Subject: Re: Random Sampling Without Replacement
Posted by wlandsman on Wed, 13 Oct 2010 15:53:00 GMT
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On Oct 13, 11:46 am, David Fanning <n...@dfanning.com> wrote:

>
> Has anyone coded up an IDL algorithm to do random
> sampling without replacement?

Read the master? http://tinyurl.com/26edmmq

Subject: Re: Random Sampling Without Replacement
Posted by David Fanning on Wed, 13 Oct 2010 15:59:44 GMT
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Wayne Landsman writes:

> Read the master? http://tinyurl.com/26edmmq

Ah, my general rule is that I only write articles
on topics I understand. I didn't understand this
then, and I barely understand it now. I'm just
going to have to try harder, I guess. :-)

Thanks!

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Random Sampling Without Replacement
Posted by Michael Galloy on Wed, 13 Oct 2010 16:01:26 GMT
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On 10/13/10 9:46 AM, David Fanning wrote:
> Has anyone coded up an IDL algorithm to do random
> sampling without replacement?

>
> For example, suppose I want to sample values in
> my 2D image. I want, say, 100 values that represent
> individual pixel locations in the image. How can
> I make sure I get 100 unique, but random, locations?

To randomly sample m elements from n elements, I have used this albeit inefficient technique:

```
m = 3
n = 100
im = findgen(n)  ; input array
arr = randomu(seed, n)
ind = sort(arr)
print, im[ind[0:m-1]]   ; m random elements from im
```

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--
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