Subject: Re: stereo triangulation in IDL
Posted by derkleinepilz on Mon, 17 Sep 2012 18:08:44 GMT
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On Saturday, September 15, 2012 10:52:33 PM UTC+2, Klemen wrote:
> On Saturday, September 15, 2012 7:31:41 PM UTC+2, (unknown) wrote:
>
>> Hey,
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>> I want to calculate the top height of a cloud using pictures of two satellites, but I'm kinda new to this stuff and figured that stereo triangulation should do the trick. Does anyone know if there already is a procedure doing stereo triangulation out there? That would be great, 'cause it looks really complicated. I wouldn't know how to programm something like this.
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>> regards, Haiko
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> I am just finishing a paper for ACP on this topic (Monitoring volcanic ash cloud top height through simultaneous retrieval of optical data from polar orbiting and geostationary satellites). My procedure is not based on triangulation, but on area image matching (3-level pyramids). If this helps, let me know.
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> Cheers, Klemen

That sounds interesting. I've heard of the 3-level pyramids, but I thought that you could just use that as some kind of stereo-matcher. So how exactly do you calculate any height information? (Btw, coincidentally my research is also aboout volcanic ash cloud top height ;-))