

Supplementary materials for:

**Types of temperament and the value and meaningful
orientations associated with them**

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Table S1. Mean of indicators for each of the 6 clusters, the results of one-way ANOVA and multiple comparisons by Tukey's test

Variables	Average values by clusters						Tukey's test															The results of one-way ANOVA	
	1	2	3	4	5	6	2-1	3-1	4-1	5-1	6-1	3-2	4-2	5-2	6-2	4-3	5-3	6-3	5-4	6-4	6-5		
Temperament Properties																							
Erg_M	45.83	35.92	54.74	56.09	45.86	59.30	***	***	***	-	***	***	***	***	***	-	***	*	***	-	***	F(5, 505) = 69.44, p < 0.001	
Erg_I	42.79	45.97	52.56	52.18	48.87	63.52	-	***	***	***	***	**	**	-	***	-	*	***	*	***	***	F(5, 505) = 33.85, p < 0.001	
Erg_S	45.16	36.59	48.17	56.77	50.58	60.70	***	-	***	***	***	***	***	***	***	***	-	***	***	-	***	F(5, 505) = 57.21, p < 0.001	
Pls_M	44.74	43.67	51.68	54.10	48.07	60.70	-	***	***	-	***	***	***	-	***	-	*	***	***	**	***	F(5, 505) = 26.09, p < 0.001	
Pls_I	43.67	40.92	48.39	55.15	50.77	63.82	-	**	***	***	***	***	***	***	***	***	-	***	**	***	***	F(5, 505) = 48.35, p < 0.001	
Pls_S	45.70	39.00	44.11	57.25	54.70	52.24	***	-	***	***	**	**	***	***	***	***	***	***	-	*	-	F(5, 505) = 60.24, p < 0.001	
Tmp_M	45.08	34.13	51.70	58.13	46.98	62.30	***	***	***	-	***	***	***	***	***	***	***	***	***	*	***	F(5, 505) = 103.76, p < 0.001	
Tmp_I	42.21	40.15	52.08	55.66	47.64	67.79	-	***	***	***	***	***	***	***	***	**	***	***	***	***	***	F(5, 505) = 94.58, p < 0.001	
Tmp_S	45.45	39.54	46.21	58.31	49.14	63.45	**	-	***	**	***	***	***	***	***	***	*	***	***	*	***	F(5, 505) = 72.3, p < 0.001	
Emt_M	48.12	60.28	47.19	45.65	58.09	35.15	***	-	-	***	***	***	***	-	***	-	***	***	***	***	***	F(5, 505) = 84.01, p < 0.001	
Emt_I	48.36	60.67	47.97	45.50	56.41	35.21	***	-	-	***	***	***	***	*	***	-	***	***	***	***	***	F(5, 505) = 63.97, p < 0.001	
Emt_S	48.61	60.38	48.09	46.15	56.98	35.30	***	-	-	***	***	***	***	-	***	-	***	***	***	***	***	F(5, 505) = 64.69, p < 0.001	
PAI	44.07	34.54	53.49	57.65	46.08	63.33	***	***	***	-	***	***	***	***	***	***	***	***	***	***	***	F(5, 505) = 121.87, p < 0.001	
IAI	40.98	40.46	51.40	55.33	48.75	68.82	-	***	***	***	***	***	***	***	***	***	*	***	***	***	***	F(5, 505) = 107.01, p < 0.001	
SAI	44.27	35.33	45.36	59.28	51.68	61.24	***	-	***	***	***	***	***	***	***	***	***	***	***	-	***	F(5, 505) = 120.33, p < 0.001	
GAI	41.32	32.95	50.12	59.55	48.39	68.18	***	***	***	***	***	***	***	***	***	***	-	***	***	***	***	F(5, 505) = 351.52, p < 0.001	
GEI	48.20	61.67	47.49	45.29	58.01	33.52	***	-	*	***	***	***	***	-	***	-	***	***	***	***	***	F(5, 505) = 105.24, p < 0.001	
GAdI	44.25	32.41	51.09	59.11	45.52	70.36	***	***	***	-	***	***	***	***	***	***	***	***	***	***	***	F(5, 505) = 390.58, p < 0.001	
Axiological Orientation																							
Clct	46.64	49.72	50.04	51.73	50.14	53.42	-	-	**	-	*	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.62, p = 0.003	
Spr_Sts	47.07	50.9	50.75	50.92	49.86	51.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 2.22, p = 0.051	
Crtv	46.42	49.67	50.07	51.03	50.68	54.39	-	-	*	*	**	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 4.12, p = 0.001	
Life	47.18	47.87	50.67	51.54	49.85	53.94	-	-	*	-	*	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.6, p = 0.003	
Achv	46.45	50.69	50.50	50.86	50.10	53.30	-	*	*	-	**	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.38, p = 0.005	
Trd	48.59	48.46	50.54	50.80	49.42	53.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 1.88, p = 0.096	
Mtr_Wb	46.59	53.21	49.96	50.43	50.82	51.27	**	-	-	*	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.33, p = 0.006	
Indv	46.23	47.54	50.49	52.12	50.27	54.52	-	*	***	*	**	-	-	-	*	-	-	-	-	-	-	F(5, 505) = 5.59, p < 0.001	

