

既発表論文

- [1] Vision-based Tactile Sensor Using Transparent Elastic Fingertip for Dexterous Handling, G. Obinata, N. Moriyama, *36th International Symposium on Robotics*, Tokyo, Japan (2005).
- [2] Vision-Based Tactile Sensor Using Transparent Elastic Fingertip for Dexterous Handling, G. Obinata, D. Ashish, N. Watanabe, N. Moriyama, *Mobile Robots: Perception & Navigation*, InTech., pp.137-148 (2007).
- [3] Grip Force Control Using Vision-Based Tactile sensor for Dexterous Handling, N. Watanabe, G. Obinata, *Proceeding of the European Robotics Symposium*, 44, pp/113-122 (2008).
- [4] Robust Slippage Degree Estimation Based on Reference Update of Vision-Based Tactile Sensor, Y. Ito, Y. Kim and G. Obinata, *IEEE Sensors Journal*, 11-9, pp.2037-2047 (2011).
- [5] Contact State Estimation by Vision-Based Tactile Sensors for Dexterous Manipulation with Robot Hands Based on Shape-Sensing, Y. Ito, Y. Kim, G. Obinata, *International Journal of Advanced Robotic Systems*, 8-4, pp.734-744 (2012).
- [6] Vision-Based Tactile Sensing and Shape Estimation Using a Fluid-Type Touchpad, Y. Ito, Y. Kim, C. Nagai, G. Obinata, *IEEE Trans Automation Science and Engineering*, 7-2, pp.259-274 (2012).
- [7] Contact Region Estimation Based on a Vision-Based Tactile Sensor Using a Deformable Touchpad, Y. Ito, Y. Kim, G. Obinata, *Sensors*, 14, pp.5805-5822 (2014).
- [8] Acquisition of Contact Force and Slippage Using a Vision-Based Tactile Sensor with a Fluid-Type Touchpad for the Dexterous Handling of Robots, Y. Ito, Y. Kim, G. Obinata, *Advances in Robotics and Automation*, 3-1, pp.1-9 (2014).
- [9] 光学式触覚センサの小型化・モジュール化, 大塚剛, 川西俊夫, 大日方五郎, 日本ロボット学会学術講演会予稿集, RSJ2017AC1F1-03 (2017).
- [10] Design and Characterization of a Plug-in Device for Tactile Sensing, G. Otsuka, G. Obinata, et.al, *ICCINCO 2018, Porto, Vol.1*, pp.488-493 (2018).
- [11] 触覚センシング用プラグインデバイスの設計と特性評価, 日本ロボット学会学術講演会予稿集, RSJ2018AC2K2-02 (2018).
- [12] On Agreement between Tactile Sensing and Rendering, J. Nakanishi, Shoto Yamamura and G.Obinata, *IEEE Sensors 2019, Montreal, IEEE Xplore Jan 2020* DOI: 10.1109/SENSORS43011.2019.8956720 .

上記論文中[2], [5], [7], [8]はインターネットから無料でダウンロードできるようになっています。

特許

- [13] 光学式触覚センサ、センシング方法、センシングシステム、物体操作力制御方法、物体操作力制御装置、物体把持力制御装置、ロボットハンド, 大日方ほか, 特許第 4621827 番 (2005/9/22).
- [14] Control of Object Operating Force, Object Gripping Force and Robot Hands, US patent (米国特許) US7707001B2, G. Obinata et.al (2010/4/27).
- [15] 形状計測装置、及び形状計測方法、伊藤、大日方ほか、特許第 5660531 号 (2012/3/1).
- [16] 6 軸計測装置、及び 6 軸計測方法、大日方ほか、特許第 5825604 号 (2013/4/4).

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