-free way to detect COVID-19 in a real-world setting with minimal constraints on sample acquisition. The machine learning (ML) models involved could be frequently updated to include spectral information about variants without needing to develop new reagents.

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Development of virtual reality walking collision detection test on head-mounted display

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Alex Hwang, Eli Peil, and Jae-Hyun Jung | <https://doi.org/10.1117/12.2647141>

Schepens Eye Research Institute of Mass. Eye and Ear, Department of Ophthalmology, Harvard Medical School

Abstract

Detecting and avoiding collision hazards during walking is critical for safe mobility for non-visual patients and neurodivergent brain injury. To determine the effectiveness of clinical interventions, a realistic virtual reality (VR) walking test on HMD is developed. - Overcome limitations of traditional obstacle courses: No safety concerns of physical collision, controlled moving pedestrians, and - Evaluate real walking behaviors including collision avoidance. Practically walking and avoiding collisions with VR pedestrians on - Modeling of Pedestrian Collision?

Modeling of Pedestrian Collision?

- Walking strategy at constant speed
- Collision pedestrians step at the initial bearing angles (0, 90) until the collision
- Range to detect Pedestrian Collision
- The pedestrian may detect the impending collision
- Overlapped Pedestrian Collision
- When a patient is not at normal visual field of other pedestrian (and/or)
- Both the patient and the pedestrian cannot detect each other and collision
- Social responsibility to avoid that collision to an end patient
- 10 non-colliding pedestrians
- One colliding pedestrian (300°, 40°)

VR Walking Collision Detection Test

Only relatively small space (e.g., 10m corridor) is required

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