Key Variables	Description
A0s	Cell array. A0s{i} contains the A for sample data i.
File	Structure. Length of sample number. Containing two fields, 'options', 'Ysignal'. Options keeps the neuron options. Ysignal keeps the background subtracted and de-noised data, which is essentially A*C after iteration.
Mode	String, either 'initiation' or 'massive', which means sampling and extracting all data respectively.
ACS	Structure. Length of sample number. Three fields. 'Ain', 'Cin', 'STD'. 'Ain' and 'Cin' is the BigA and BigC in Figure 2 (ReadMe). 'STD' is the standard deviation of each temporal traces (Cin).
ind_del	There are two ind_del in different scopes in this BatchVer. ind_del of the output of mergeAC is an intermediate variable, indicating that these neuron(ind_del) are involved in merging. Users would not need to care about this one too much. The other one is in the output of final result, neuron_batch. ind_del here is an index for neurons that have temporal traces not deconcolved successfully or have all zeros. Looking at all files' ind_del, in output log file of each running, "First x neurons are successfully deconvolved in each files" is printed to prompt you this. The number of x is sum(~ind_del_final).
Afinal	The final A used to extract all file's C.
neuron_batch	Structure, length of data file number. Each row of neuron_batch stands for each data file, which has information/data in 4 fields, 'ind_del','signal','FileOrigin','neuron'. Ind_del, see above. signal is a matrix where each row is the neuron' s background subtracted and denoised signal: median(jA(jA>0)*jC). FileOrigin is a structure, essentially a row of dir(Datadir). neuron is the result of CNMF-E using Afinal. This "neuron" does not contain full information as a normal CNMF-E due to the steps it skips. See section Summary of differences between CNMF-E (basic) and CNMF-E (BatchVer) in ReadMe for more information.