

Development of a Deer Deterrent Equipment for the Mitigation of the Deer-Train Collisions

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Deer-train collisions have become a serious problem in Japan. To mitigate the collisions, we compose a deterrent sound which consists of a deer alarm call and vocalization of a dog. It is observed that playing the deterrent sound against deer being around track from a train resulted in a 30% increase of the frequency which deer were running away from track. We also developed an equipment for automatic playing of the deterrent sound from trains when they are in the designated sections where the collisions happen at high frequency.