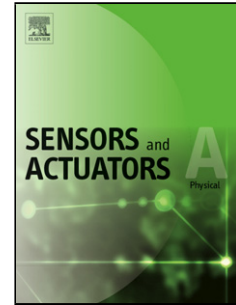


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Sensor and actuator simulation training system for en-route intravenous procedure

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Highlights

- * A system to record vibration during transport and impose their conditions on samples was developed
- * The degree of pitching and rolling could be reproduced to a good level using a 6 DOF simulator developed
- * Smartphone sensing provided the same level of sensitivity as the inertial measurement unit board
- * It is applied to simulate transport in a medical emergency vehicle to assist paramedics improve en-route cannulation
- * Preliminary study showed more pronounced cannulation performance deterioration with the untrained

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