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التاريخ: 2023/9/16

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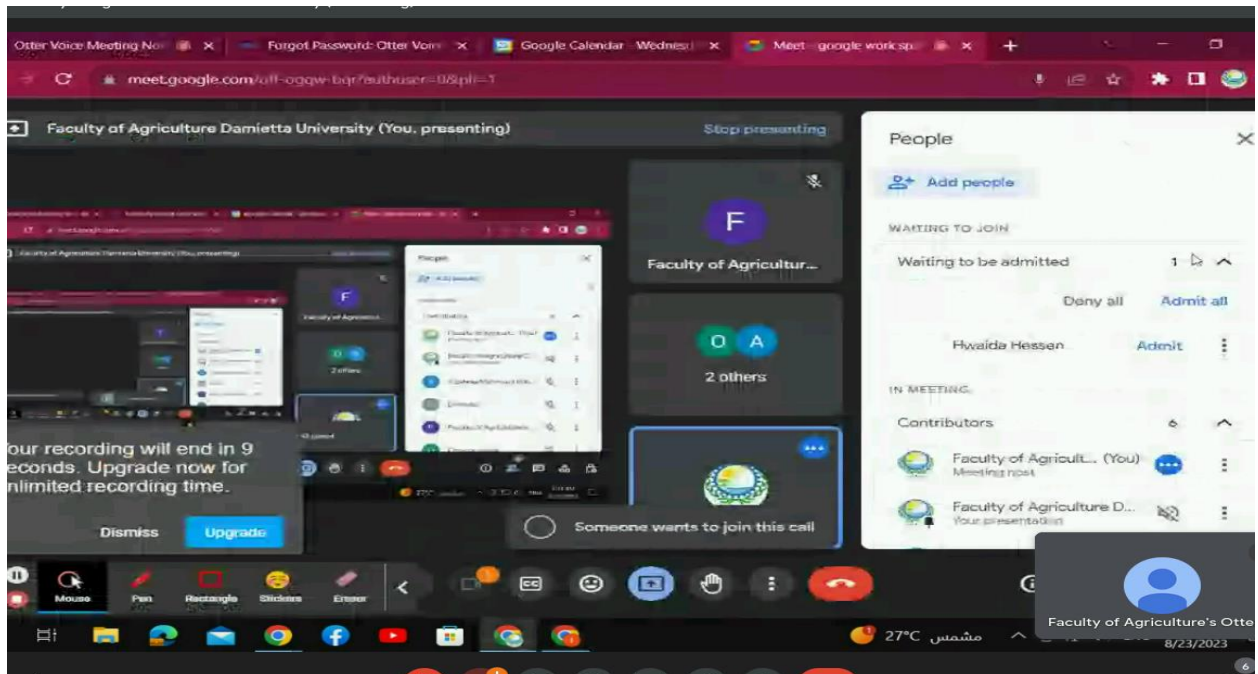
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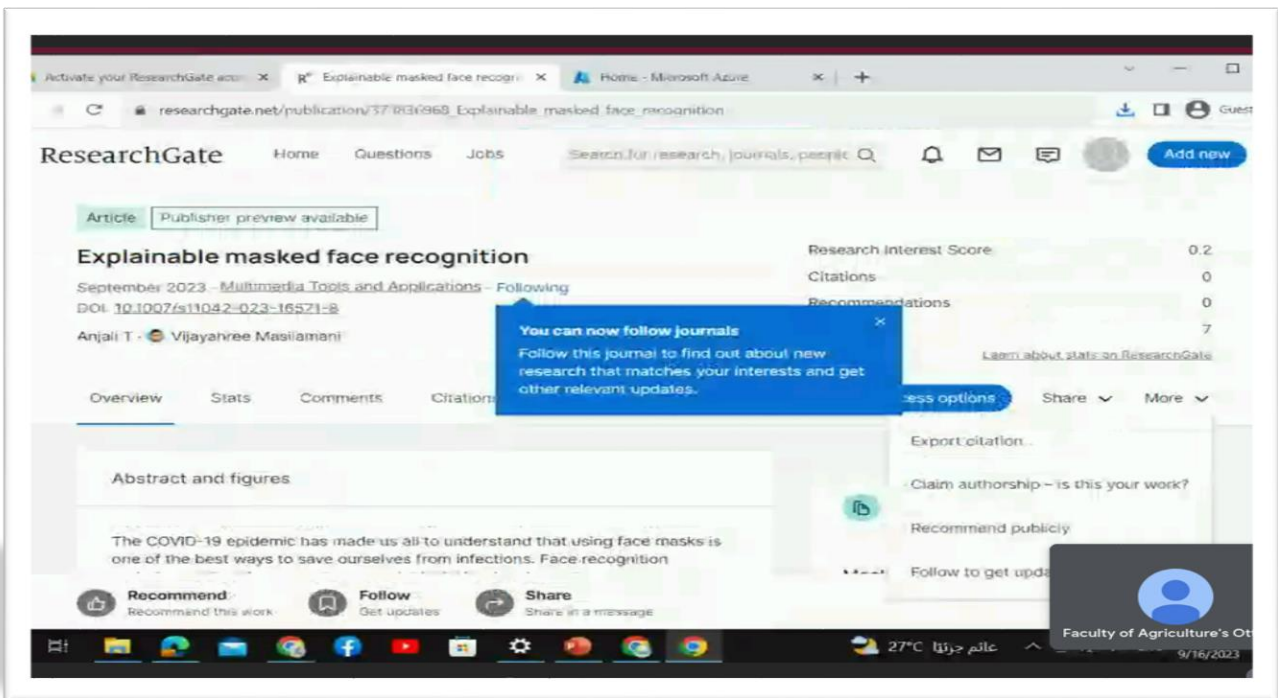
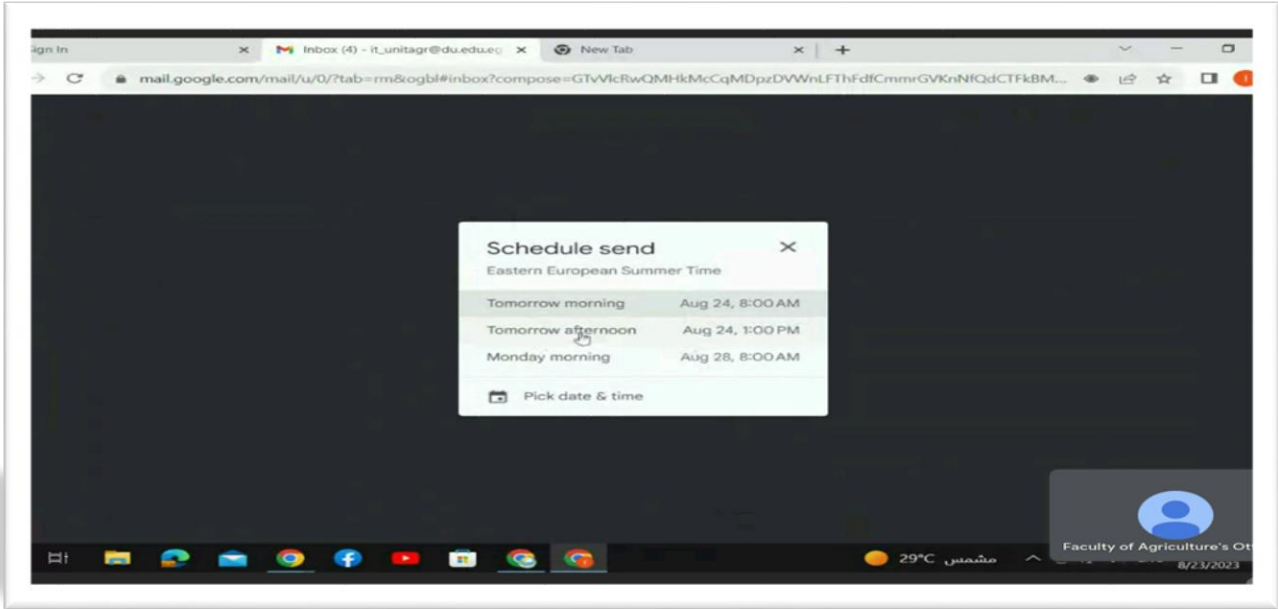