Prf	45.50	50.72	51.62	51.44	49.67	52.61	-	***	***	*	**	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 5.45, p < 0.001
Edc	46.01	50.95	50.92	50.98	50.12	53.52	-	**	**	*	**	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 4.32, p = 0.001
Fml	47.14	49.62	50.76	50.47	50.25	54.55	-	-	-	-	**	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.09, p = 0.009
Scl_Lf	47.47	47.97	49.21	52.02	50.21	54.09	-	-	*	-	*	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.76, p = 0.002
Lsr	46.86	50.23	49.45	51.44	50.65	53.03	-	-	*	-	*	-	-	-	-	-	-	-	-	-	-	-	F(5, 505) = 3.12, p = 0.009
Meaning in Life																							
Prp	48.16	40.74	52.07	54.29	46.82	58.06	***	*	***	-	***	***	***	**	***	-	***	*	***	-	***	-	F(5, 505) = 23.41, p < 0.001
Prc	47.64	38.33	50.80	55.19	48.02	58.33	***	-	***	-	***	***	***	***	***	**	-	***	***	-	***	-	F(5, 505) = 29.36, p < 0.001
Prf	48.35	40.64	51.38	54.68	46.84	58.09	***	-	***	-	***	***	***	**	***	-	**	**	***	-	***	-	F(5, 505) = 23.89, p < 0.001
Slf_LC	47.61	40.13	52.14	55.29	47.09	58.76	***	**	***	-	***	***	***	***	***	-	***	**	***	-	***	-	F(5, 505) = 29.83, p < 0.001
Life_LC	47.82	44.44	51.18	54.47	46.19	59.18	-	-	***	-	***	**	***	-	***	-	***	***	***	-	***	-	F(5, 505) = 20.83, p < 0.001
Mng_Life	47.37	39.95	51.25	55.27	46.63	59.91	***	*	***	-	***	***	***	**	***	*	**	***	***	-	***	-	F(5, 505) = 32.36, p < 0.001
Sns_Chrc	47.37	41.13	50.91	55.04	46.88	60.36	**	-	***	-	***	***	***	**	***	**	**	***	***	*	***	-	F(5, 505) = 29.18, p < 0.001

Note.

Temperament Properties: Erg_M – Motor Ergonicity, Erg_I – Intellectual Ergonicity, Erg_S – Social Ergonicity, Pls_M – Motor Plasticity, Pls_I – Intellectual Plasticity, Pls_S – Social Plasticity, Tmp_M – Motor Tempo, Tmp_I – Intellectual Tempo, Tmp_S – Social Tempo, Emt_M – Motor Emotionality, Emt_I – Intellectual Emotionality, Emt_S – Social Emotionality, PAI – Psychomotor Activity Index, IAI – Intellectual Activity Index, SAI – Social Activity Index, GAI – General Activity Index, GEI – General Emotionality Index, GAdI – General Adaptability Index;

Axiological Orientation: Clct – Value of Collectivity, Spr_Sts – Value of Spiritual Satisfaction, Crtv – Value of Creativity, Life – Value of Life, Achv – Value of Achievement, Trd – Value of Tradition, Mtr_Wb – Value of Material Well-being, Indv – Value of Individuality, Prf – Sphere of Profession, Edc – Sphere of Education, Fml – Sphere of Family, Scl_Lf – Sphere of Social Life, Lsr – Sphere of Leisure;

Meaning in Life: Prp – Purpose in Life, Prc – Life Process, Prf – Life Performance, Slf_LC – Locus of Control “Self”, Life_LC – Locus of Control “Life”, Mng_Life – Meaningfulness of Life; Sns_Chrc – Sense of Coherence;

* – p < 0.05, ** – p < 0.01, *** – p < 0.001.

