

# Stanford

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## Ryo Eguchi

Postdoctoral Scholar, Mechanical Engineering

### Bio

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#### STANFORD ADVISORS

- Allison Okamura, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Human Leg Tracking by Fusion of Laser Range and Insole Force Sensing With Gaussian Mixture Model-Based Occlusion Compensation** *IEEE SENSORS JOURNAL*  
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- **Shift-Adaptive Estimation of Joint Angle Using Instrumented Brace With Two Stretch Sensors Based on Gaussian Mixture Models (vol 5, pg 5881, 2020)** *IEEE ROBOTICS AND AUTOMATION LETTERS*  
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- **Shift-Adaptive Estimation of Joint Angle Using Instrumented Brace With Two Stretch Sensors Based on Gaussian Mixture Models** *IEEE ROBOTICS AND AUTOMATION LETTERS*  
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- **Gait analysis of patients with distal radius fracture by using a novel laser Timed Up-and-Go system** *GAIT & POSTURE*  
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Iijima, H., Yorozu, A., Suzuki, Y., Eguchi, R., Aoyama, T., Takahashi, M.

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- **Stair climbing ability in patients with early knee osteoarthritis: Defining the clinical hallmarks of early disease** *GAIT & POSTURE*  
Iijima, H., Eguchi, R., Shimoura, K., Aoyama, T., Takahashi, M.  
2019; 72: 148-153
- **Insole-Based Estimation of Vertical Ground Reaction Force Using One-Step Learning With Probabilistic Regression and Data Augmentation** *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*  
Eguchi, R., Takahashi, M.  
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- **Effects of interaction between varus thrust and ambulatory physical activity on knee pain in individuals with knee osteoarthritis: an exploratory study with 12-month follow-up** *CLINICAL RHEUMATOLOGY*  
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