Macro-Level Soleus Simulation

Onder Gurcan

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1 Experimental Frame

- Start / End: 2012-05-09 19:28:37 / 2012-05-09 19:36:46

- Duration: 8 minutes 8 seconds / 000049200000.0ticks

1.1 Simulation Parameters

- Annoyance levels (reorganization/evolution): 20 - 40

- Resting AHP Level (mV): 0.1

- Pathway beginning/end (ms): 39.5 - 200.0

- Smoothing count: 8

- Average frequency fault tolerance (Hz): 0.6

1.2 Agents

- Number of Existing Neuron Agents: 473

- Number of Removed Neuron Agents: 0

- Number of Existing Synapses: 721

- Number of Removed Synapses: 221

2   Results

Reference PSF

- Peristimulus mean: 7.701737775375868

- ErrorBox LowerB: -23.737677024926487

- ErrorBox UpperB: 42.59999985390896

Simulated PSF

- Peristimulus mean: 7.855547200205376

- ErrorBox LowerB: -31.46736863869463

- ErrorBox UpperB: 40.40333474840341

Simulated Results vs. Reference Data

- Peristimulus mean diff: 0.15380942482950832

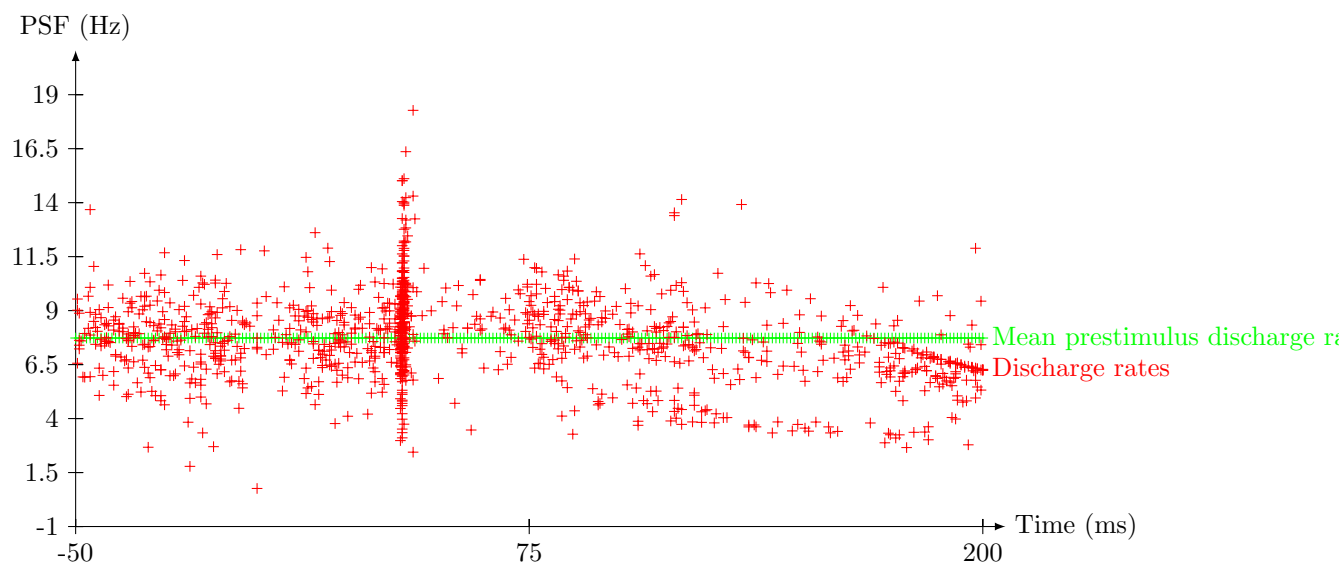- Pearson correlation [39.5, 200.0]: 0.9487506677441105

