

## Protipe 3D surveillance system berbasis anaglyph = Prototype 3D surveillance system based on anaglyph

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### Abstrak

[<b>ABSTRAK</b><br>

Konsep 3D imaging diperlukan agar hasil pencitraan yang didapat lebih detail. Dari sekian metode 3D imaging, anaglyph adalah salah satu metode untuk menciptakan pencitraan 3D dan metode ini telah diaplikasikan untuk sistem surveillance pada rover di Mars.

Efek-efek depth perception, binocular depth, dan efek lain-nya dari metode anaglyph dimanfaatkan untuk aplikasi sistem prototipe 3D surveillance. Dan proses pembuatan anaglyph dalam aplikasi tersebut dibuat tanpa melewati post processing sehingga bisa dipantau secara real time. Dengan menggunakan prototipe yang dibangun, teknik-teknik pembuatan citra anaglyph serta dari hasil eksperimen yang dilakukan, didapatkan kesimpulan-kesimpulan pembuatan sistem anaglyph secara real time dan tanpa post processing untuk sistem surveillance. Dan juga harapan dari hasil penelitian ini bisa menjadi referensi untuk sistem visualisasi berbasis anaglyph secara real time yang lebih lanjut, misalkan untuk aplikasi robot.

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3D imaging concept is needed for getting more detailed result from an image. From various kind of 3D imaging method, anaglyph is one method to produce 3D image and this method itself has applied in the surveillance system on the Mars' rover.

Such effect like depth perception, binocular depth, and any other effect from anaglyph's method are used for application of prototype 3D surveillance system. And also it does not need any post processing in creating the anaglyph image itself so that it can be viewed in real time.

Finally, some conclusions in creating non post processing and real time anaglyph's system has been reached due to the experimental results by using this prototype and techniques in creating anaglyph image. And also hoped this experimental results could be a future reference for advance application that using anaglyph visualization., 3D imaging concept is needed for getting more detailed result from an image. From various kind of 3D imaging method, anaglyph is one method to produce 3D image and this method itself has applied in the surveillance system on the Mars' rover.

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