
Subject: Re: Image thresholding

Posted by [David Kastrup](#) on Mon, 17 May 1999 07:00:00 GMT

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David Brennan <9147261b@clinmed.gla.ac.uk> writes:

> Does anyone know of a fast routine or function for searching through a
> 3D data set and setting numbers within a predetermined range of values
> to zero. i.e,
>
> the range is 5 - 10
>
> A data set contains [0,1,2,3,4,5,6,7,8,9]. It becomes
> [0,1,2,3,4,0,0,0,0,0]

Well, in Matlab you would write

```
a(find(a >= 5 & a <= 10))=0;
```

The equivalent in IDL would be

```
a[where((a ge 5) and (a le 10))] = 0
```

Only that this fails miserably when no members satisfy the condition.

A typical case of idiotic semantics of IDL core functions. So we have to write this as:

```
w = where((a ge 5) and (a le 10))  
if w[0] ge 0 then a[w] = 0
```

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