

Supplementary material

Table.1. Items in the full-scale Big Five Inventory and their corresponding loadings in the factor analysis for training set.

| | |
|----|--|
| 1 | I see myself as someone who is talkative |
| 2 | I see myself as someone who tends to find fault with others |
| 3 | I see myself as someone who does a thorough job |
| 4 | I see myself as someone who is depressed, blue |
| 5 | I see myself as someone who is original, comes up with new ideas |
| 6 | I see myself as someone who is reserved |
| 7 | I see myself as someone who is helpful and unselfish with others |
| 8 | I see myself as someone who can be somewhat careless |
| 9 | I see myself as someone who is relaxed, handles stress well |
| 10 | I see myself as someone who is curious about many different things |
| 11 | I see myself as someone who is full of energy |
| 12 | I see myself as someone who starts quarrels with others |
| 13 | I see myself as someone who is a reliable worker |
| 14 | I see myself as someone who can be tense |
| 15 | I see myself as someone who is ingenious, a deep thinker |
| 16 | I see myself as someone who generates a lot of enthusiasm |
| 17 | I see myself as someone who has a forgiving nature |
| 18 | I see myself as someone who tends to be disorganized |
| 19 | I see myself as someone who worries a lot |
| 20 | I see myself as someone who has an active imagination |
| 21 | I see myself as someone who tends to be quiet |
| 22 | I see myself as someone who is generally trusting |
| 23 | I see myself as someone who tends to be lazy |
| 24 | I see myself as someone who is emotionally stable, not easily upset |
| 25 | I see myself as someone who is inventive |
| 26 | I see myself as someone who has an assertive personality |
| 27 | I see myself as someone who can be cold and aloof |
| 28 | I see myself as someone who perseveres until the task is finished |
| 29 | I see myself as someone who can be moody |
| 30 | I see myself as someone who values artistic, aesthetic experiences |
| 31 | I see myself as someone who is sometimes shy, inhibited |
| 32 | I see myself as someone who is considerate and kind to almost everyone |
| 33 | I see myself as someone who does things efficiently |
| 34 | I see myself as someone who remains calm in tense situations |
| 35 | I see myself as someone who prefers work that is routine |
| 36 | I see myself as someone who is outgoing, sociable |
| 37 | I see myself as someone who is sometimes rude to others |
| 38 | I see myself as someone who makes plans and follows through with them |
| 39 | I see myself as someone who gets nervous easily |
| 40 | I see myself as someone who likes to reflect, play with ideas |
| 41 | I see myself as someone who has few artistic interests |
| 42 | I see myself as someone who likes to cooperate with others |
| 43 | I see myself as someone who is easily distracted |

