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Automatic Detection of the Tracks of Wild Animals in tl Remote Sensing Images and Its Use

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Abstract

While the human population continues to grow and the economy is a is decreasing in the wake of land development, for instance. Howev essential for humans to obtain ecosystem services. Therefore it is rebiodiversity and its sustainable development. Wildlife monitoring is a preservation. Recently we can obtain the accurate position of wildlife Positioning System) telemetry. However the use of telemetry is allow

of wildlife. Therefore it is expected to increase the ecological knowl constructing the system which obtains ecological information from re-We developed DTR algorithm which is for computer aided detection snow using high spatial resolution remote sensing images. DTR algoto find out directly the tracks by visually examination of remote sens overlooking the tracks. This time we apply DTR algorithm to the aer Sarufutsu in Hokkaido. And we distinguished species which left the visual examination and discriminant analysis based on field investiga which left detected tracks were interpreted as sika deer (Cervus Ni according to length and width of one set of the footprints. Also we density of target animals by applying INTGEP (Intersection Points on Geometrical Probability) method to lengths of sika deer's tracks. footprints from the DTR algorithm and from visually examination pr footprints in the snow could be detected using the DTR algorithm. I detection of the tracks in the snow in remote sensing images is possi algorithm.

Keywords: Wild animals, tracks, DTR, INTGEP, sika deer (Cervi

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