

SNail: Using Strains From Fingernail As Always-Available Input

1st Author Name

Affiliation
City, Country
e-mail address

2nd Author Name

Affiliation
City, Country
e-mail address

3rd Author Name

Affiliation
City, Country
e-mail address

ABSTRACT

SNail is a device(?) that allows for any surface gestural input. Human fingernails contour and bend when force is applied. Therefore we can use in order to determine the gesture performed.

Author Keywords

Natural User Interface (NUI); Wearable electronics; fingernail; Strain gauges;

ACM Classification Keywords

H.5.m. Information Interfaces and Presentation (e.g. HCI): Input devices and strategies (e.g., mouse, touchscreen)

INTRODUCTION

RELATED WORK

HARDWARE DESIGN SPACE

Sensing touch

Sensing movement

Sensing force level

EXPERIMENT DESIGN

PROTOTYPE

Hardware

Software

USER STUDY ONE

Participants

Apparatus

Procedure

Design

Results

USER STUDY TWO

Participants

Apparatus

Procedure

Design

Results

INTERACTION DESIGN SPACE

DISCUSSION AND FUTURE WORK

CONCLUSION

REFERENCES

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