

修士論文テーマ申請書 Application Form for Master's Thesis Theme

学籍番号 Student ID Number

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氏名 Student Name

神田 美智

リアルプロジェクト名 Name of the Real Projects

Geist

修士論文テーマ名(日本語) Theme of the Master's Thesis(Japanese)

修士論文テーマ名(英語) Theme of the Master's Thesis(English)

Nature-mediated Interactions for Better Human Bonding

論文カテゴリ(1 デザイン、2 サイエンス/エンジニアリング、3 ソーシャルサイエンス、4 アクションリサーチ)
Category of Thesis (1 Design, 2 Science/Engineering, 3 Social Science, or 4 Action Research)

2. Science/Engineering

テーマの概要(日本語もしくは英語) Outline of Theme of the Master's Thesis(Japanese or English)

The objective of this research is to propose an alternative communication medium for building genuine human connections by creating a hybrid solution using natural sensing resources of plants and existing technologies.

While there have been series of research that attempts at re-evaluating the human-nature relationship or examines the sensing potential of plants intended for a form of human expression, little attention has been offered to using nature as an interaction medium to build better human-human connection.

In addition, collective disruption on our social lives due to COVID-19 has made us adopt predominantly digital means of communication that requires us to be glued to screens to stay connected. What this implies is that we have to make trade-offs between fulfilling our innate need for human contact and maintaining our well-being.

By taking these contexts into account, I would like to propose a novel human-human interaction using plants as middleware, which can help our society build a better understanding with each other across physical boundaries and socio-cultural values.

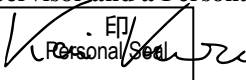
The expected outcome will be as follows:

- 1) Build an interactive system that translates bio signals of plants into electronic computer-readable signals
- 2) Design a remote communication system that can interpret & transmit affective feedback
- 3) Introduce insights on the effectiveness of plants as communication medium

Keyword: Human-nature interaction, biosensing, sustainable HCI

指導教員承認(署名および印)

Printed Name of the Main Research Supervisor and a Personal Seal of Approval



<注意事項>

- 指導教員承認の印鑑(もしくはサイン)のないものは受け付けません。
- 副指導教員については後日 KMD web サイトで発表いたします。

<Notes>

- Application form will be accepted only when students have obtained the approval from their Main Research Supervisor as well as his/her personal seal or signature.
- Sub-Research Supervisor will be announced on KMD website.