

Introduction

Augmented Reality and Virtual Reality New Interaction Techniques



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MoSIG M2

2022 — 2023

Information

Schedule: <https://edt.grenoble-inp.fr/>

MoSIG: <https://mosig.imag.fr/>

Class Notes: <https://coultrixc.gricad-pages.univ-grenoble-alpes.fr/ar-vr-new-interaction-techniques/>

If you could not find the info above:
celine.coultrix@univ-grenoble-alpes.fr

Schedule

Course

Tangible Interaction

Céline Coutrix

Augmented Reality

Laurence Nigay

Tangible Interaction

Céline Coutrix

Persuasive technologies

Yann Laurillau

AR & AI

Quentin Roy

Céline Coutrix

Prototyping with arduino

Practice

Project




Project

Planning, Guidelines

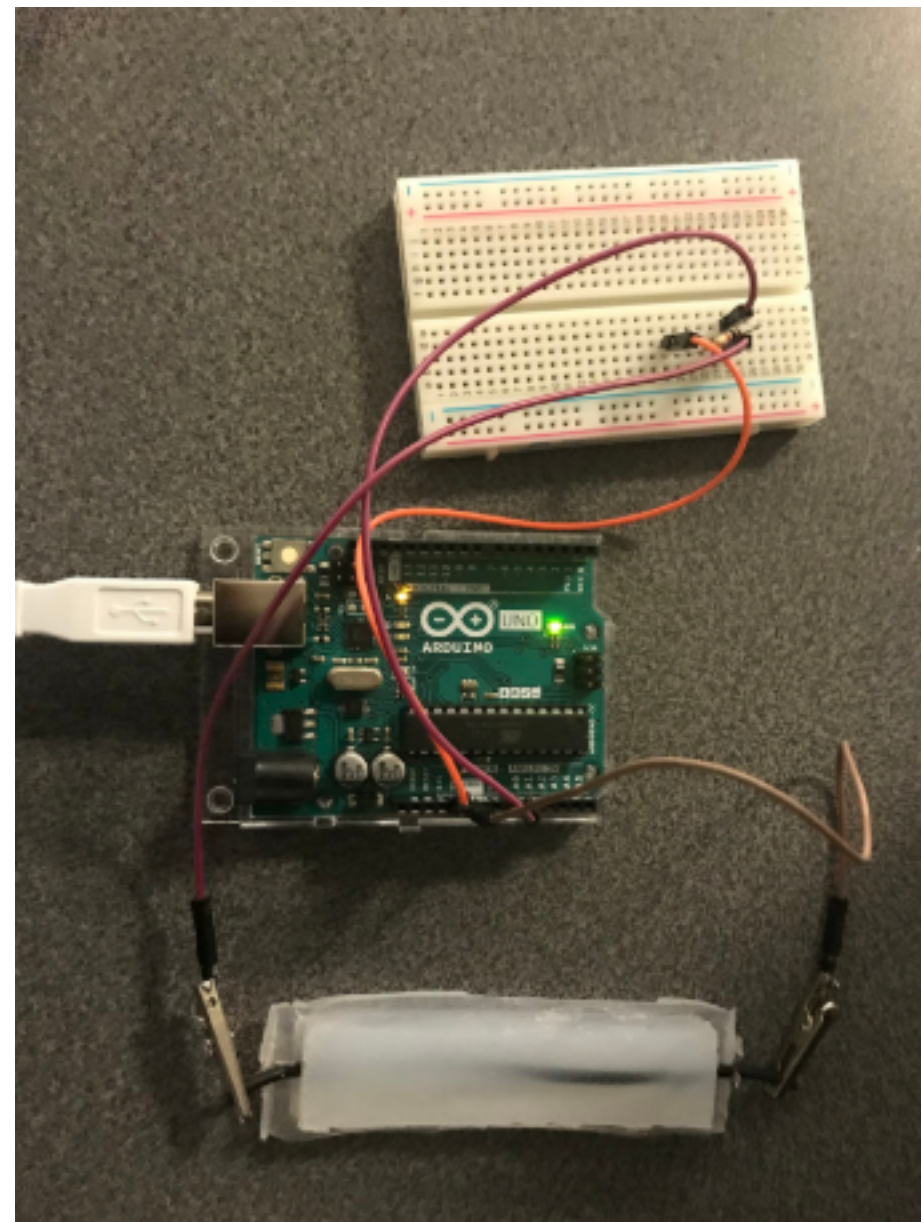
1. **Form groups of 2:** **next week** (tell/eMail Céline)
2. **Find a research question:** discuss/eMail with Céline
3. **Review** the state-of-the-art
4. **Propose** an interaction technique
5. **Propose a experimental plan**
6. Prototype
7. **Conduct** the **user study**
8. **Analyze** your results

