

Supplementary Materials

All-in-One Self-Powered Human–Machine Interaction System for Wireless Remote Telemetry and Control of Intelligent Cars

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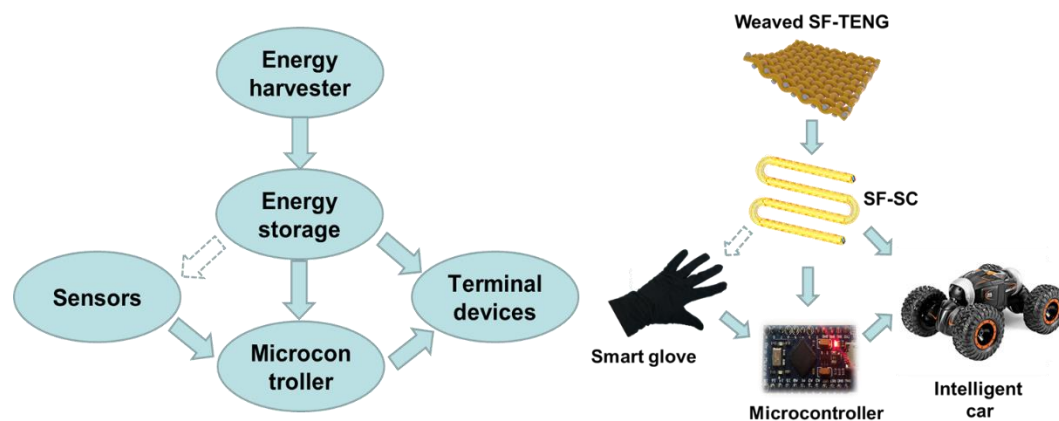


Figure S1. The working flow chart of an all-in-one self-powered human-machine interaction system.

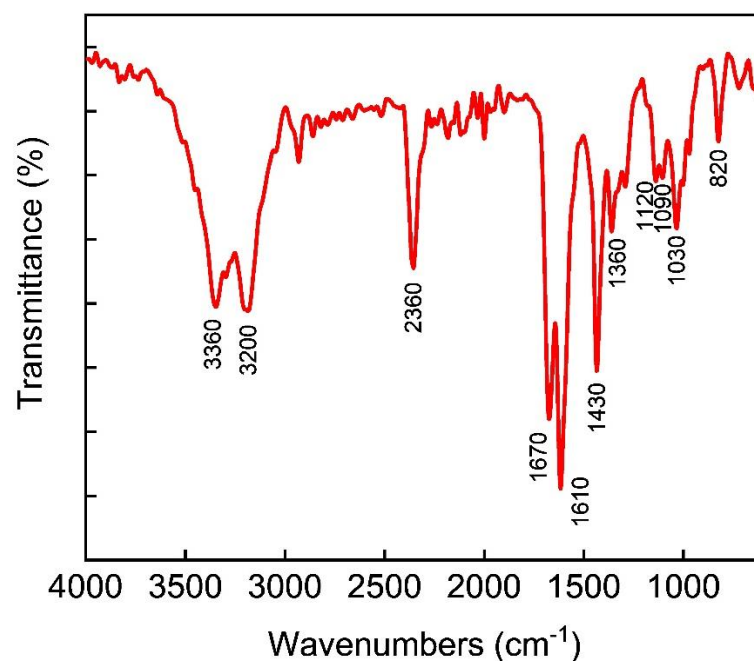


Figure S2. FTIR spectra of the freeze-dried composite hydrogel.

