



**The Chinese University of Hong Kong  
Non-confidential Abstract of Technology Disclosure**

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**Title:**

**An Omni-Directional Vehicle with In-wheel Motor and Independent Suspension Steering System**

**CUHK Ref. No.:**

07/ENG/246/ITF

**Inventor(s):**

Professor XU Yangsheng, Department of Mechanical and Automation Engineering

**Patent Status:**

- ◆ PCT Patent Pending

**Non-confidential abstract:**

This invention relates to an omni-directional vehicle with in-wheel motor, and more particularly, to an independent suspension steering system. The steering angle of mass production commercial vehicle is always between  $\pm 35^\circ$ . When parking or turning in a compact room, it is not an easy work. For an omni-directional vehicle, the demand of the steering angle must be up to  $\pm 90^\circ$ . This patents has achieved omni-directional steering technology by a original independent suspension steering system.

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