

가축 소음피해특성 분석에 관한 사례연구 -환경분쟁조정사례를 중심으로-

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A case study on the analysys of the noise damage charaterization of livestock

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Key Words : Livestock(가축), Noise Damage(소음 피해), Regression Analysis(회귀분석)

Abstract : Recently, the noise damage cases of livestock are increasing rapidly. The cases related to the livestock damage were occupied 20% of noise and vibration dispute intervention cases from 1991 to 2001. Of this results, 34%(16/38) are relative to pig, 27%(13/38) to domestic fowl and 20%(9/38) to cattle. The results of regression analysis of between the approval of damage rates (ADR) and a noise level by livestock have been derived that pigs was highly sensitive. In case of cattle, the regression model to apply the ADR according to the appraised noise level was made, but it needs to be complemented later.

운율 특성 벡터와 가우시안 혼합 모델을 이용한 감정인식

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Emotion Recognition using Prosodic Feature Vector and Gaussian Mixture Model

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Key Words : Emotion Recognition (감정 인식), Pitch (피치), Energy (에너지), Characteristic Vector (특징 벡터), HMM (은닉 마코프 모델).

Abstract : This paper describes the emotion recognition algorithm using HMM(Hidden Markov Model) method. The relation between the mechanic system and the human has just been unilateral so far. This is the why people don't want to get familiar with multi-service robots. If the function of the emotion recognition is granted to the robot system, the concept of the mechanic part will be changed a lot. Pitch and Energy extracted from the human speech are good and important factors to classify the each emotions, which are called prosodic features. There are some methods to arrange the trend of character followed by specific emotion. HMM is the powerful and effective theory among them to construct the statistical model with characteristic vector which is made up with the mixture of prosodic features