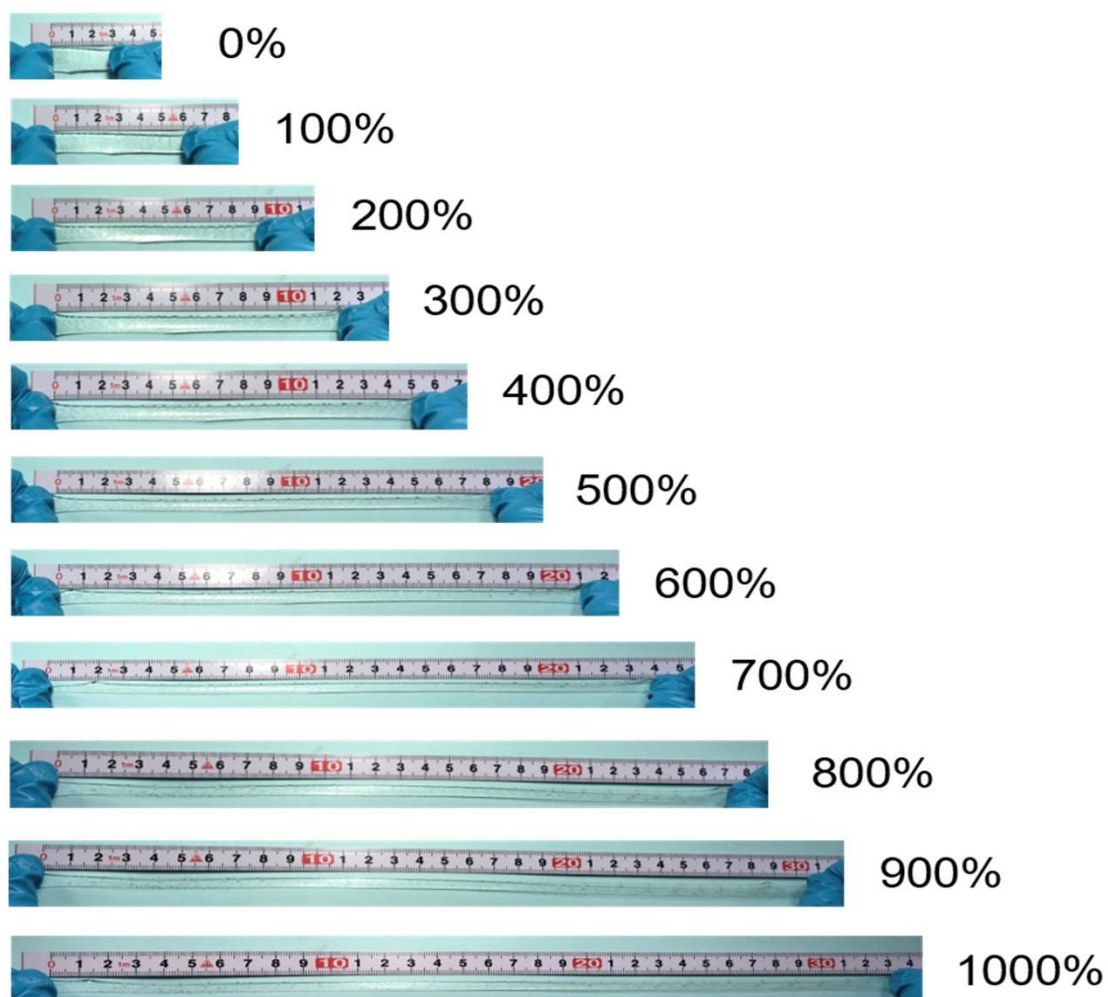


Figure S3. Optical images of hydrogel with different strains. The content of NaCl was fixed as 1.5g.

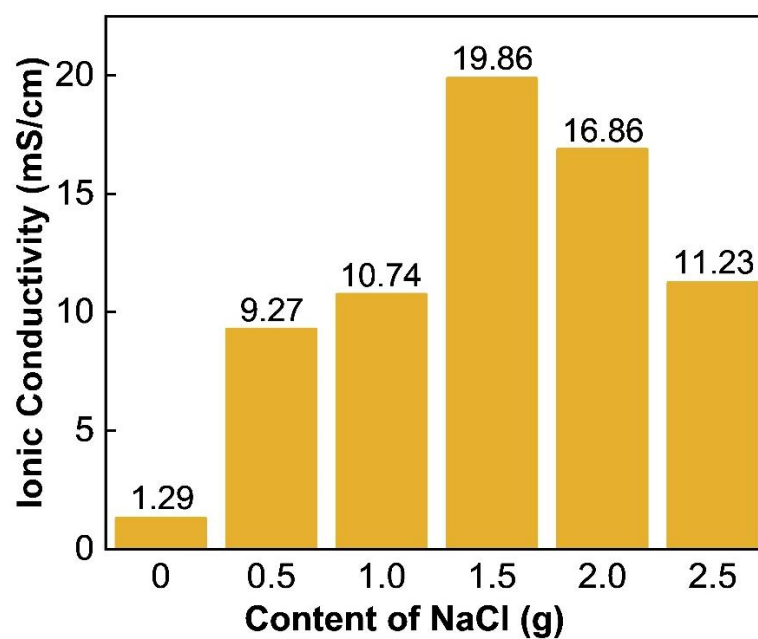


Figure S4. The calculated ionic conductivity(σ) of hydrogel with different NaCl contents. The maximal ionic conductivity is 19.86 mS/cm, which is 14 times higher than hydrogel without NaCl.