Table S2. Mean of indicators for each of the 3 clusters, the results of one-way ANOVA and multiple comparisons by Tukey's test

Variables	Average values by clusters			Tukey's test			The results of one-way ANOVA
	1	2	3	2-1	3-1	3-2	
Temperament Properties							
Erg_M	50.62	43.57	56.83	***	***	***	F(2, 508) = 92.97, p < 0.001
Erg_I	48.05	48.20	54.8	-	***	***	F(2, 508) = 25.11, p < 0.001
Erg_S	46.78	47.36	57.68	-	***	***	F(2, 508) = 75.7, p < 0.001
Pls_M	48.47	47.05	55.62	-	***	***	F(2, 508) = 36.58, p < 0.001
Pls_I	46.21	48.50	57.15	*	***	***	F(2, 508) = 66.44, p < 0.001
Pls_S	44.84	51.08	56.10	***	***	***	F(2, 508) = 68.68, p < 0.001
Tmp_M	48.64	44.02	59.09	***	***	***	F(2, 508) = 141.67, p < 0.001
Tmp_I	47.52	45.91	58.46	-	***	***	F(2, 508) = 99.62, p < 0.001
Tmp_S	45.86	46.92	59.50	-	***	***	F(2, 508) = 136.5, p < 0.001
Emt_M	47.62	58.60	43.22	***	***	***	F(2, 508) = 166.28, p < 0.001
Emt_I	48.15	57.39	43.13	***	***	***	F(2, 508) = 122.09, p < 0.001
Emt_S	48.33	57.77	43.64	***	***	***	F(2, 508) = 122.13, p < 0.001
PAI	49.13	43.41	58.97	***	***	***	F(2, 508) = 148.04, p < 0.001
IAI	46.58	46.84	58.44	-	***	***	F(2, 508) = 97.9, p < 0.001
SAI	44.85	47.91	59.73	**	***	***	F(2, 508) = 158.01, p < 0.001
GAI	46.05	44.83	61.55	-	***	***	F(2, 508) = 279.53, p < 0.001
GEI	47.81	58.85	42.57	***	***	***	F(2, 508) = 193.9, p < 0.001
GAdI	47.93	42.5	61.71	***	***	***	F(2, 508) = 358.94, p < 0.001
Axiological Orientation							
Clct	48.47	50.04	52.12	-	**	-	F(2, 508) = 5.67, p = 0.004
Spr_Sts	49.05	50.1	51.15	-	-	-	F(2, 508) = 1.87, p = 0.156
Crtv	48.38	50.44	51.80	-	**	-	F(2, 508) = 5.2, p = 0.006
Life	49.06	49.39	52.09	-	*	*	F(2, 508) = 4.44, p = 0.012
Achv	48.63	50.24	51.43	-	*	-	F(2, 508) = 3.41, p = 0.034
Trd	49.64	49.2	51.52	-	-	-	F(2, 508) = 2.34, p = 0.097
Mtr_Wb	48.40	51.37	50.62	*	-	-	F(2, 508) = 4.46, p = 0.012
Indv	48.52	49.64	52.67	-	***	*	F(2, 508) = 7.39, p = 0.001

Prf	48.79	49.91	51.71	-	*	-	F(2, 508) = 3.56, p = 0.029
Edc	48.65	50.31	51.57	-	*	-	F(2, 508) = 3.67, p = 0.026
Fml	49.09	50.10	51.41	-	-	-	F(2, 508) = 2.24, p = 0.107
Scl_Lf	48.40	49.69	52.50	-	***	*	F(2, 508) = 7.28, p = 0.001
Lsr	48.25	50.56	51.80	-	**	-	F(2, 508) = 5.74, p = 0.003
Meaning in Life							
Prp	50.27	45.42	55.16	***	***	***	F(2, 508) = 42.9, p < 0.001
Prc	49.34	45.78	55.92	**	***	***	F(2, 508) = 47.12, p < 0.001
Prf	49.98	45.41	55.47	***	***	***	F(2, 508) = 46.22, p < 0.001
Slf_LC	50.05	45.49	56.09	***	***	***	F(2, 508) = 53.12, p < 0.001
Life_LC	49.62	45.79	55.56	***	***	***	F(2, 508) = 43.77, p < 0.001
Mng_Life	49.46	45.09	56.34	***	***	***	F(2, 508) = 60.22, p < 0.001
Sns_Chrc	49.27	45.55	56.27	***	***	***	F(2, 508) = 55.12, p < 0.001

Note.

Temperament Properties: Erg_M – Motor Ergonicity, Erg_I – Intellectual Ergonicity, Erg_S – Social Ergonicity, Pls_M – Motor Plasticity, Pls_I – Intellectual Plasticity, Pls_S – Social Plasticity, Tmp_M – Motor Tempo, Tmp_I – Intellectual Tempo, Tmp_S – Social Tempo, Emt_M – Motor Emotionality, Emt_I – Intellectual Emotionality, Emt_S – Social Emotionality, PAI – Psychomotor Activity Index, IAI – Intellectual Activity Index, SAI – Social Activity Index, GAI – General Activity Index, GEI – General Emotionality Index, GAdI – General Adaptability Index;

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* – p < 0.05, ** – p < 0.01, *** – p < 0.001.