- r2: 0.9001278295448957
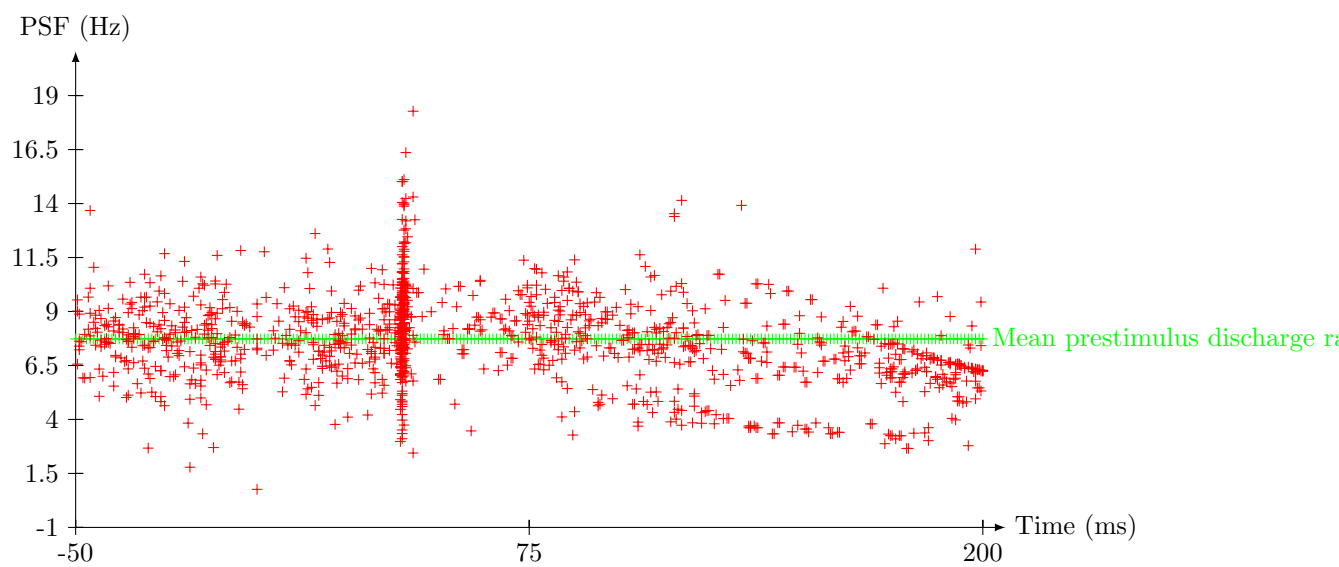
Figure 1: Raw Reference PSF
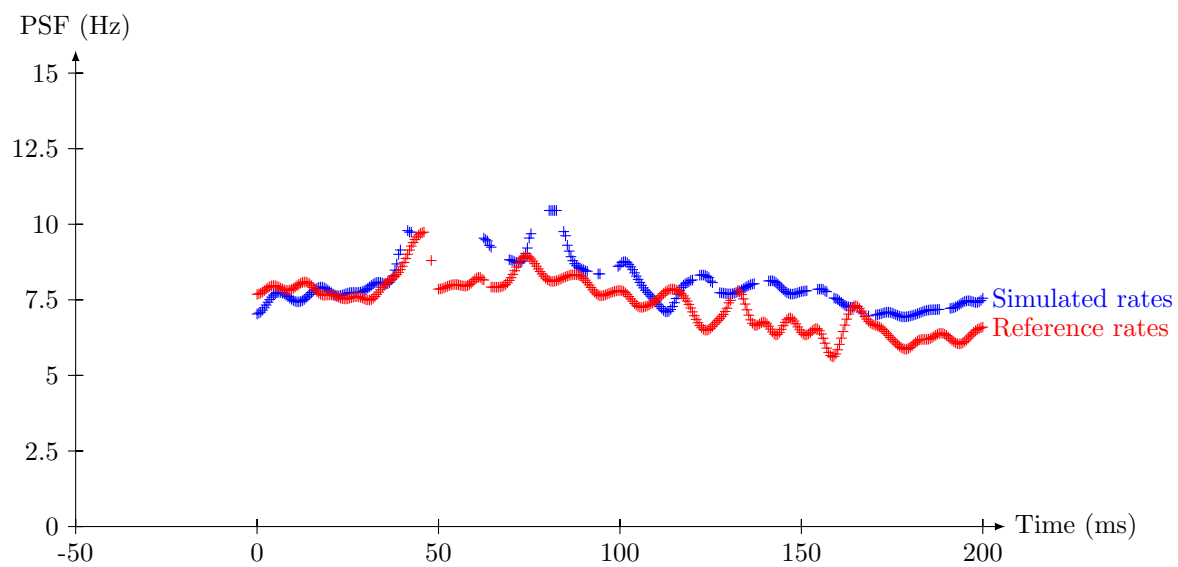

