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## **Polymer Fiber Bragg Grating-embedded Artificial Skin for Tactile Force Detection and Contact Localization of Robotic Fingers**

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A tactile sensitive silicone-based artificial skin is fabricated on a fingertip model with embedded ZEONEX-based polymer Bragg gratings. Through tactile force feedback and the aid of machine learning, contact localization throughout the fingertip is achieved.

**Primary author:** Mr LEONG, Chern Yang (The Hong Kong Polytechnic University)

**Co-authors:** Dr GUNAWARDENA, Dinusha (The Hong Kong Polytechnic University); Dr CHENG, Xin (The Hong Kong Polytechnic University); Dr CUI, Jingxian (The Hong Kong Polytechnic University); Prof. TAM, Hwa-Yaw (The Hong Kong Polytechnic University)

**Presenter:** Mr LEONG, Chern Yang (The Hong Kong Polytechnic University)

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