

## عنوان مقاله:

Investigation of Settlement and Heave Induced by Pile Driving

## محل انتشار:

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## خلاصه مقاله:

Impact hammers and vibratory drivers are used for piles and sheet piles installation. Dynamic loads force piles to vibrate and penetrate into the ground that result in soil displacements and vibrations around a pile. The soil movements may produce settlements in sandy soils, heave and lateral displacement toward the existing nearby foundations in clay soils. The most common factor for assessment of ground vibrations during the pile driving is peak particle velocity, PPV. The aim of this research is presenting the relation between PPV resulted from pile driving and its effects, like settlement in sandy soils and heave in clays. For this purpose, a data bank by collection of case histories which are including the properties of pile driving system -soil, pile, hammer- and the effects of pile driving has been prepared. Then, the important factors influenced on heave and settlement have been investigated

## کلمات کلیدی:

Pile driving, Settlement, Heave, PPV

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/165705>