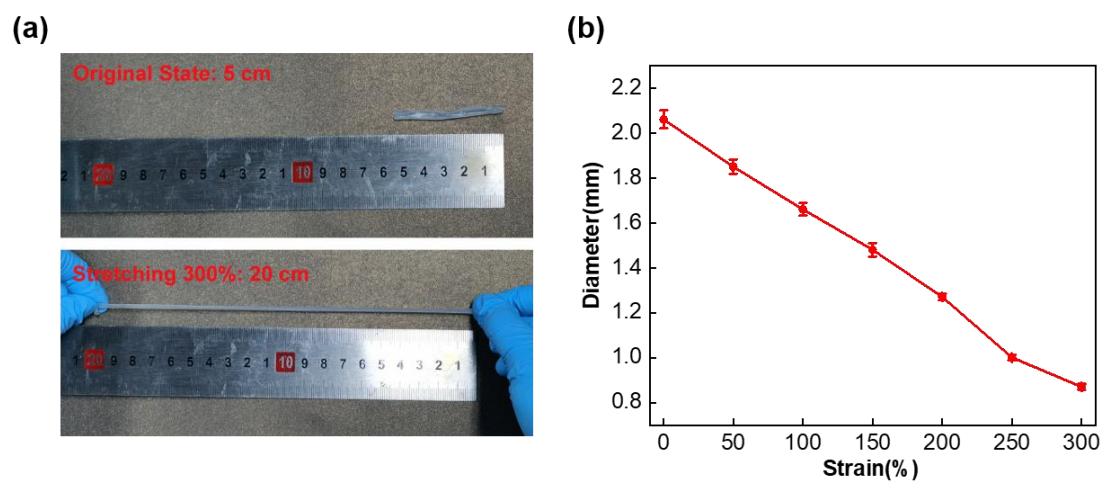


Figure S5. (a) Photos of SF-TENG at the original state and stretched state of 300% strain, (b) Diameter change at different stretch rates (0–300%).

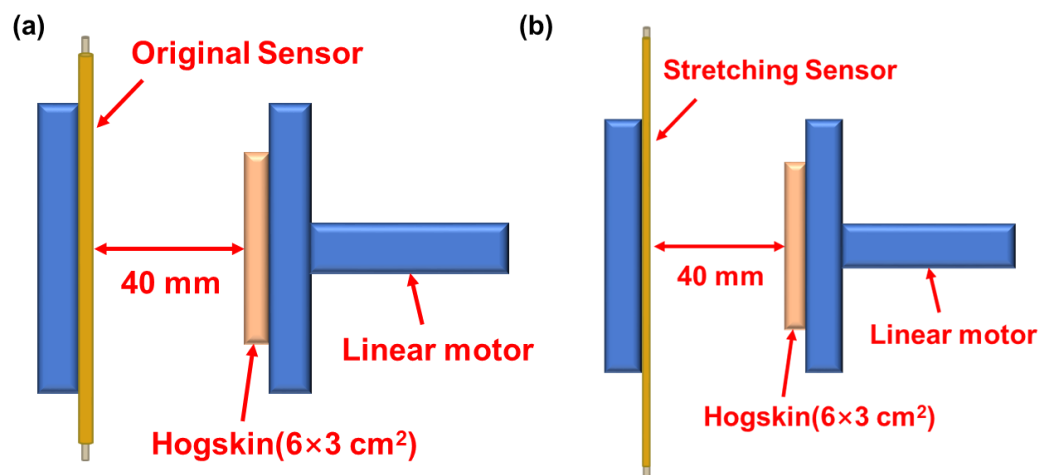


Figure S6. The testing schematic diagram of TENG at (a) original and (b) stretching state.

