

Direction characteristics of strong ground motions during the 2000 Tottori-ken Seibu earthquake

Katsuaki Konno[1], Yoshitaka Murono[2]

[1] Civil Eng., Shibaura Inst. Tech., [2] RTRI

<http://www.db.shibaura-it.ac.jp/eq-net/>

There are reports that the predominant direction of strong ground motion appeared or the directions of collapsed structures corresponded to predominant directions of strong ground motion. If predominant directions of strong ground motion strongly depend on source characteristics, we can predict the predominant direction of strong ground motion for an assumed earthquake fault. Therefore, we can make seismic zonation maps rationally. In this study, we introduce a directional response spectrum, we examine the characteristics of directions of strong ground motion of the 2000 Tottori-ken Seibu earthquake at 142 K-net stations with the directional response spectrum.

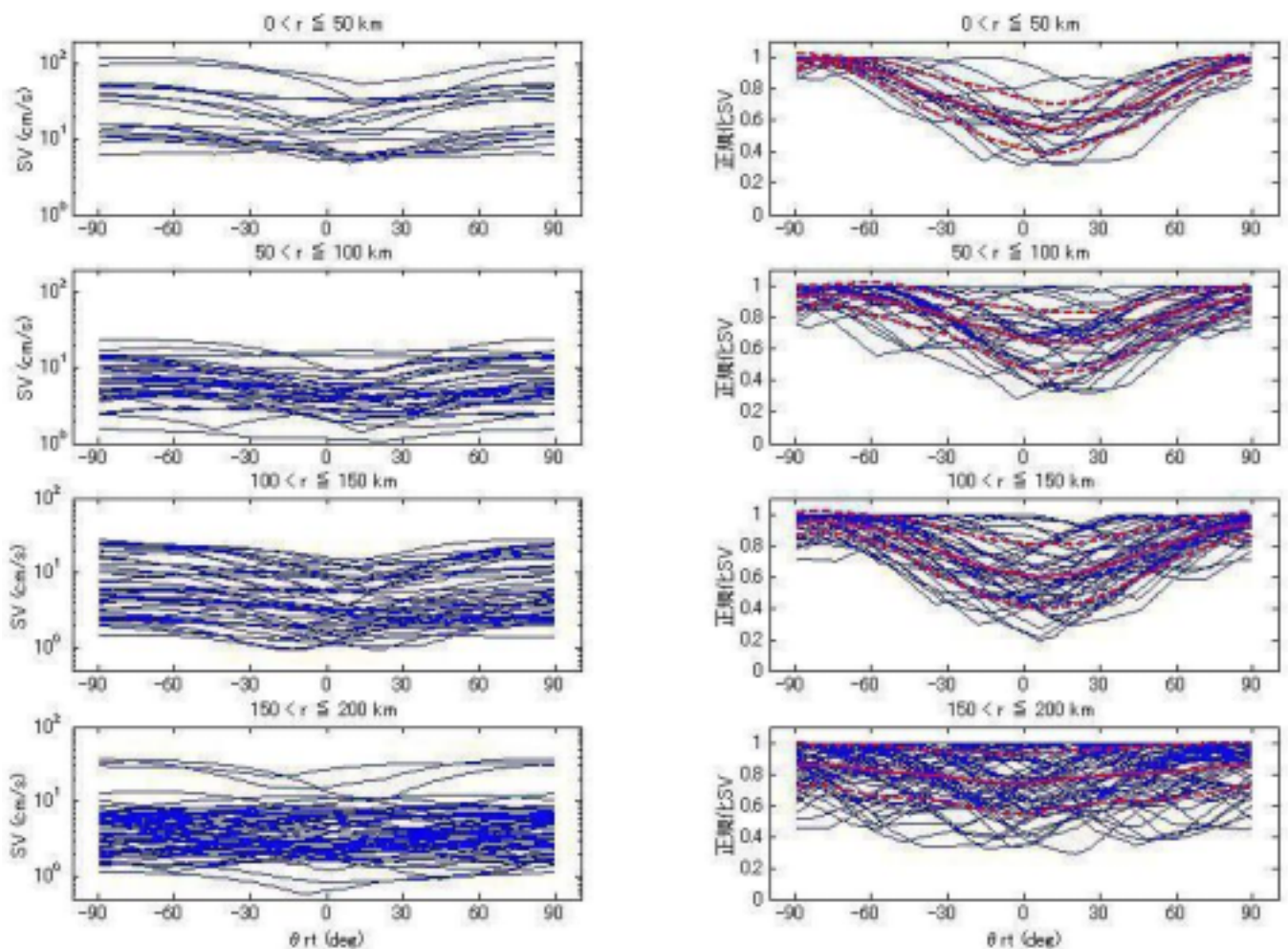


図1 SVおよび正規化したSVと θ_{rt} の関係(右側の図の太実線(赤色)は平均値、細線(赤色)は平均値±標準偏差を示している)