

Special Issue

Precision Engineering Behind Underwater Robotics

Review

- Development and Social Implementation of Autonomous Underwater Vehicles

Hayato KONDO 279

Lecture

- Advanced Seabed Visualization Technologies Based on Reflections of Visible and Non-Visible Wavelength Lasers

Shojiro ISHIBASHI 283

- Underwater Inspection Control Technology for Floating Structures Using AUVs—Towards Fully Automated Inspection of Spar-Type Floating Offshore Wind Farms—

Sotaro TAKASHIMA, Naoki TAKATSUKI, Kazunori NAGANO,
Shogo KAWASHIMA, Satoru TAOKA, Kensuke KUDO, Yuji OYABU,

Hayato KONDO, Yuya NISHIDA and Tamaki URA 288

- Underwater Acoustic Communication to Connect the Oceans

Hiroyuki TAKEDA 293

- A Tidal-Current Disturbance Observer for a Differential-Thrust Underwater Robot for Seafloor

Yuya NISHIDA, Ryo MIYAKAWA and Kazuo ISHII 297

- Biomimetics Transforming the World of Underwater Drones—Caudal-Fin Propulsion of Tuna and Dolphins and Flapping-Wing Propulsion of Penguins—

Hiroto TANAKA 301

- My Experience in Precision Engineering

Yasuhiro TANI 312

- Gravure & Interview

JAMSTEC 275

Takeshi NAKATANI

Interview: Tomohiro KIIRE

- Introduction to Precision Engineering

Introduction of SiC Wafer Processing/Tomohisa KATO 306

- Introduction of Laboratories

Advanced Semiconductor Precision Machining Laboratory, Kyushu Institute of Technology 310

- Visit to Corporate Members

Beckhoff Automation 319

● JSPE Affiliate News 314

● JSPE Membership Guidance 321

● From the Lecture Committee 告 4-1

● Editor's Note 告 4-10

Paper

- **3D Annotation System with Intuitive and Flexible Drawing Operations Using 3D Gaussian Splatting** ————— 322
Haruya ISHIGAMI, Tomomi SATO, Kenji IWATA and Yutaka SATOH

- **Unsupervised Metric Learning for Image Analysis with Abstract and Complex Similarities** ————— 328
Shun OBIKANE, Haruna TAGAWA and Yoshimitsu AOKI

- **Pose Estimation Robust to Background Variation for Automated Alignment of Flat Cable to Receptacle** ————— 336
Jonghak LEE, Shinsuke NAKASHIMA, Hiroki MURAKAMI, Tetsushi NAKAI, Qi AN and Atsushi YAMASHITA

※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/>