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Subject: Re: Averaging quaternions

Posted by [One Usenet Poster](#) on Fri, 19 Mar 2004 04:17:40 GMT

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Graham wrote:

- > Does anyone know if it is possible to take an average of regularly
- > sampled quaternions to get a mean orientation (i.e. a mean rotation
- > matrix)? I seem to recall there being a trick involved but beyond
- > re-normalizing the resulting (averaged) quaternion, I cannot remember
- > what it is.
- >
- > Cheers,
- > Graham

Graham:

Maybe you could try the SLERP (Spherical Linear IntERPolation) method to average the quaternions. Here's a link that describes the SLERP method:  
<http://www.theory.org/software/qfa/writeup/node12.html>

Good luck,  
OUP

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