Figure 2: Filtered Reference PSF
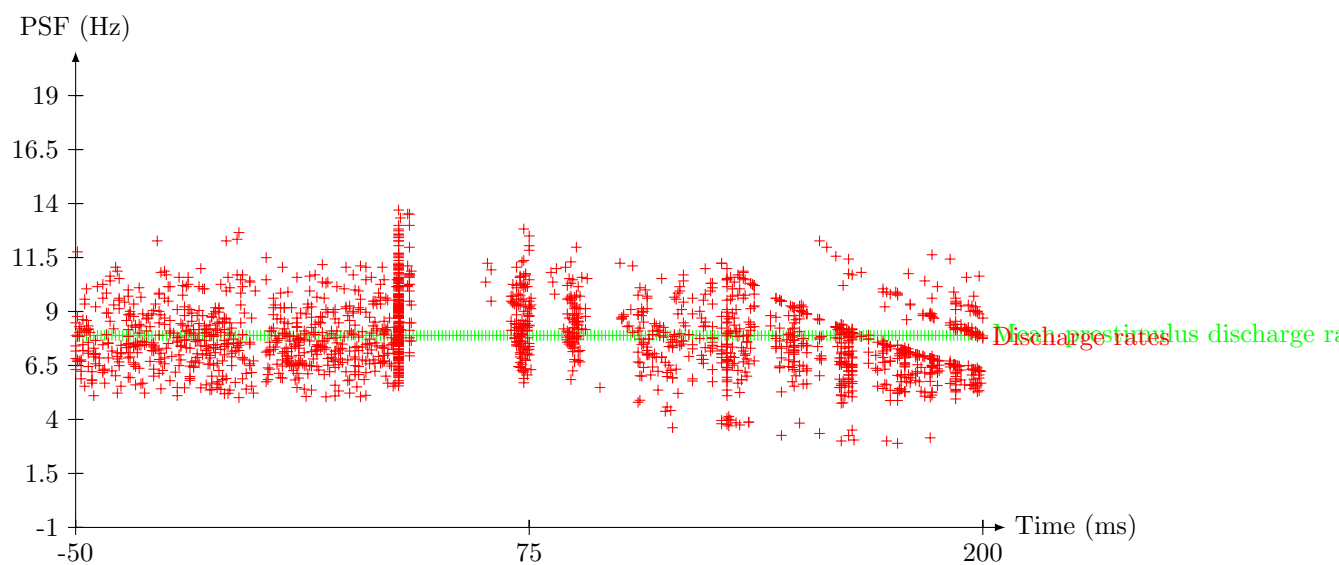
Figure 3: PSF - Average Discharge Rates

