

Closing the loop with embedded soft sensors

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Providing robots a sense of touch is one of the biggest challenges hindering the progress of robots into our everyday lives. Recent developments in soft robotic technologies and artificial intelligence are a promising solution to this problem. This talk introduces the technologies behind the development of soft robotic sensors, their applications and challenges. A brief insight into the current algorithms for their design optimization and data processing is provided and concluded with future challenges and opportunities in the development of closed-loop controllers with embedded strain sensors.