

Special Issue

2017 JSPE Technology Award

Lecture

- **Development of Precise Segmentation Technologies for X-ray CT Volume of Assembled Objects**
Hiromasa SUZUKI, Yutaka OHTAKE, Yukie NAGAI,
Jun HOTTA and Mitsuhiro MATSUKAWA118
- **Development of Cutting Tools for Ni-Based Superalloys Turning**
Kaname SUEHARA, Hiroshi TAMURA, Shojiro TOMA,
Yuuzoh FUKUNAGA and Shuho KOSEKI123
- **Development and Application of Elevator Renewal Survey System Utilizing Three Dimensional Measurement Data**
Yuta YAMAUCHI, Takahiro NAKANO, Takashi HIRANO,
Yoshiyasu SHIBUKI and Gábor ERDŐS128

Episode

- **Episode 1**/Hiromasa SUZUKI, Yutaka OHTAKE, Yukie NAGAI,
Jun HOTTA and Mitsuhiro MATSUKAWA132
- **Episode 2**/Kaname SUEHARA, Hiroshi TAMURA, Shojiro TOMA,
Yuuzoh FUKUNAGA and Shuho KOSEKI134
- **Episode 3**/Takahiro NAKANO136
- **My Experience in Precision Engineering**
Takeshi KISHINAMI144
- **Gravure & Interview**
Dept. of Precision Engineering, The University of Tokyo/Zodiac115
Mitsubishi Hitachi Tool Engineering, Ltd./Hitachi Metals, Ltd.
Hitachi, Ltd./Hitachi Building Systems Co., Ltd./Hitachi Mito Engineering Co., Ltd./Hungarian Academy of Sciences
- **Introduction to Precision Engineering**
Measuring Techniques and Their Applications in Grinding Process/Kazuhiro OHASHI138
- **Introduction of Laboratories**
Laboratory for Future Interdisciplinary Research of Science and Technology, Institute of Innovative Research, Tokyo Institute of Technology142

- JSPE Affiliate News 145
- International Conference Report 153
- Information 154, 155
- From the Lecture Committee告 2-1

Paper

- **Finish Machining of Hardened Steel Using the Oblique Cutting Method** ————— 156
—Effect of the Oblique Cutting Method on Interrupted Cutting—
Kazuhiko TANAKA and Mitsuo UCHIYAMA
- **Consideration of Minute Unevenness (1st report) Creation Method and Inspection of the Surface Function** ————— 161
—Boiling Accelerated Effect by Superheat of the Dimple Texture—
Shinji NAKADEGUCHI, Yoshihiko MATSUO, Takanori YAZAWA, Satoru MOMOKI, Reiko YAMADA, Kenji KURANARI
and Tatsuki OTUBO
- **Study on Evaluation of the Mechanical Property in TiCN Single-layer and Multi-layer Coatings by a Micro Slurry-jet Erosion (MSE) Method** ————— 167
—Variation of the Erosion Rates as a Function of Depth from the Surface—
Yoshiyasu NANJO, Kenichi OKAZAKI, Eisuke SENTOKU, Masanori TAO and Yoshiro IWAI
- **High Speed Computational Algorithm in Voxel Based Milling Process Simulation for Minute Time and Minute Space Resolution Analysis** ————— 175
Isamu NISHIDA, Ryuta SATO and Keiichi SHIRASE
- **Microscale Circulation Flow of Slurry in Polishing Pad Asperities** ————— 182
—Results of Flow Visualization of Slurry by Using Enlarged Pad Model—
Akira FUKUDA
- **Investigation of Wafer Behavior Based on Simulation of Double-Sided Lapping** ————— 188
Yohei HASHIMOTO, Tomoya SANO, Tatsuaki FURUMOTO and Akira HOSOKAWA
- **Accuracy Analysis for the Endpoint Position of N-DoF Manipulators with Uncertainty Using Polynomial Chaos Method** ————— 194
Hideaki TAKATANI, Nozomu ARAKI, Takao SATO and Yasuo KONISHI
- **Trial of Applying Unbalance Vibration Compensator to Axial Position of the Rotor with Active Magnetic Bearings** ————— 201
Daishi SAITO and Shinji WAKUI

※The journal papers listed above are published on J-STAGE (Japan Science and Technology Information Aggregator, Electronic).

<https://www.jstage.jst.go.jp/browse/jjspe/-char/en/>

This printed material does not include these papers.