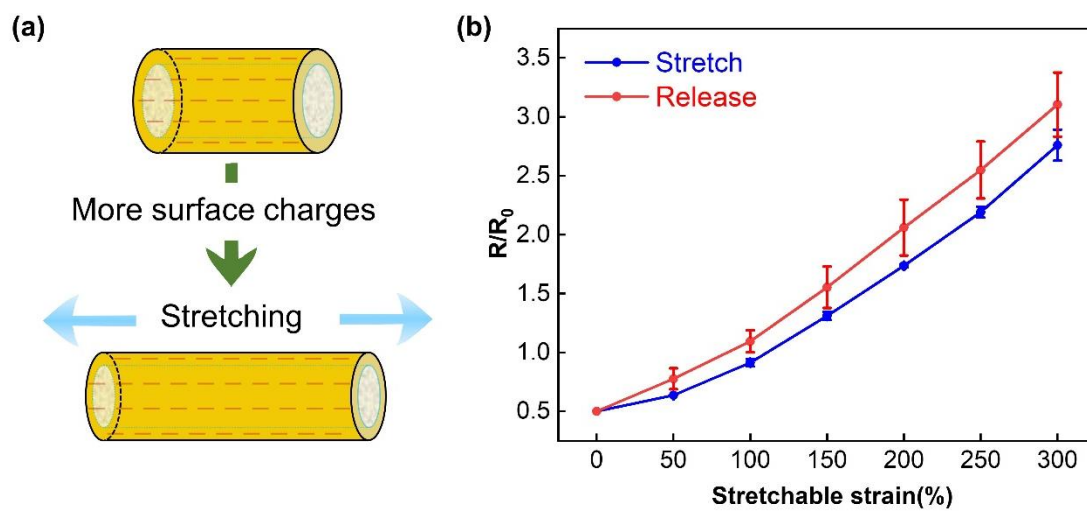


Figure S7. The surface of silicone rubber becomes thinner (a) and the resistance of hydrogel increase (b) during stretching.

