



The 4th International Jc-IFTOMM Symposium
(with The 27th Jc-IFTOMM Symposium on
Theory of Machines and Mechanisms)



Date: November 13 (Saturday), 2021 (from 13:00 till 18:00)

Venue: Online symposium on ZOOM

Program:

13:00 Opening address by Nobuyuki Iwatsuki (Tokyo Tech.), President of Jc-IFTOMM

Session 1 Japanese session

(13:05 - 14:05)

Chair: Kenjiro Takemura (Keio Univ.)

13:05 # Design for Teeth Surface of Cylindrical Variable Ratio Gear

*T. Suwa, D. Matsuura, T. Kobayashi (Tokyo Tech.)

13:25 # Driving Performance Analysis of Vehicle Equipped with Active Omni wheel

*S. Long, T. Terakawa, M. Komori, K. Matsuda (Kyoto Univ.)

13:45 # Clarification of Tooth Wear Mechanism Focusing on Contact Surface Pressure and Sliding Velocity

*T. Fukuoka, D. Matsuura, T. Kobayashi (Tokyo Tech.)

14:05 - 14:15 Break

Special Lecture

(14:15 - 15:15)

Chair: Nobuyuki Iwatsuki (Tokyo Tech.)

14:15 # Introduction to Human Digital-Twin and Data Science

Yoshihiko Nakamura (Univ. Tokyo)

15:15 - 15:25 Break

Session 2 International Session

(15:25 - 16:05)

Chair: Masaharu Komori (Kyoto Univ.)

15:25 Kinematic Analysis of Spatial Closed-Loop Link Mechanisms Based on Spatial 3-link Prime Structures

*T. Aruga, N. Iwatsuki (Tokyo Tech.)

15:45 Performance Comparison of Electrostatic Film Motors with Different Surface Treatments to Reduce Friction

*G. Zhang (Univ. Tokyo), M. Osada (Univ. Tokyo, Honda R&D), S. Yoshimoto, A. Yamamoto (Univ. Tokyo)

16:05 - 16:10 Break

Advanced research seminar

(16:10 - 16:45)

Chair: Akio Yamamoto (Univ. Tokyo)

16:10 # State-of-the-art research on human interface

Satoshi Miura (Tokyo Tech.)

16:45 - 16:50 Break

Session 3 Japanese session
Chair: Ken Sasaki (Univ. Tokyo)

(16:50 - 17:50)

- 16:50 # A Lightweight Forearm Prosthesis using Ultrasonic Motors Aiming for Silent Motion
*S. Sakamoto, K. Takemura (Keio Univ.)
- 17:10 # Problems about Video Motion Capture Caused by the Difference Between 3D Reconstructed Skeleton Based on Image Dataset and Bio-Mechanical Skeleton
*N. Ooke, Y. Ikegami, K. Yamamoto, Y. Nakamura (Univ. Tokyo)
- 17:30 # Investigation of a Flexural-Shape Basket Catheter for Secure Electrode Contact with Atrial Inner Wall
*R. Shiroishi, N. Tomii, H. Seno, K. Nakagawa, M. Yamazaki, E. Kobayashi, I. Sakuma (Univ. Tokyo)
- 17:50 Young Investigator Fund, Best Paper Award Ceremony (17:50 - 18:00)
Chair: Akio Yamamoto (Univ. Tokyo)
- 17:55 Closing address by Masaharu Komori (Kyoto Univ.), Vice-president of Jc-IFTtoMM

*: Speaker

#: Oral presentation in Japanese

Registration fee:

Member of Jc-IFTtoMM	Free
Students	Free
Member of MO of IFTtoMM	5,000 JPY
Others	5,000 JPY

Registration page: <https://forms.gle/3mhYVvhD3Yj1G91a7>
(Registration deadline: 11 November, Thursday)