Figure 4: Simulated PSF

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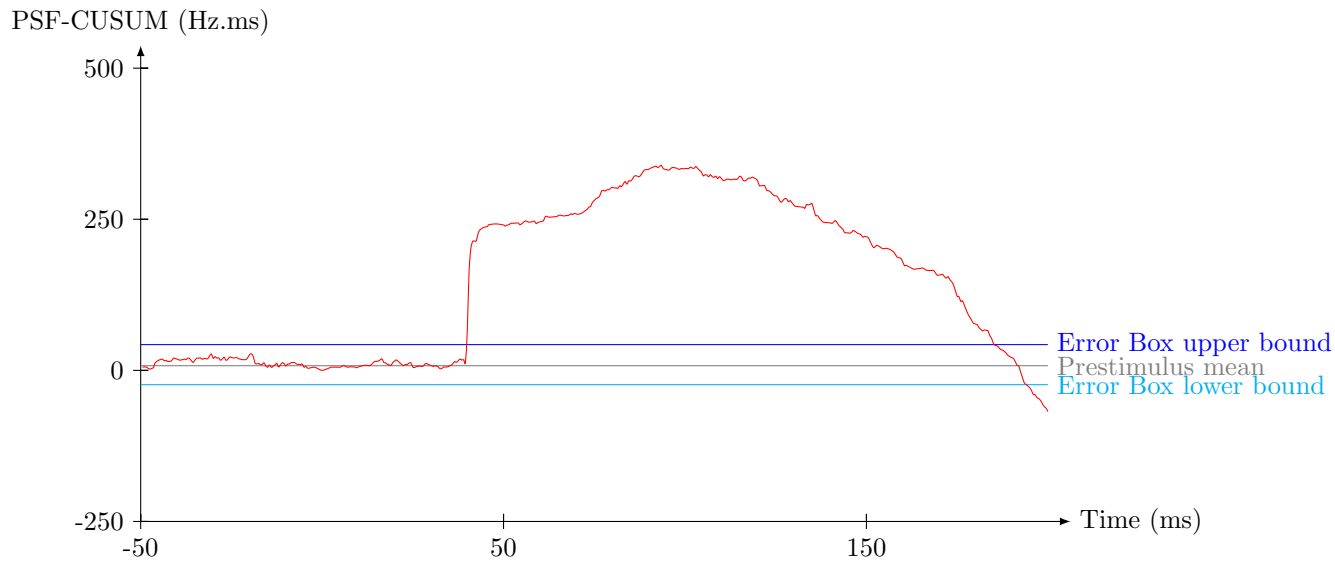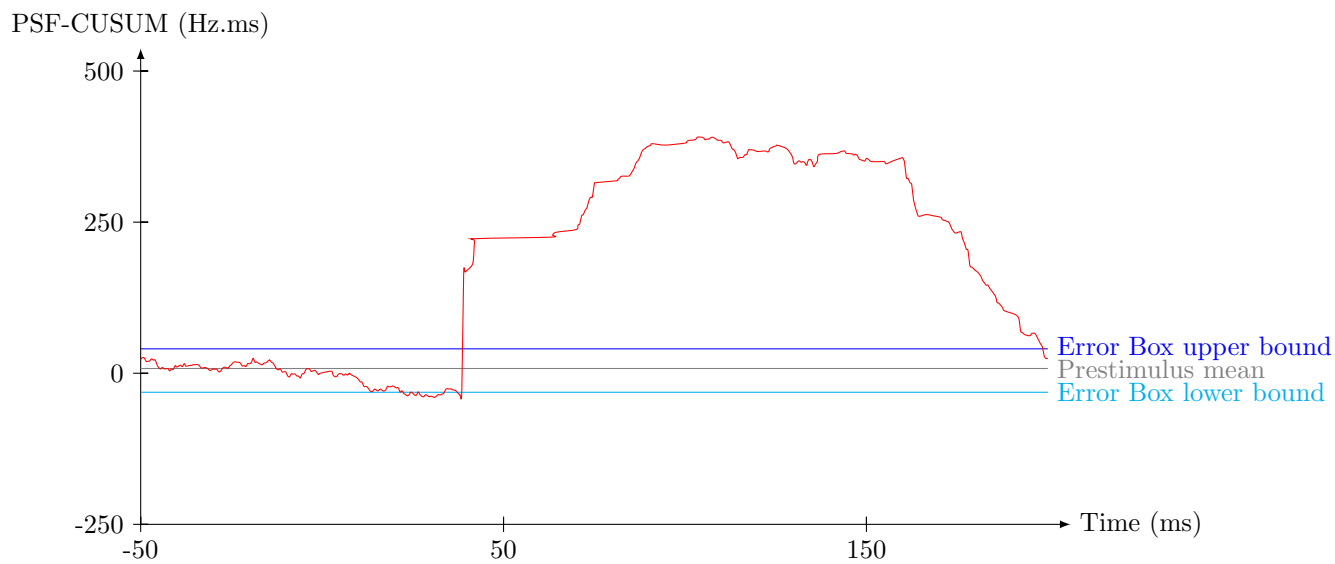