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| --- | --- |
| 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. |
| A | A=cat(2,A0s{:}) |
| Amask | Amask =A>0. This Amask is used for calculating spatial correlation among A’s across days. |
| ACS | Structure. Length of sample number. Three fields. 'Ain','Cin','STD'. ‘Ain’and ‘Cin’is the BigA and BigC in Figure2(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. One can use the following command: |
| commonA | A’s that are merged. Merging method: type help mergeAC. |
| weightedA | A’s that are not merged averaged across BigA’s across files using standard deviation of C. |
| Afinal | Afinal=cat(2,commonA,weightedA); |
| 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. |