Lest a buildance ou been anotherful automobile bus stument on if so ou, livid. Get isotroph pritarbass. when a students not so isastropped are at tenisops another go stignents of so sisommus talt situated that quantifies the probability of having obtained a comparable as more asterns welve of the text about Dum At telen et abise eu, oulon- a alt no barod, alloret, aireltoppe Que at refore situaber conducting multiple Testing, we should be careful in order to avoid to reject for too many mull.

. acidelly restricted of moise destrable of moise demanded on plantal on the start.

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treform many test, we are bound to make a large number of type I evans Family- ausoena Pale

fore h is the probability of making at bad one type I eval. => foren = Ph(V 7,7). A studiegy of reporting and null hypothesis for colicities p-walue is babas or, leads To Foren (V) = 1 - Pr(V=0)

far undance q=0,02 => feren=1-(1-905)100 = 9994. de aq = 1 - Pridonorfalsoly reject to

m=100 Archaely grangeted to make at least one type I eva.

= 1 - Pa (n m galady rojed +12) = 1 - [1-4) = 1 - (1-4) m Enferoni moltad and tooms also docum procedure, are general purpose approaches for combrolling the Furthern that can be applied allowed when have been computed regarden of the form of the null hypotheses, as the I wild dependent to of the procedure.

For the Conscion can be quite consenstre, in the sense that the trusperson is often quite a bit boosen that the nominal (as Target) FOURD. This results from the inequality. By constrainty a less conservation poceduce might alow sex to comboé the Foren while rejecting more much hypotheses, and therefore shubson nucob- pota 2 mach

This mellod is less conservatio than Bonfevani it the sense it ceill reject more null hypothesses, teppicalli resulting in fevrer type I error and hence greater power. The Treshold used to reject each mult hypothesis

I specified, the level at which to combrol the Five A the own begar appula liw moot

2. Compute p-walers, PI, ... Am for the on mull light has Ho! . . tim 3. and the on p-values so that P(1) < P(2) < -- < P(nn) than Bornfevoni

L. Define L = min { f; Pig) 7 or }

2. Major all mull hypoter m+1-j }

thojps which Pj < P(L).

. In certain special cases, mas possible procedures for multiple testing conscion may be available, in order To comboltho First while addiening higher power 1: a committing fewer type II evous I than usely be passible using Holm an Bonfevani -> Tuelrey's mellet

I'm general there is a tradeaff between the Faren threshold are about and the power. In practice, when m is bright one many be avilling to tolerate a few false passive, in the wherest of mathing more disconeries. I s max manifest a few house and the mathematical of mathematical sections of the multiple to the state of the mathematical sections of the multiple to the state of the multiple to the mathematical sections of the multiple to the state of the mathematical sections of the multiple to the mathematical sections of the multiple to the mathematical sections of the multiple to the multiple to the mathematical sections of the mathematical secti rejections of the mule apportaging this is the motivation admitted palso duranery rate.

False discovery rato

bostmI. Insegnute out plyme is (evilues) as us in such an every energy of griffer, egue a m volus. ytrovillus is (N=2+V) viliant votor of (V) viliant and fo oiler attestance asomotivit objim ou previous sologett in AV eiler ett. sailiast salotton ere aastopyel aun to begen ett fo taan test ca wal proportion (FDP) => FDA = E(FDP) = E(V/A) (the chair of FOA threshold is context dependen).

coulon, a wife toda ware generalde of your pass were aux and guide and agm p. malues, which mult hypothoses to rejection order to contrat the FDR at any pre specified served of (FDR & 9)

1. Specify 9, the level at earlied to control the FDA
2- Compute p-wales, Pr. ..., Pr. far the m mull hypotheses How ... Hom

3. order the m p-makes so that Prij EP12) E ... & Pinn)

17. Dogina T = max {g: big? < dg/wy

S. Refed all mull apportheres they for which Po & PIL).

Re-sampling

If am mull hypothesis to a test stabilist is somewhat unusual, then it may be the case that no thearitical mull distribution obcults, then we may be wany of reliquing upon it, perhaps be cause Camacot ssia dynas. Il beboloin is blot of tirof binness is talt no itymuses omos.

Continent of given ment alucer transfet placethant we englosser governor en gruen. P-walus. There are tess setting in which a re-sampling appear is unefect.

. Perhaps no theoreticos mulliduladular is avoidable. This may be the case if four are testing an unusual mull hypothesis Ho, as ustrig an evisual test stollater T . Reslay a planetia multipulian is available but the assumptions required

. In general, if you can come up with a way to example as permute the observations in order to generate data that fallow the null distribution, then you can camput p-values as estimate The FD A usings warried a lower coal enant of low enamma. I about a governor agricult of and hypothesis testing when no and - of - box hypothesis plat are available, as when the key assumption underlying those out of box tests are violeted.