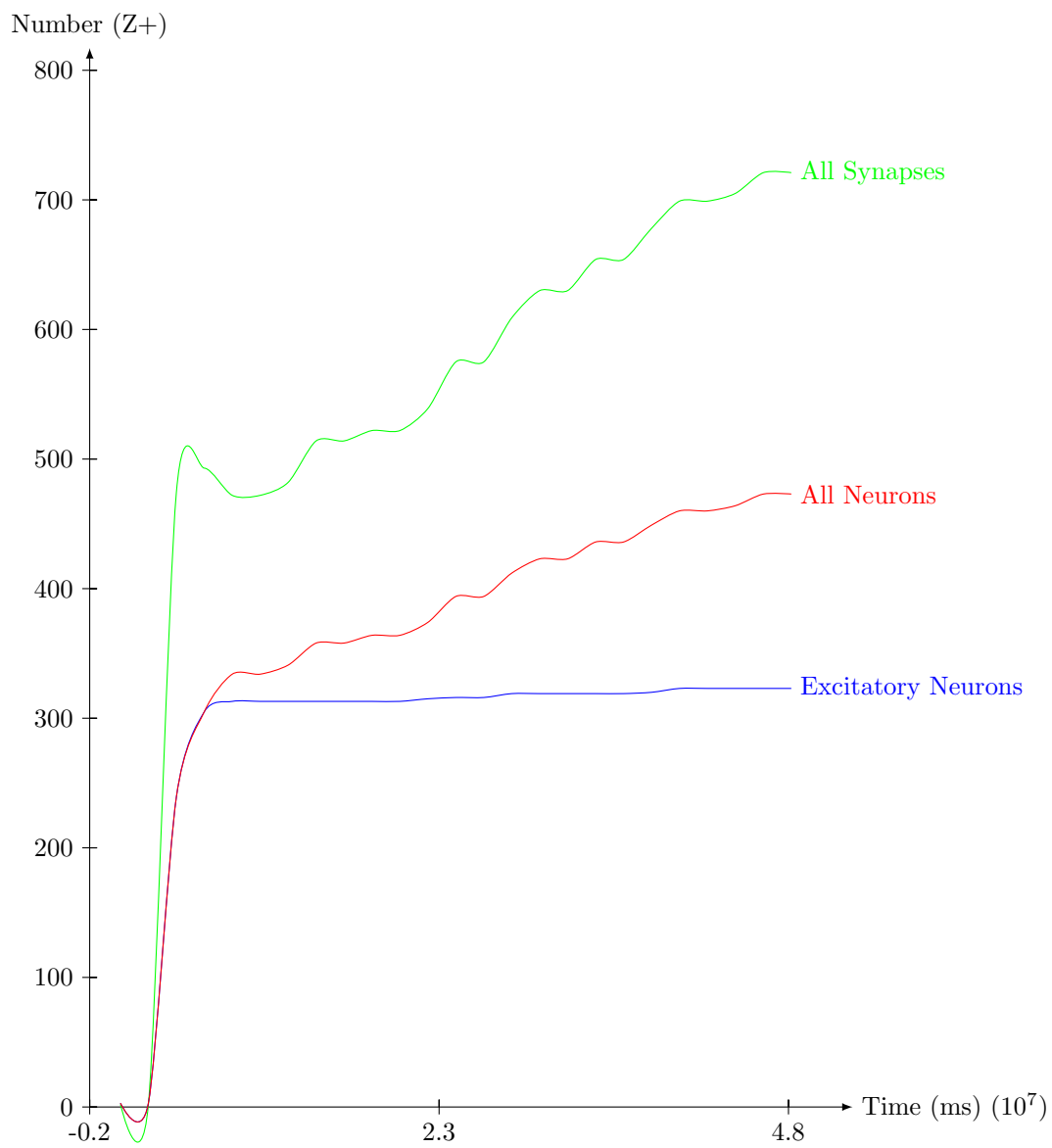Figure 5: Reference PSF-CUSUM

Figure 6: Simulated PSF-CUSUM

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Figure 7: Number of Entities by time