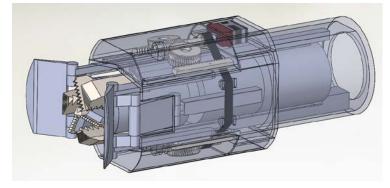
Concept Design for Mole-Like Excavate Robot and Its Localization Method

Junseok Lee, Hyunjun Lim, Seungwon Song and Hyun Myung* School of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), Korea

- A combination of drill-bit and linkage mechanism are utilized to represent function of burrowing animal's teeth and forelimbs.
- A novel mechanism, which allows both rotating and expanding the drill-bit with one actuator
- The localization system has been proposed that utilized wheel odometry and the magnetic sensor



Overall design of the excavation module