Visualising wildlife tracking: A usable surface visualisation
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Within the field of biology research there is a focus on gathering data and observations on animals in order to gain an understanding of their interactions with each other and the environment. Visualising tracking data is a non-trivial problem; to work towards solving this problem this research proposes the development of a novel interactive surface visualisation of animal movement and their environment. Animal tracking data will be gathered via collared GPS (Global Positioning System) tracking and direct observation. Survey data of the environment will be captured via a fixed-wing Unmanned Aerial Vehicle (UAV) and satellite imagery obtained from the South African National Space Agency (SANSA).

The Golden Gate Highlands National Park is an area that is predominantly grassland with pockets of sheltered woodland. The park has a regular fire season and are in the process improving their wildlife management and fire risk assessment plans. These plans can be enhanced using the proposed surface visualisation which will provide inform on the fire ecology of the area and its effect on wildlife.

For more information: Refer to Mr Dollman's profile listed under Researchers/Project leaders