Requests for Collaboration

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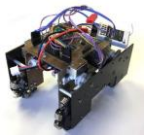
Research Interests

- Robot design and development
- Motion Analysis of robots
- Localization of robots

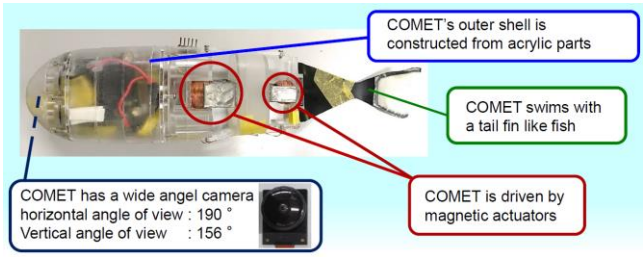
Creative Achievements in The Application of New and Existing Science and Technology



(1) Bridge Inspection Robot (BIREM): Moving robots which can freely move three-dimensionally complicated routes in the lower part of the steel bridge have been developed.

(2) Concrete inspection Robot (HORNET): Robots moved by the lift of rotors, which can do hammering test for the walls of social infrastructure and buildings, have been developed. The localization of the robot has been conducted by the sound of loudspeakers.

(3) Robotic fish (COMET et al.): There are robotic fish which have been developed for the purpose of knowing the ecosystem in ponds by entering the robot in ponds where people will not want to enter without preparations. It can track live gold fish.



Technology that I Want to Request for Collaboration

- Ultra-small controllers
- Small actuator with strong force or torque
- VHDL programming for moving robots

A List of 5 Key Publications

- Yogo Takada, Yuhei Tokura, Yodai Matsumura, Takahiro Tanaka and Tatsuki Kanada: Wall Inspection Robot with Maneuvering Assist Control System against Crosswind, Journal of Robotics and Mechatronics, Vol.30, No.3 (2018).
- Yogo Takada, Satoshi Ito and Naoto Imajo: Development of a Bridge Inspection Robot Capable of Traveling on Splicing Parts, Inventions 2017, 2(3), 22 (2017).
- Yuhei Tokura, Kohei Toba and Yogo Takada: Practical Applications of HORNET to Inspect Walls of Structures, Journal of Robotics and Mechatronics, Vol. 28, No. 3, 320-327 (2016).
- Takuya Aritani, Naoki Kawasaki and Yogo Takada: Development of Small Robotic Fish Equipped with FPGA and CMOS Camera for Tracking Live Fish, Proceedings of the 7th International Symposium on Aero Aqua Bio-Mechanisms, No. 21, PDF(USB memory) (2018).
- Yogo Takada, Takahiro Tanaka, Tatsuki Kanada and Yodai Matsumura: Investigation of Rotors Imitating Bird Wings for Reducing Electricity Consumption of Structure Inspection Robot HORNET, Proceedings of the 7th International Symposium on Aero Aqua Bio-Mechanisms, No. 22, PDF(USB memory) (2018).