Project

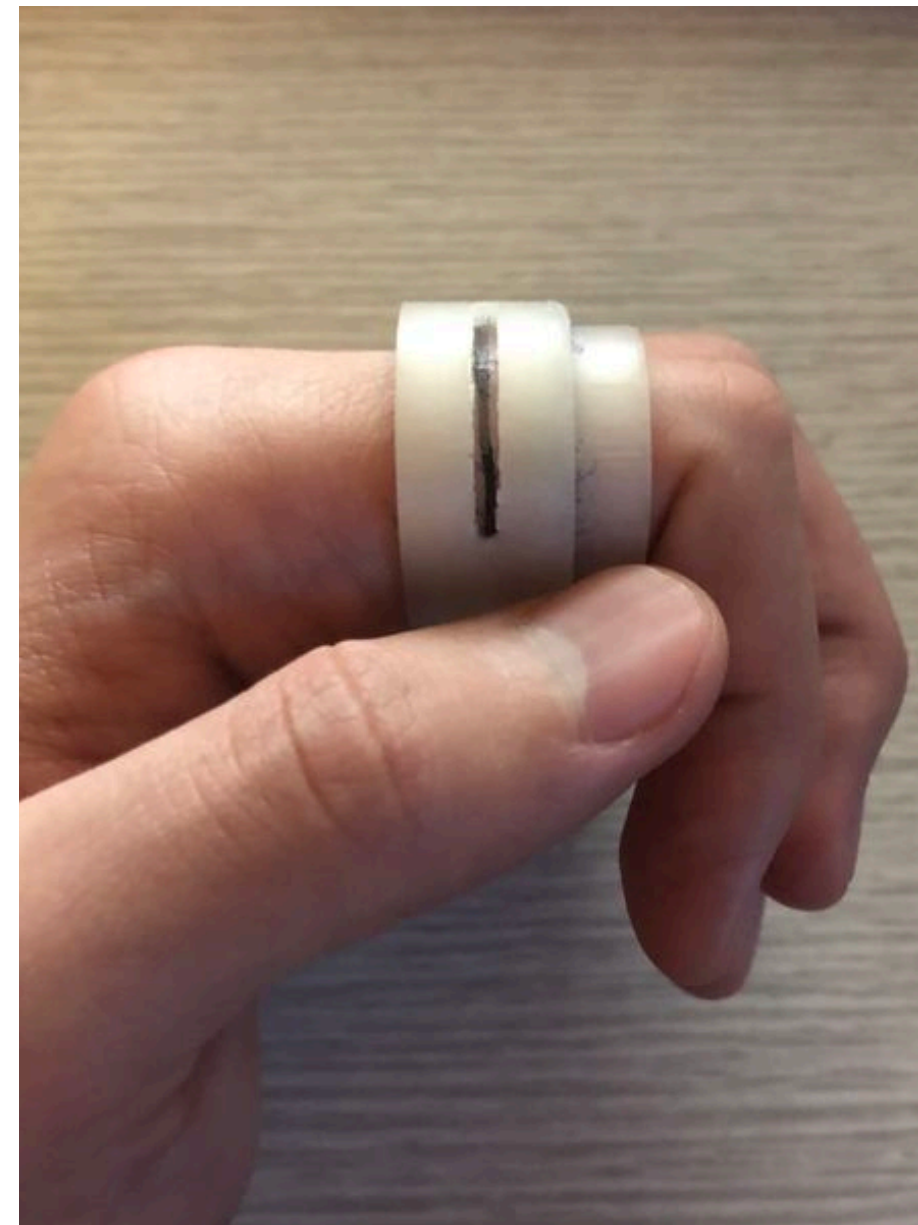
Planning, Guidelines

1. **Form groups of 2:** **next week** (tell/eMail Céline)
2. **Find a research question:** discuss/eMail with Céline
3. **Review** the state-of-the-art
4. **Propose** an interaction technique
5. **Propose a experimental plan**  **Presentation #0**
6. Prototype
7. **Conduct the user study**  **Presentation #1**
8. **Analyze** your results  **Defense**