| | Extraversion | Neuroticism | Conscientiousness | Openness | Agreeableness |
|----|--------------|-------------|-------------------|----------|---------------|
| 1 | -0.7743 | 0.1834 | -0.0583 | -0.0007 | 0.0792 |
| 2 | -0.0977 | 0.2146 | 0.1412 | 0.0428 | -0.4872 |
| 3 | 0.0587 | 0.1516 | 0.6922 | 0.0562 | 0.0103 |
| 4 | 0.0973 | 0.5781 | -0.0937 | 0.0674 | -0.0582 |
| 5 | -0.0252 | -0.1178 | 0.0140 | 0.7314 | -0.0961 |
| 6 | 0.8436 | -0.0001 | 0.0728 | 0.0793 | 0.0043 |
| 7 | -0.0194 | 0.0914 | 0.1303 | 0.0815 | 0.5184 |
| 8 | -0.0935 | -0.0070 | -0.5349 | 0.1072 | -0.1084 |
| 9 | 0.0926 | -0.7849 | -0.0443 | 0.1126 | 0.0070 |
| 10 | 0.0184 | -0.0435 | -0.0170 | 0.4936 | 0.0070 |
| 11 | -0.2479 | -0.2118 | 0.1875 | 0.1857 | 0.0243 |
| 12 | -0.2125 | 0.1449 | -0.0252 | 0.0776 | -0.5031 |
| 13 | 0.0419 | 0.0670 | 0.5589 | -0.0321 | 0.1448 |
| 14 | 0.0010 | 0.7137 | 0.1398 | 0.0687 | -0.1318 |
| 15 | 0.1726 | 0.0189 | 0.0798 | 0.6347 | -0.0827 |
| 16 | -0.4347 | -0.0120 | 0.1012 | 0.3016 | 0.1528 |
| 17 | 0.0303 | -0.0686 | -0.1416 | 0.0551 | 0.5766 |
| 18 | -0.0075 | -0.0104 | -0.6883 | 0.1478 | 0.0707 |
| 19 | -0.0003 | 0.8324 | 0.0768 | -0.0050 | 0.1114 |
| 20 | -0.0231 | 0.1552 | -0.0857 | 0.6027 | 0.0539 |
| 21 | 0.9175 | -0.0586 | 0.0567 | 0.0905 | 0.0494 |
| 22 | -0.0422 | -0.0002 | -0.0118 | -0.0240 | 0.4276 |
| 23 | 0.0955 | -0.0036 | -0.5726 | 0.0387 | -0.0833 |
| 24 | 0.1211 | -0.7208 | 0.0179 | 0.0636 | 0.0355 |
| 25 | 0.0689 | -0.1484 | 0.0107 | 0.7686 | -0.0929 |
| 26 | -0.4550 | -0.1219 | 0.1904 | 0.2175 | -0.2974 |
| 27 | 0.3400 | -0.0672 | 0.0206 | 0.1532 | -0.5447 |
| 28 | 0.0690 | 0.0667 | 0.6497 | 0.1127 | 0.0239 |
| 29 | 0.0204 | 0.4268 | -0.0170 | 0.0716 | -0.3164 |
| 30 | 0.0037 | 0.1686 | -0.0490 | 0.4235 | 0.2045 |
| 31 | 0.7341 | 0.1567 | -0.0198 | 0.0770 | 0.0737 |
| 32 | -0.0034 | 0.1475 | 0.0637 | 0.0347 | 0.6975 |
| 33 | 0.0555 | -0.0163 | 0.6448 | 0.0909 | -0.0269 |
| 34 | 0.1092 | -0.5393 | 0.1086 | 0.1841 | 0.0432 |
| 35 | 0.0875 | 0.2107 | 0.1255 | -0.2713 | 0.0622 |
| 36 | -0.7132 | -0.0334 | -0.0284 | 0.0070 | 0.1552 |
| 37 | -0.1045 | 0.0344 | -0.0586 | 0.1159 | -0.6186 |
| 38 | -0.0398 | 0.0011 | 0.5979 | 0.0539 | -0.0298 |
| 39 | 0.1854 | 0.6612 | -0.0169 | -0.0597 | 0.1369 |
| 40 | 0.1583 | 0.0228 | -0.0267 | 0.5887 | 0.0677 |
| 41 | 0.0062 | -0.0772 | 0.0391 | -0.3299 | -0.1383 |
| 42 | -0.1333 | 0.0635 | 0.0737 | -0.0391 | 0.4896 |
| 43 | -0.0809 | 0.1479 | -0.5319 | 0.0944 | 0.0138 |

| | | | | | |
|----|---------|--------|---------|--------|--------|
| 44 | -0.0080 | 0.0908 | -0.0416 | 0.4125 | 0.0955 |
|----|---------|--------|---------|--------|--------|

Table.2. The 10-item version of the Big Five proposed by Rammstedt et al. (2007).

-
- ...someone who tends to find fault with others.
 - ...see myself as someone who does a thorough job.
 - ...see myself as someone who is reserved.
 - ...see myself as someone who is relaxed, handles stress well.
 - ...see myself as someone who has an active imagination.
 - ...see myself as someone who is generally trusting.
 - ...see myself as someone who tends to be lazy.
 - ...see myself as someone who values artistic, aesthetic experiences.
 - ...see myself as someone who is outgoing, sociable.
 - ...see myself as someone who gets nervous easily.
-

Table.3. The 5-item version of the Big Five selected based on the heaviest loading question for each factor.

-
- ...see myself as someone who tends to be quiet.
 - ...see myself as someone who worries a lot.
 - ...see myself as someone who does a thorough job.
 - ...see myself as someone who is inventive.
 - ...see myself as someone who is considerate and kind to almost everyone.
-