



Multi-User Interactive Cardiovascular Surgical Planning in Mobile AR



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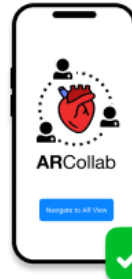
Fawwaz
Shaw

Polo
Chau

ARCOLLAB, a *first-of-its-kind* collaborative iOS surgical planning tool powered by **multi-user mobile AR**



No more 3D-printed heart models!



Quick, Convenient, Easy-to-use!
Runs on iPhones and iPads!

Built with
SwiftUI
ARKit 6
RealityKit

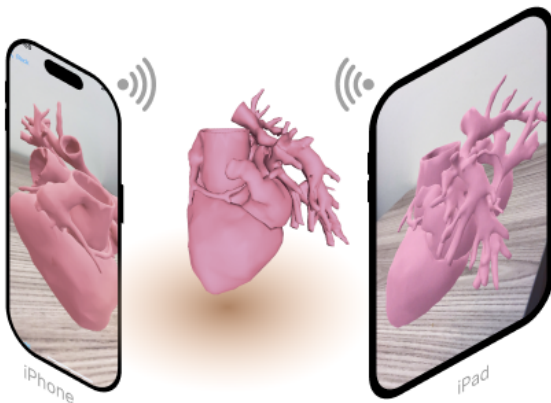
Check it out!



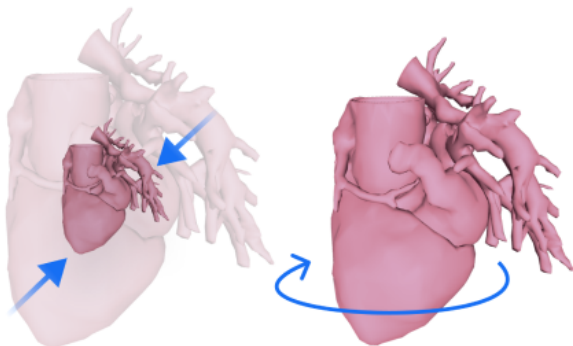
<https://bit.ly/arcollab>

Key Features

- A** Natively built for **iOS** for easy distribution
- B** Multiple users **collaboratively interact** with patient's **3D heart** in **shared AR session**



- C** **Easy-to-use** gestures for **real-time synchronization** of model across all devices



How does it work?

- 1** Bring **iOS devices** together to scan surroundings to detect **feature points** and **align AR environments**



- 2** Load **3D heart model** from iOS file browser (e.g., **HIPAA-compliant OneDrive**)



- 3** **Interact** with heart model using easy and intuitive **finger gestures**:

