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Coil-Coil Actuator for reduction of magnetic noise

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For reduction of magnetic noise of coil-magnet actuators, we developed a new type of actuator; coil-coil actuator. It consists of only coils instead of magnet and current applied to the coils is modulated. We can choose any modulation frequency to reduce ambient magnetic noise coupling, while keeping the actuation force sufficiently strong. In this poster, we show our experimental results for evaluation and reduction of the magnetic noise of a coil-coil actuator.

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