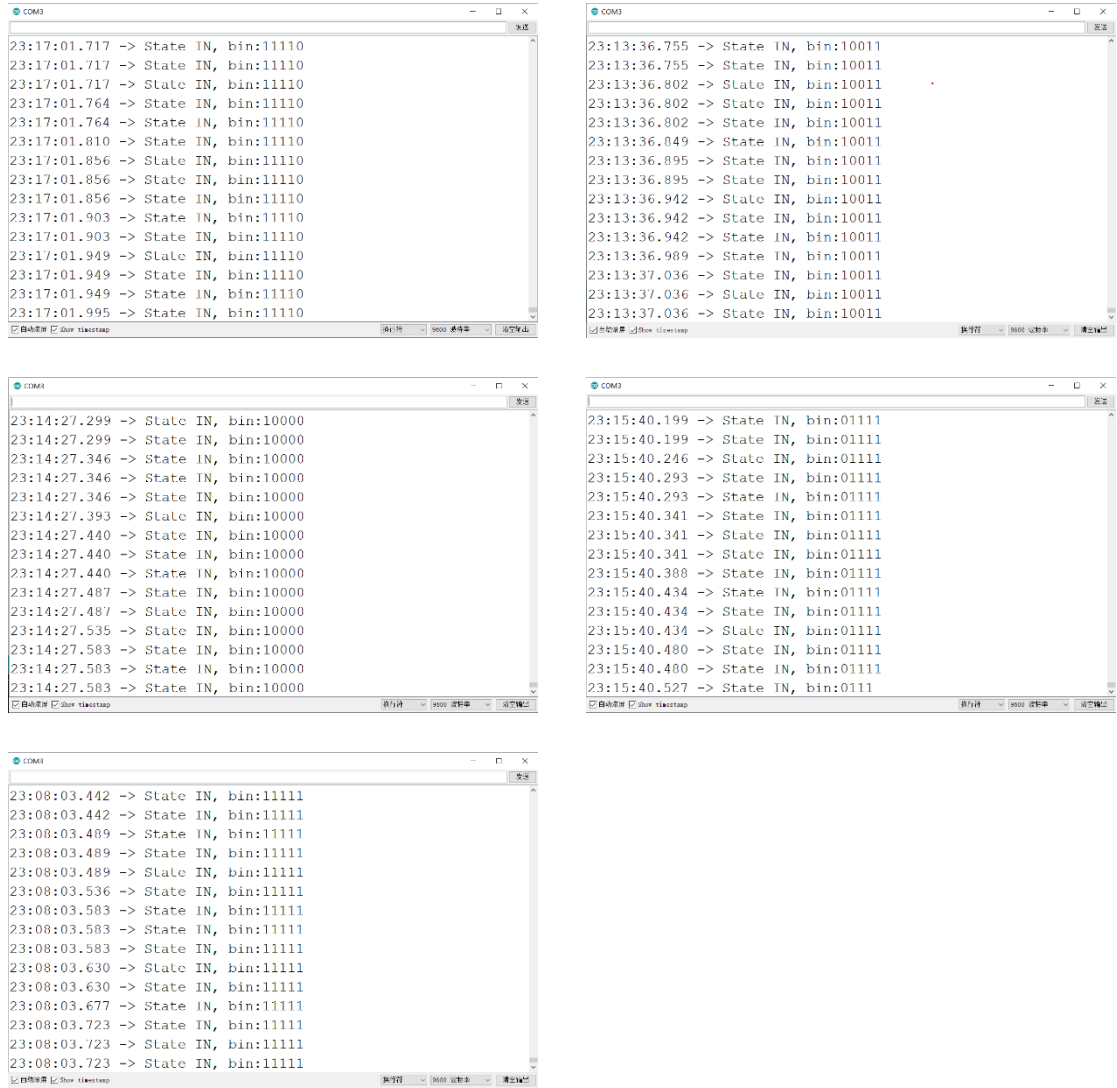


Figure S8. The processed and decoded RC command via a programmable mapping logic system.

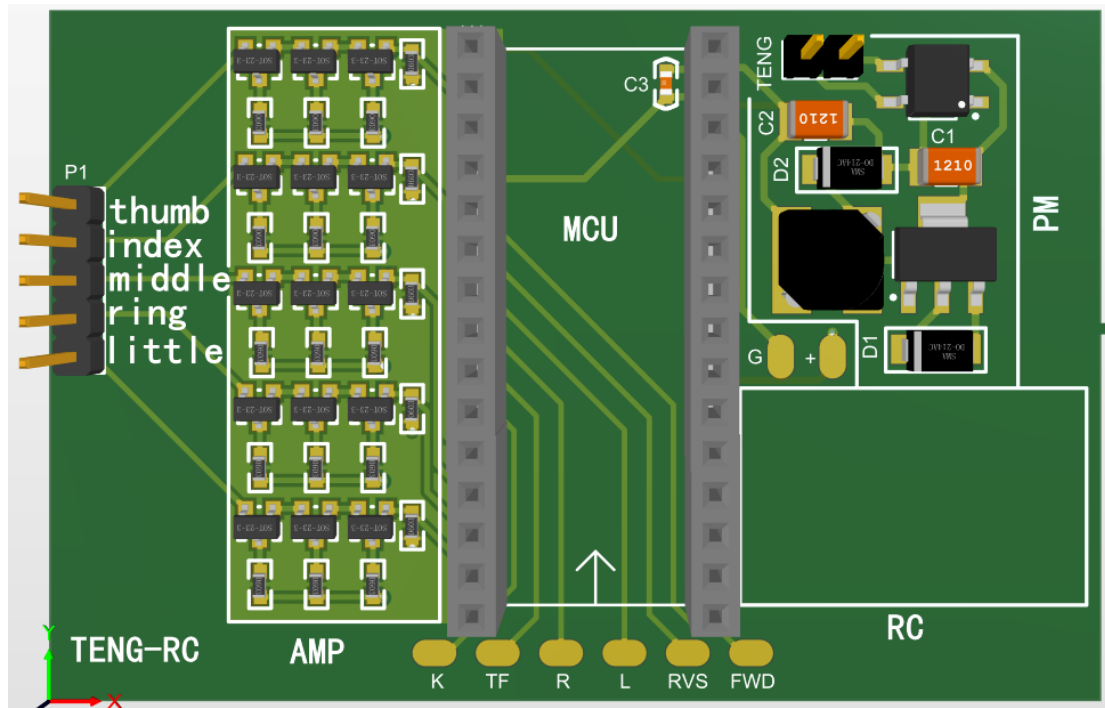


Figure S9. The circuit model for connecting the smart gloves and terminal devices.