



OpenNICTA Open Source Software Information and Video Transcript

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| Software name: | Armadillo Library |
| Software description: | Armadillo is a C++ linear algebra library (matrix and vector maths) aiming towards a good balance between speed and ease of use. |
| Project description: | The Armadillo Library is being developed as part of the <u>SAFE Advanced Surveillance Project</u> within the Smart Applications for Emergencies framework. |
| Link to Software: | http://arma.sourceforge.net/index.html |

Video Transcript

Interview with Conrad Sanderson

Tell us about yourself and the research you are currently working on

Conrad: I'm Dr Conrad Sanderson. I work in the Advanced Surveillance Group at NICTA's Queensland Laboratory. The research we are working on is automating a lot of the surveillance tasks, so for example tracking of people across multiple cameras.

Tell us about your open source software

Conrad: Armadillo is a C++ linear algebra library, in other words it's a library for matrix mathematics. It's used for running a lot of computational expensive experiments and also converting research code into commercial quality code.

Why open source?

Conrad: The main reason we went down the open source path is that open source software allows contributions from people all around the world, which quickly helps to improve the software. Another reason is that it's a way for us to give back to the community, because we base a lot of our research on other open source software.