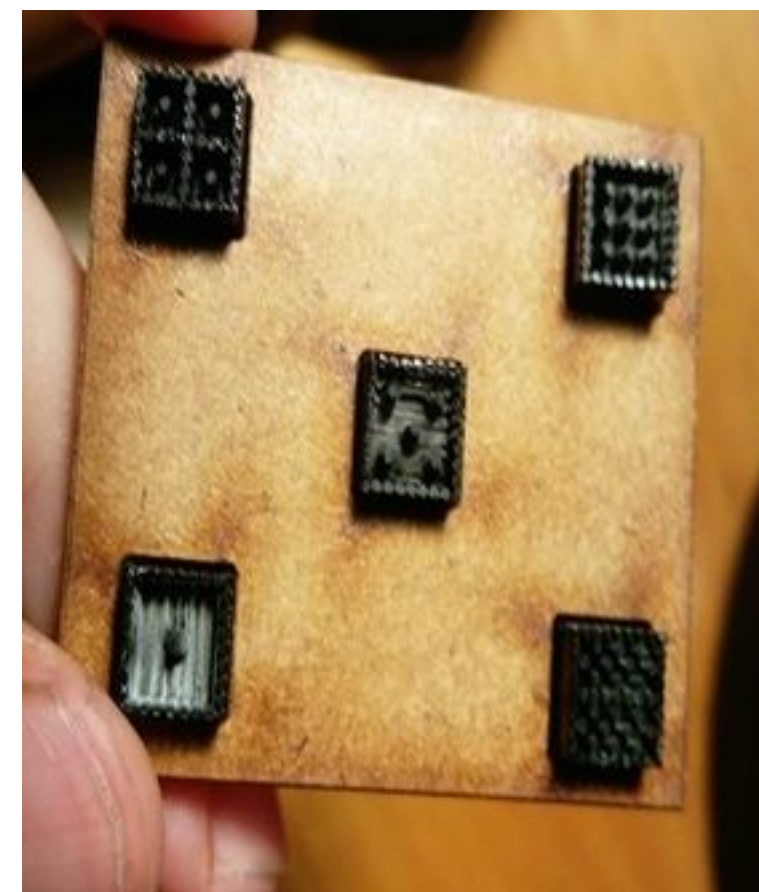
Project Examples



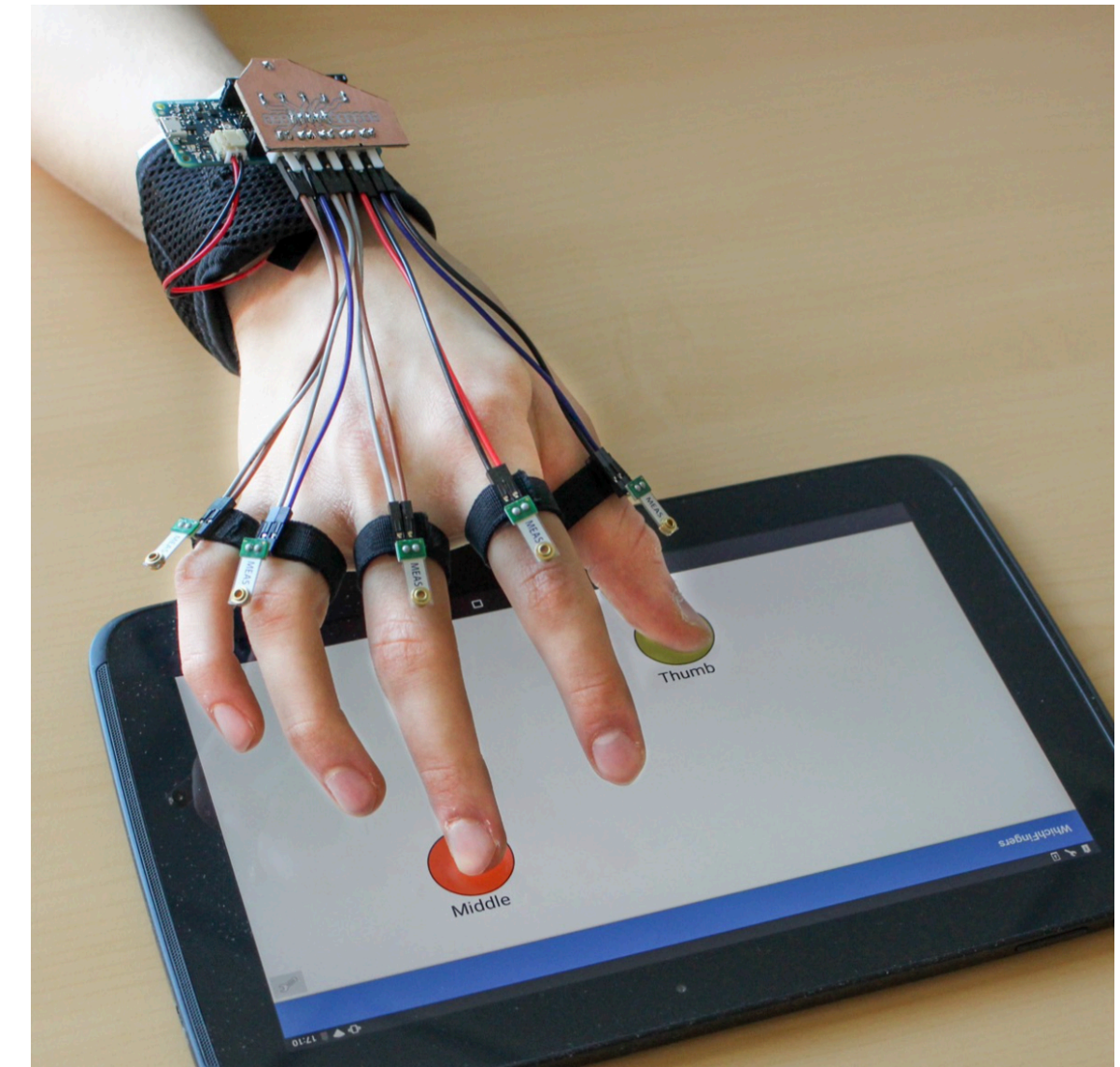
Tangible Interaction for animation of deformable characters (2019)