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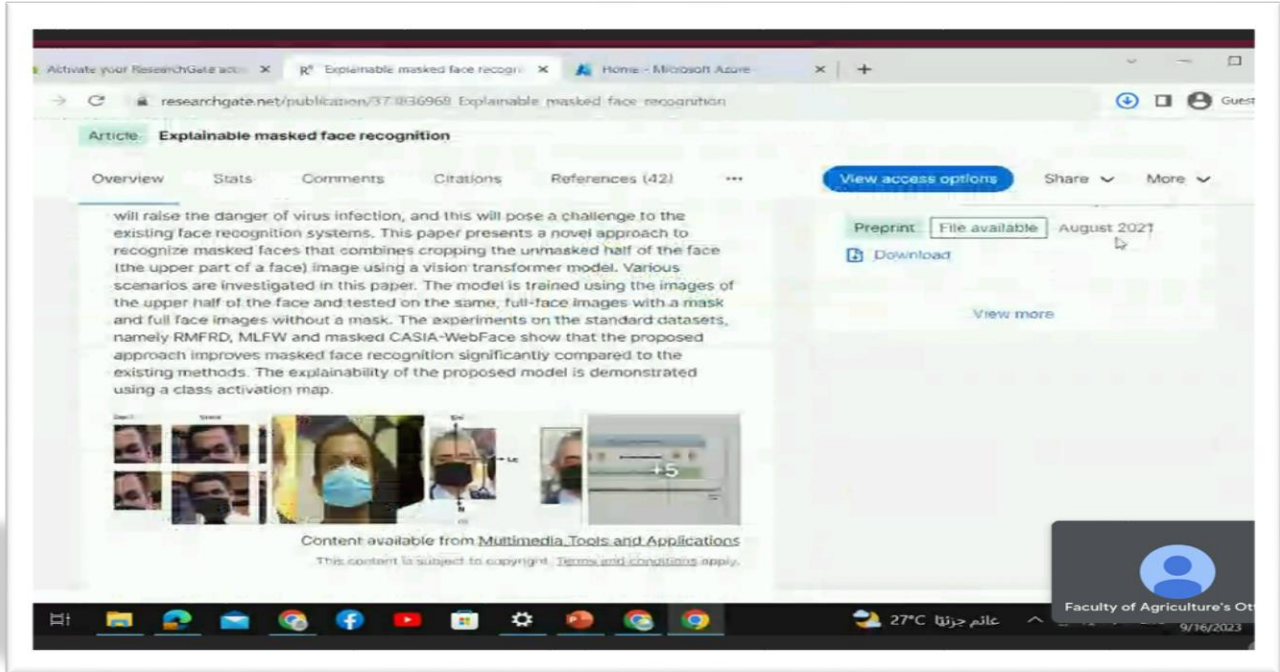
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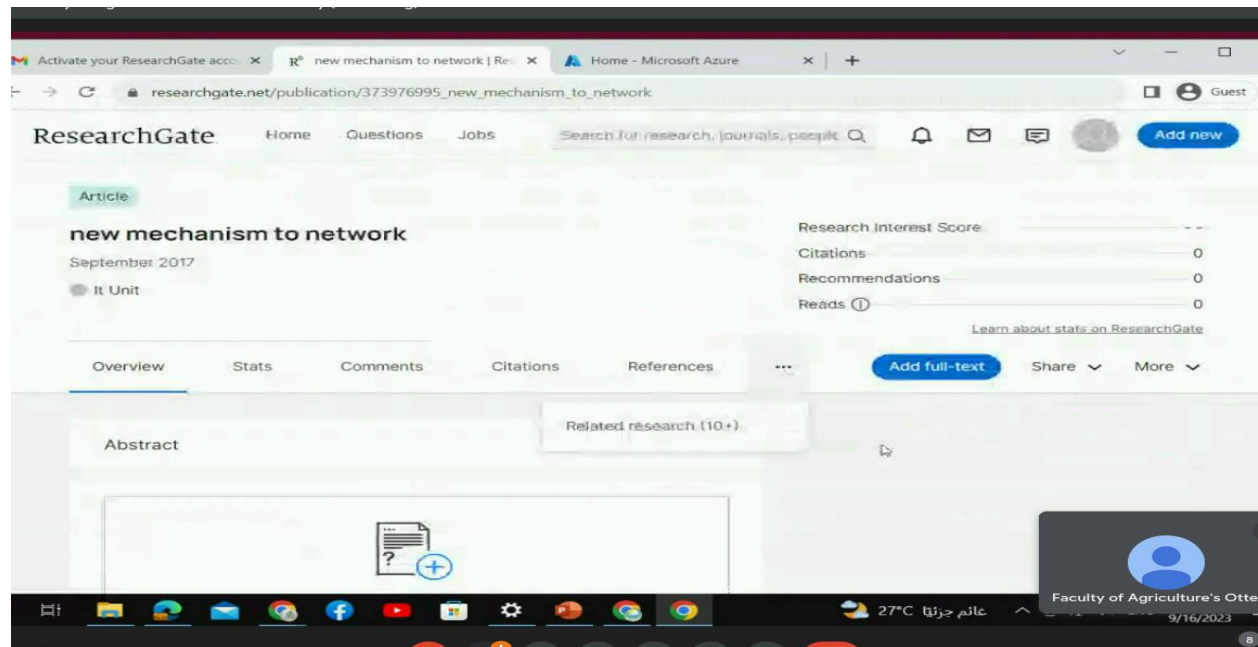
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will raise the danger of virus infection, and this will pose a