Table 1: Sample profile

|  |  |
| --- | --- |
| **Gender** | % (N) |
| Male | 36.5% (N = 248) |
| Female | 63.5% (N = 432) |
| **Age** |  |
| Between 50 and 59 | 62.5%(N=425) |
| Between 60 and 69 | 29.9% (N = 203) |
| Over 70 | 7.6% (N = 52) |
| **Education** |  |
| Elementary school | 1.8% (N = 12)  |
| High school | 23.7% (N = 161) |
| College and university | 58.1% (N = 395) |
| Postgraduate and above | 16.5% (N = 112) |
| **Income (monthly)** | 32.4% (N=278) |
| Below 20,000 NT dollars | 12.4% (N=84) |
| Between 20,001 and 40,000 NT dollars | 25.4% (N=173) |
| Between 40,001 and 60,000 NT dollars | 27.9% (N=190) |
| Over 60,000 NT dollars | 34.3% (N=233) |
| **How do you acquire your smartphone?** |  |
| Purchase by myself | 75.6% (N=514) |
| From sons and daughters | 14.6% (N=99) |
| From siblings | 1.5% (N=10) |
| From friends and relatives | 2.8% (N=19) |
| Other  | 5.6% (N=38) |
| **Most use scenarios on smartphones** |  |
| Line | 92.8% (N=631) |
| Play Games | 21.0% (N=143) |
| Facebook | 50.9% (N=346) |
| Watch YouTube | 43.1% (N=293) |
| Music | 40.4% (N=275) |
| Phone calls | 60.4% (N=411) |
| Take photos and videos | 65.0% (N=442) |
| Watch news | 49.3% (N=335) |
| Online shopping | 30.4% (N=207) |
| Mobile payment | 16.2% (N=110) |
| Searching  | 54.9% (N=373) |
| others | 7.6% (N=52) |

Table 2: validity and reliability of the constructs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Construct | items | loadings | α | rho\_A | CR | AVE |
| Entertainment-driven (EN) | EN1 | 0.822 | 0.835 | 0.886 | 0.880 | 0.560 |
| EN2 | 0.445 |
| EN3 | 0.618 |
| EN4 | 0.873 |
| EN5 | 0.726 |
| EN6 | 0.904 |
| Sociability-driven (SO) | SO1 | 0.617 | 0.848 | 0.864 | 0.888 | 0.571 |
| SO2 | 0.828 |
| SO3 | 0.841 |
| SO4 | 0.790 |
| SO5 | 0.760 |
| SO6 | 0.673 |
| Emotion regulation (ER) | ER1 | 0.827 | 0.94 | 0.941 | 0.953 | 0.771 |
| ER2 | 0.874 |
| ER3 | 0.897 |
| ER4 | 0.924 |
| ER5 | 0.918 |
| ER6 | 0.822 |
| SUD | SUD3 | 0.787 | 0.868 | 0.875 | 0.905 | 0.657 |
| SUD4 | 0.869 |
| SUD5 | 0.884 |
| SUD6 | 0.773 |
| SUD7 | 0.734 |
| Nomophobia (NO) | NO1 | 0.770 | 0.925 | 0.926 | 0.94 | 0.691 |
| NO2 | 0.836 |
| NO3 | 0.797 |
| NO4 | 0.829 |
| NO5 | 0.859 |
| NO6 | 0.866 |
| NO7 | 0.857 |
| Life satisfaction (LS) | LS1 | 0.803 | 0.845 | 0.844 | 0.872 | 0.578 |
| LS2 | 0.775 |
| LS3 | 0.740 |
| LS4 | 0.631 |
| LS5 | 0.837 |

Table 3: Discriminant validity

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Construct | SUD | ER | EN | LS | NO | SO |
| SUD | 0.811 |  |  |  |  |  |
| ER | 0.477 | 0.878 |  |  |  |  |
| EN | 0.397 | 0.541 | 0.749 |  |  |  |
| LS | 0.155 | 0.214 | 0.193 | 0.760 |  |  |
| NO | 0.805 | 0.471 | 0.336 | 0.175 | 0.831 |  |
| SO | 0.423 | 0.574 | 0.555 | 0.263 | 0.411 | 0.756 |

Table 4: the results of hypotheses examination

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | path | β | SE | t-sta | P | Support |
| H2 | Sociability → Nomophobia | 0.191 | 0.040 | 4.763 | 0\*\*\* | Yes |
| H3 | Entertainment → Nomophobia | 0.049 | 0.042 | 1.158 | 0.247 | No |
| H4 | Emotion regulation → Nomophobia | 0.335 | 0.043 | 7.853 | 0\*\*\* | Yes |
| H5 | Nomophobia → SUD | 0.805 | 0.017 | 48.273 | 0\*\*\* | Yes |
| H6 | Nomophobia→ Life satisfaction | 0.175 | 0.032 | 5.476 | 0\*\*\* | Yes |

Note: p < 0.1, p < 0.05\*, p < 0.01\*\*, p < 0.001\*\*\*