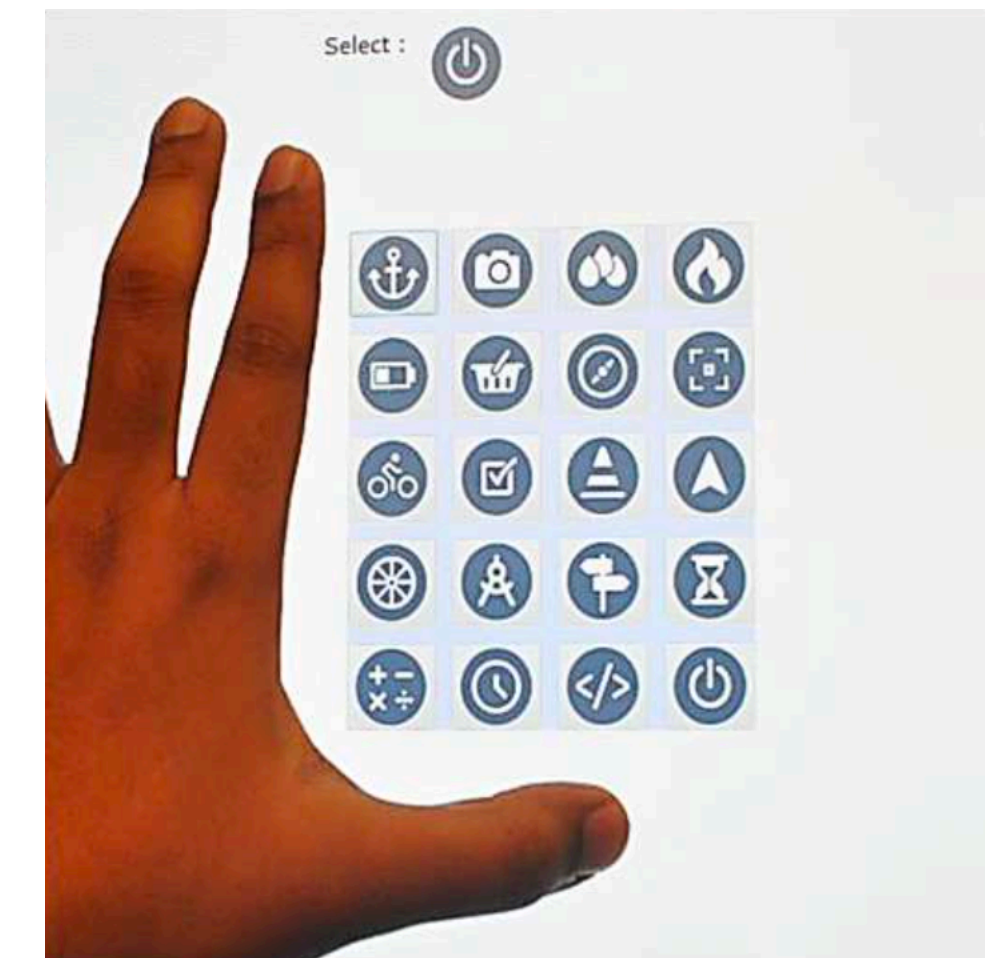
Smart-ring control for Smart-home ambience (2019)



Resolution of touch in shape changing display (2016)



Multitouch with finger identification



Multitouch (chord) menus

Project: If physical prototyping

FabLab: <https://fabmastic.imag.fr/>

Borrowing from the FabLab:

<https://matos.univ-grenoble-alpes.fr/#/>

Unmount your prototype before giving it back to the FabLab