challenge to the existing face recognition systems. This paper presents a novel approach to recognize masked faces that combines cropping the unmasked half of the face (the upper part of a face) image using a vision transformer model. Various scenarios are investigated in this paper. The model is trained using the images of the upper half of the face and tested on the same, full-face images with a mask and full face images without a mask. The experiments on the standard datasets, namely RMFRD, MLFW and masked CASIA-WebFace show that the proposed approach improves masked face recognition significantly compared to the existing methods. The explainability of the proposed model is demonstrated using a class activation map.

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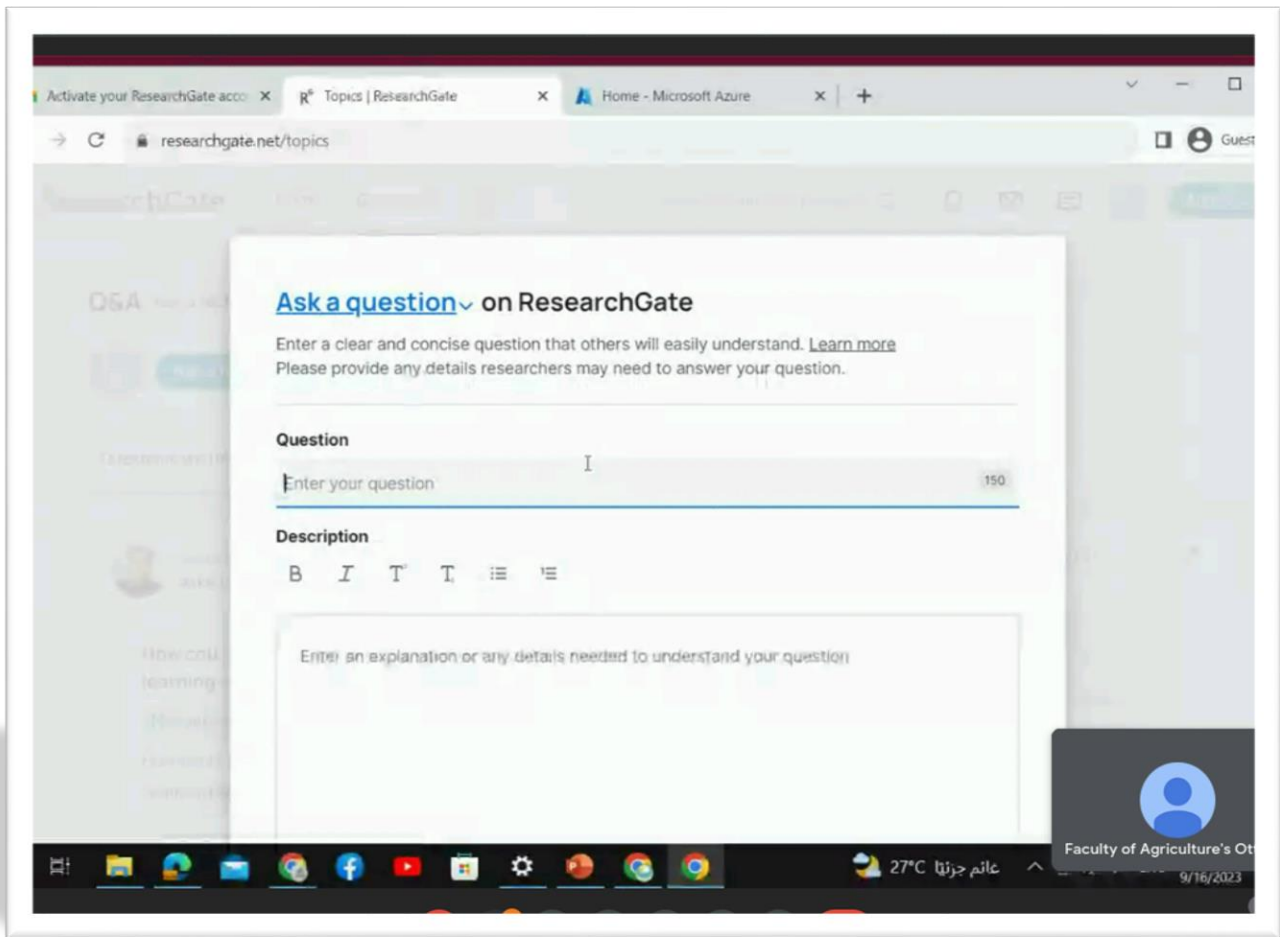
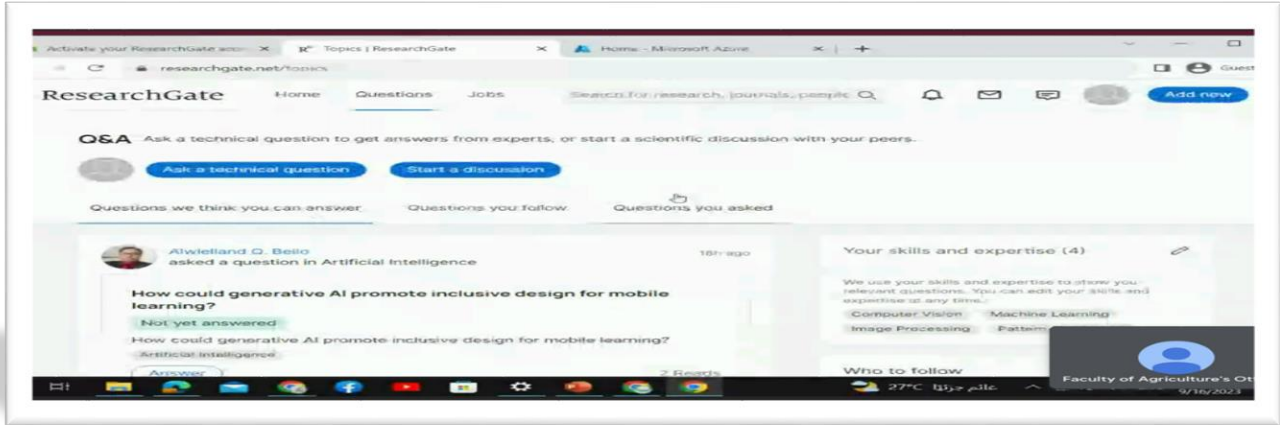
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