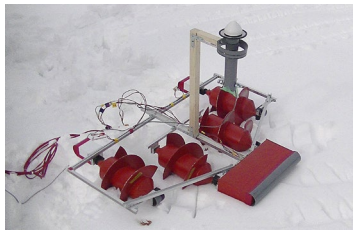
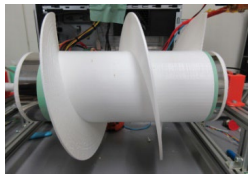
Application of embedded technology and control engineering

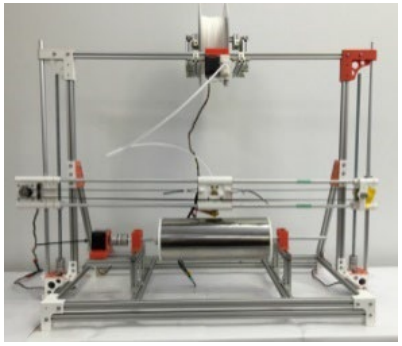
Assistant Professor Yuichi Ariga

■Snow robotics

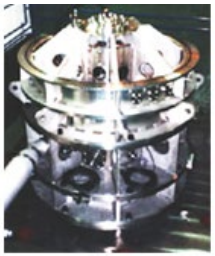


■Cylindrical type 3D printer





■ Others



Content:
We use embedded systems and control engineering to improve various mechanical systems.

■Snow robotics
We are developing a new snow surface exploration robot that uses the Archimedean screw as a moving mechanism. Our robot is the only machine in the world that can move on fluffy fresh snow. Not only the robot itself, but both the hardware and software of the control system are all developed by ourselves.

■Cylindrical type 3D printer
Based on RepRap technology, we have developed a 3D printer specializing in printing an Archimedean screw. The feature of this device is a cylindrical print bed. We have developed our own control software to enable printing on the cylindrical print bed.

Appealing point:
I can give advice on both the hardware and software of embedded systems.

Yamagata University Graduate School of Science and Engineering
Research Interest : Control engineering,
Embedded system.

E-mail : y_ariga@yz.yamagata-u.ac.jp
Tel : +81-238-26-3764

HP : https://www.facebook.com/ARIGALAB