
Showcasing ElectroDermis

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ABSTRACT

In this video, we showcased "ElectroDermis" [1], a fabrication approach that simplifies the creation of highly-functional and stretchable wearable electronics that are conformal and fully untethered by discretizing rigid circuit boards into individual components. These individual components are wired together using stretchable electrical wiring and assembled on a spandex blend fabric, to provide high functionality in a robust form-factor that is reusable. We describe a series of example applications that illustrate the feasibility and utility of our system.

CCS CONCEPTS

• **Human-centered computing** → *Ubiquitous and mobile computing systems and tools.*

REFERENCES

- [1] Eric Markvicka, Guanyun Wang, Yi-Chin Lee, Gierad Laput, Majidi Carmel, and Lining Yao. 2019. ElectroDermis: Fully Untethered, Stretchable, and Highly-Customizable Electronic Bandages. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems*. ACM, 632.

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