

Advanced tactile sensor system

Evaluable under the pushing force changing situation

Overview

This IP is about a sensor system for measuring tactile sensation considering tactile movement. The relationship between the tactile sensation for samples and the sensor output of the tactile sensor system controlled with various pushing forces was investigated. As a result, it was found that the developed tactile sensor system considering pushing force is available to evaluate touch feeling.

1. The sensor system which can control its height to get a desired initial pushing force and the pushing force during sensor scanning was developed.
2. The sensor system describes “Rough-Smooth” tactile sensations when pressing force is decreased gradually.
3. The sensor system describes “Hard-Soft” tactile sensations when pressing force is increased gradually.

Product Application

- Tactile sensor
- New approach for designing products

IP Data

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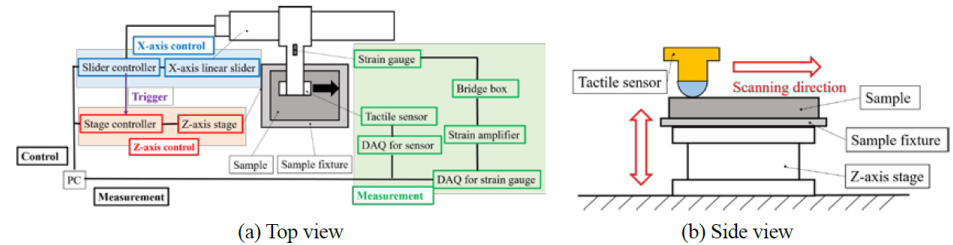
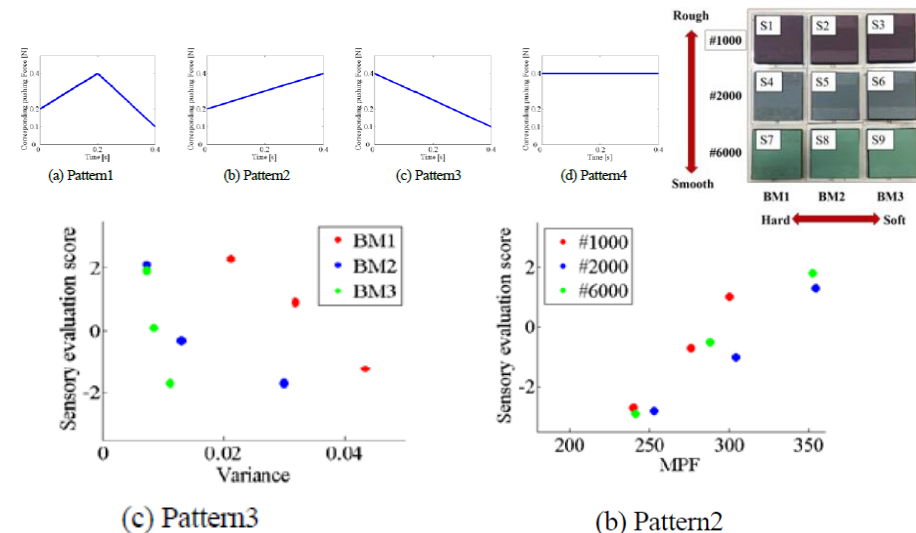


Fig.1 Schematic drawing of sensor system

Comparison between the sensor outputs and tactile feelings



“Rough-Smooth” could be described

“Hard-Soft” could be described

Related Works

[1] [No.20-8] IIP2020 情報・知能・精密機器部門（IIP 部門）講演会 講演論文集〔2020.3.26－27，東京〕

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