Supplementary Material 5. Four interaction map pairs based on latent space item response model applied to each LES and BDI II items by four subgroups. (Male group under 50, Male group over 50, Female group under 50, Female group over 50)


Figure 1: The numbers and alphabet letters in two interaction maps represent the latent positions of items of SLE and BDI II, respectively. The dots represent the latent positions of respondents. Latent space item response model was applied separately to each survey item for $\leq 50$ male group.


Figure 2: The numbers and alphabet letters in two interaction maps represent the latent positions of items of SLE and BDI II, respectively. The dots represent the latent positions of respondents. Latent space item response model was applied separately to each survey item for $\geq 50$ male group.


Figure 3: The numbers and alphabet letters in two interaction maps represent the latent positions of items of SLE and BDI II, respectively. The dots represent the latent positions of respondents. Latent space item response model was applied separately to each survey item for $\leq 50$ female group.


Figure 4: The numbers and alphabet letters in two interaction maps represent the latent positions of items of SLE and BDI II, respectively. The dots represent the latent positions of respondents. Latent space item response model was applied separately to each survey item for $\geq 50$ female group.

