

IoT が拓く未来
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タッチ IoT：触れるインターネット実現のための肌感覚送受信機の開発

§ 1. 研究成果の概要

In FY2020, as an initial year of the project, we conducted preparation of the research environment and facility, with focus on the proposal of the soft tactile sensing devices in various scenario and related design/data acquisition process. First, we tackled the design principle for a wide range of soft tactile sensing systems based on vision technique. We showcased the sensing ability on the long, barrel shaped soft sensor based on two method: analytical method and data-based method. Second, we preliminarily built a simulator platform for operation of the sensors in virtual space. The obtained method can be utilized for training the sensing system without actual data acquisition. The preparation in FY2020 is the crucial basis for conducting research plan in FY2021.

【代表的な原著論文情報】

- 1) Nhan Nguyen and Van Anh Ho, “Proposal of FEM force field for Reissner–Mindlin Flat Shell Element”, SOFA Framework source code, <https://github.com/sofa-framework/sofa/commit/22973662980d39daac463a6412d9a3d9f11ea27d>