

### **Fractional-order modeling and control of ionic polymer-metal composite actuator**

**Tepljakov, Aleksei;** Vunder, Veiko; **Petlenkov, Eduard;** Nakshatharan, S Sunjai; Punning, Andres; **Kaparin, Vadim; Belikov, Juri;** Aabloo, Alvo Smart materials and structures 2019 / 12 p. : ill <https://doi.org/10.1088/1361-665X/ab2c75> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Incorporation of fractional-order dynamics into an existing PI/PID DC motor control loop**

**Tepljakov, Aleksei;** Gonzales, Emmanuel A.; **Petlenkov, Eduard; Belikov, Juri;** Monje, Concepcion A.; Petraš, Ivo ISA transactions 2016 / p. 262-273 : ill <https://doi.org/10.1016/j.isatra.2015.11.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Interactive whiteboards in extended reality for advanced control system design**

**Tepljakov, Aleksei** 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 1-5 <https://doi.org/10.1109/TSP52935.2021.9522616>

### **Software implementation of FOPID controllers with tuning capability for fractional FOPDT plants**

**Tepljakov, Aleksei;** Alagoz, Baris Baykant 44th International Conference on Telecommunications and Signal Processing (TSP) 2021 / p. 199-203 <https://doi.org/10.1109/TSP52935.2021.9522602>