Subject: Re: Random sample selection without replacement (using IMSL_RANDOM_SAMPLE)
Posted by Patrick Leinenkugel on Mon, 24 Oct 2011 06:40:15 GMT
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On 21 Okt., 18:14, Michael Galloy <mgal...@gmail.com> wrote:
> On 10/21/11 3:59 AM, Patrick Leinenkugel wrote:
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>
>> Hello,
>> I like to generate a random selection (eg. 5 samples) of a population
>> without replacement from a one dimensional array with n samples (eg.
>> n=100). I tried to use the IMSL_RANDOM_SAMPLE function which works
>> fine if I have (k,n) dimensional arrays (k variables (e.g k=2), n
>> samples(e.g n=100)).
>> For one dimensional arrays, however, the command
>
>> samp = IMSL_RANDOM_SAMPLE(5, pop)
>
>> results in the error message: "IMSL Error: IMSL_RANDOM_SAMPLE:
>> Terminal error: STAT_BAD_NROW_NSAMP: NROW = 1 and NSAMP = 5. Since
>> there is only one invocation of this function, NROW must be greater
>> than or equal to nsamp."
>
>> Can anyone tell me what I do wrong or has a nother way to easily
>> generate random selection without replacement.
>> Thanks,
>> Patrick
>
> I use my own routine, MG_SAMPLE. Here is the code:
>
> http://docs.idldev.com/idllib/analysis/mg_sample.pro
>
> Docs here:
>
> http://docs.idldev.com/idllib/analysis/mg_sample.html
>
> It works by creating a random array of size n and finding the indices of
> the smallest k elements (using a HISTOGRAM approach instead of SORTing
> the entire array).
>

> Mike
> --
> Michael Galloywww.michaelgalloy.com
> Modern IDL, A Guide to Learning IDL:http://modernidl.idldev.com
> Research Mathematician
> Tech-X Corporation

Thank you very much Mike!
