Designe of lunar crater exploration rover

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The purpose of this study is to design a lunar rover that runs stably and securely on the sloping surface of lunar craters. First, I produced a rover of specification to keep the balance of the body with a rope. Second, I sent the rover in three courses that imitated the slope of the lunar craters. It ran under the three conditions; slope angle, surface relief and gravity, and evaluated the performance with two standards. Results of three type of driving experiments showed that the rover could run safely on the course. It is concluded that the rover have the potential to drive stably on the slopes of lunar craters.

Keywords: driving test, Arduino, simulated track

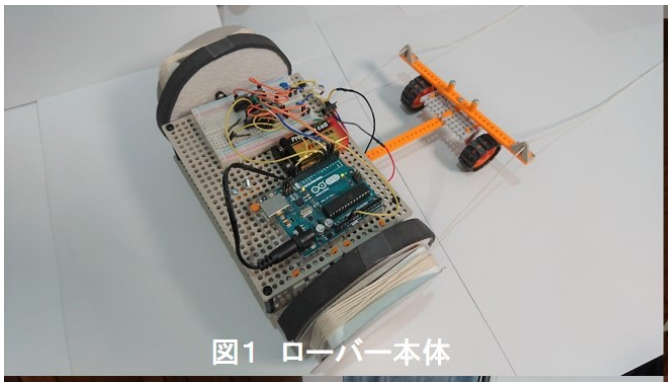
図1　ローバー本体

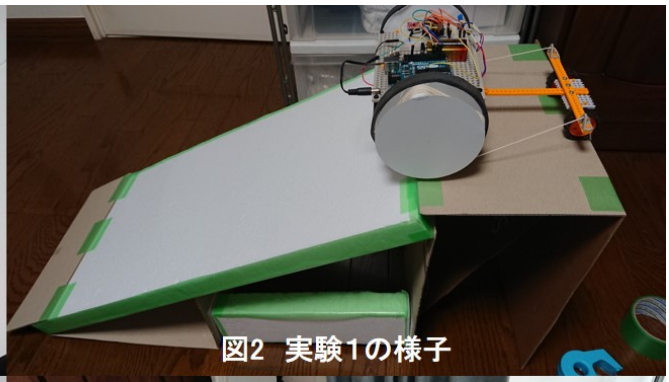
図2　実験1の様子


図3　実験2の様子


図4　実験4の様子

