



Trishia El Chemaly

Ph.D. Student in Bioengineering, admitted Autumn 2019

Publications

PUBLICATIONS

- **From microscope to head-mounted display: integrating hand tracking into microsurgical augmented reality.** *International journal of computer assisted radiology and surgery*
El Chemaly, T., Athayde Neves, C., Fu, F., Hargreaves, B., Blevins, N. H.
2024
- **Leveraging the Apple Ecosystem: Easy Viewing and Sharing of Three-dimensional Perforator Visualizations via iPad/iPhone-based Augmented Reality.** *Plastic and reconstructive surgery. Global open*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024; 12 (7): e5940
- **The Reconstructive Metaverse - Collaboration in Real-Time Shared Mixed Reality Environments for Microsurgical Reconstruction.** *Surgical innovation*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024: 15533506241262946
- **Deep Learning Method for Rapid Simultaneous Multistruature Temporal Bone Segmentation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Neves, C. A., Chemaly, T. E., Fu, F., Blevins, N. H.
2024
- **Increasing DIEA Perforator Detail in 3D Photorealistic Volume Rendering Visualizations with Skin-masking and Cinematic Anatomy.** *Plastic and reconstructive surgery*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024
- **Interactive Shape Sonification for Tumor Localization in Breast Cancer Surgery**
Schuetz, L., El Chemaly, T., Weber, E., Doan, A., Tsai, J., Leuze, C., Daniel, B., Navab, N., ACM
ASSOC COMPUTING MACHINERY.2024
- **Automated Radiomic Analysis of Vestibular Schwannomas and Inner Ears Using Contrast-Enhanced T1-Weighted and T2-Weighted Magnetic Resonance Imaging Sequences and Artificial Intelligence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Neves, C. A., Liu, G. S., El Chemaly, T., Bernstein, I. A., Fu, F., Blevins, N. H.
2023
- **Stereoscopic calibration for augmented reality visualization in microscopic surgery.** *International journal of computer assisted radiology and surgery*
El Chemaly, T., Athayde Neves, C., Leuze, C., Hargreaves, B., H Blevins, N.
2023
- **The user experience design of a novel microscope within SurgiSim, a virtual reality surgical simulator.** *International journal of computer assisted radiology and surgery*

de Lotbiniere-Bassett, M., Volpato Batista, A., Lai, C., El Chemaly, T., Dort, J., Blevins, N., Lui, J.
2022