
From: jeffrey E. <jeevacation@gmail.com>
Sent: Tuesday, January 23, 2018 11:39 AM
To: SB (Serguei Beloussov)
Subject: Re: FW: bio computing and algebraic topology

data , neurons , etc are all embedeed in a space. =A0 most anaylysis igoores the location. topo=ogy .in its basic form and tramformations in more tha 2 dim allows=C2 similar data sets to be recognzied. yes =A0 it is not yet used. it will be , my guess. =A0 .

On Mon, Jan 22, 2018 at 9:02 PM, SB (Serguei Beloussov) [REDACTED] wrote:

-----Original Message-----

From: Коняев Андре=D0 [REDACTED]
Sent: Monday, January 22, 2018 10:44 PM
To: SB (Serguei Beloussov) [REDACTED]
Subject: bio computing and algebraic topology

Hi!

Looked over some articles, asked some fellow-mathematicians and this is wha= I have got (keep in mind that I don't fully understand what bio-compu=ing means in this context).

The algebraic topology is used in computational models of protein folding. =t's not new, but the progress in the field is quite slow. I believe th=re is no effective computational models here yet.

The other use of topology is study of graphs of organic compounds, drugs in=particular. I have heard that there are some progress here, it is possible=to do calculations here with some non-trivial results. In Russia there'=s a company called Biocad, that does that.

Finally the third topology use is neuroscience. It is something of this kin= <https://arxiv.org/pdf/1605.01905.pdf>
<<https://arxiv.org/pdf/1605.01905.pdf>>

If there's a particular project, I think I can give more specific answe=>

Regards,
Andrei Konyaev

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=A0 please note

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