Digital Filters & Systems

Pieter P

📁 **DTLTI Systems, Transfer Functions, and the Z-transform**

Explanation of Discrete Time Linear Time-Invariant Systems, transfer functions, and the Z-transform.

📁 **Exponential Moving Average**

Digital exponential moving average filters explained, as well as an implementation in C++, and simulation in MATLAB.

📁 **Simple Moving Average**

Digital simple moving average filters explained.

📁 **Discretization**

Converting continuous-time filters to discrete-time filters.

Simple Finite Impulse Response Notch Filter

Designing a simple FIR notch filter to suppress a single frequency.