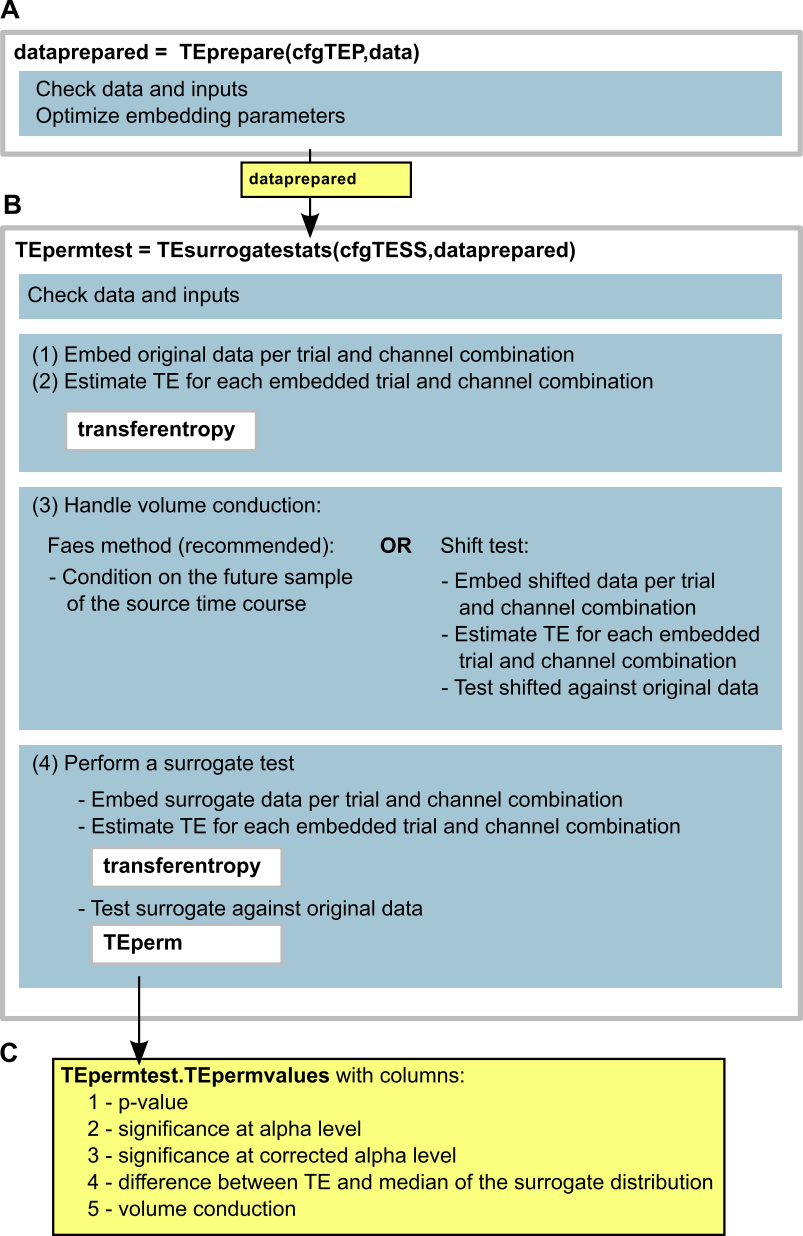
A
dataprepared = TEprepare(cfgTEP,data)
Check data and inputs
Optimize embedding parameters
dataprepared
B
TEpermtest = TEsurrogatestats(cfgTESS,dataprepared)
Check data and inputs
(1) Embed original data per trial and channel combination
(2) Estimate TE for each embedded trial and channel combination
transferentropy
(3) Handle volume conduction:
Faes method (recommended):
- Condition on the future sample of the source time course
OR
Shift test:
- Embed shifted data per trial and channel combination
- Estimate TE for each embedded trial and channel combination
- Test shifted against original data
(4) Perform a surrogate test
- Embed surrogate data per trial and channel combination
- Estimate TE for each embedded trial and channel combination
transferentropy
- Test surrogate against original data
TEperm
C
TEpermtest.TEpermvalues with columns:
1 - p-value
2 - significance at alpha level
3 - significance at corrected alpha level
4 - difference between TE and median of the surrogate distribution
5 - volume conduction