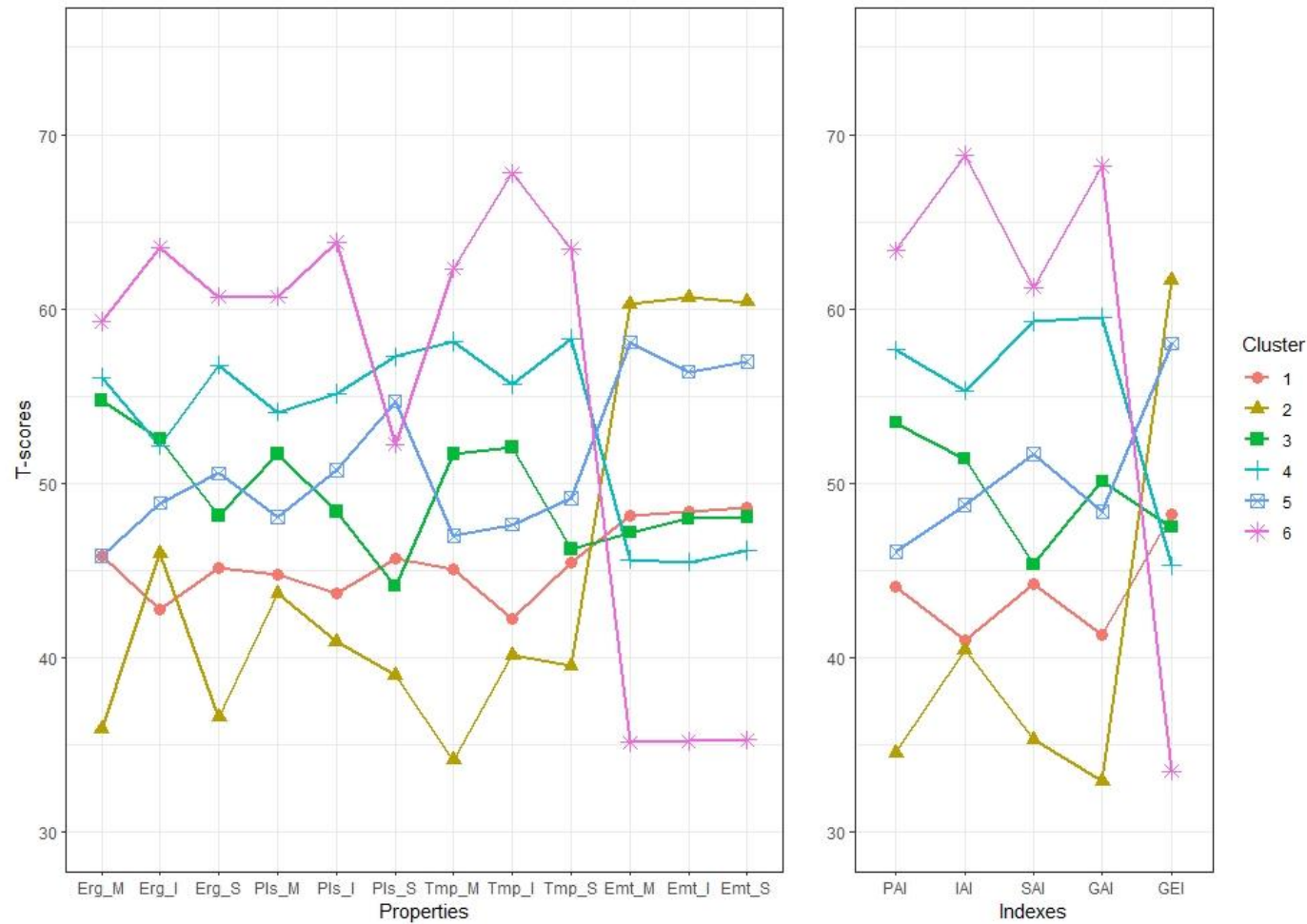


Figure S1. The graph of means of properties and indices of the OFDPI for the 6-cluster option

Note.

Temperament Properties: Erg_M – Motor Ergonicity, Erg_I – Intellectual Ergonicity, Erg_S – Social Ergonicity, Pls_M – Motor Plasticity, Pls_I – Intellectual Plasticity, Pls_S – Social Plasticity, Tmp_M – Motor Tempo, Tmp_I – Intellectual Tempo, Tmp_S – Social Tempo, Emt_M – Motor Emotionality, Emt_I – Intellectual Emotionality, Emt_S – Social Emotionality, PAI – Psychomotor Activity Index, IAI – Intellectual Activity Index, SAI – Social Activity Index, GAI – General Activity Index, GEI – General Emotionality Index, GAdI – General Adaptability Index.

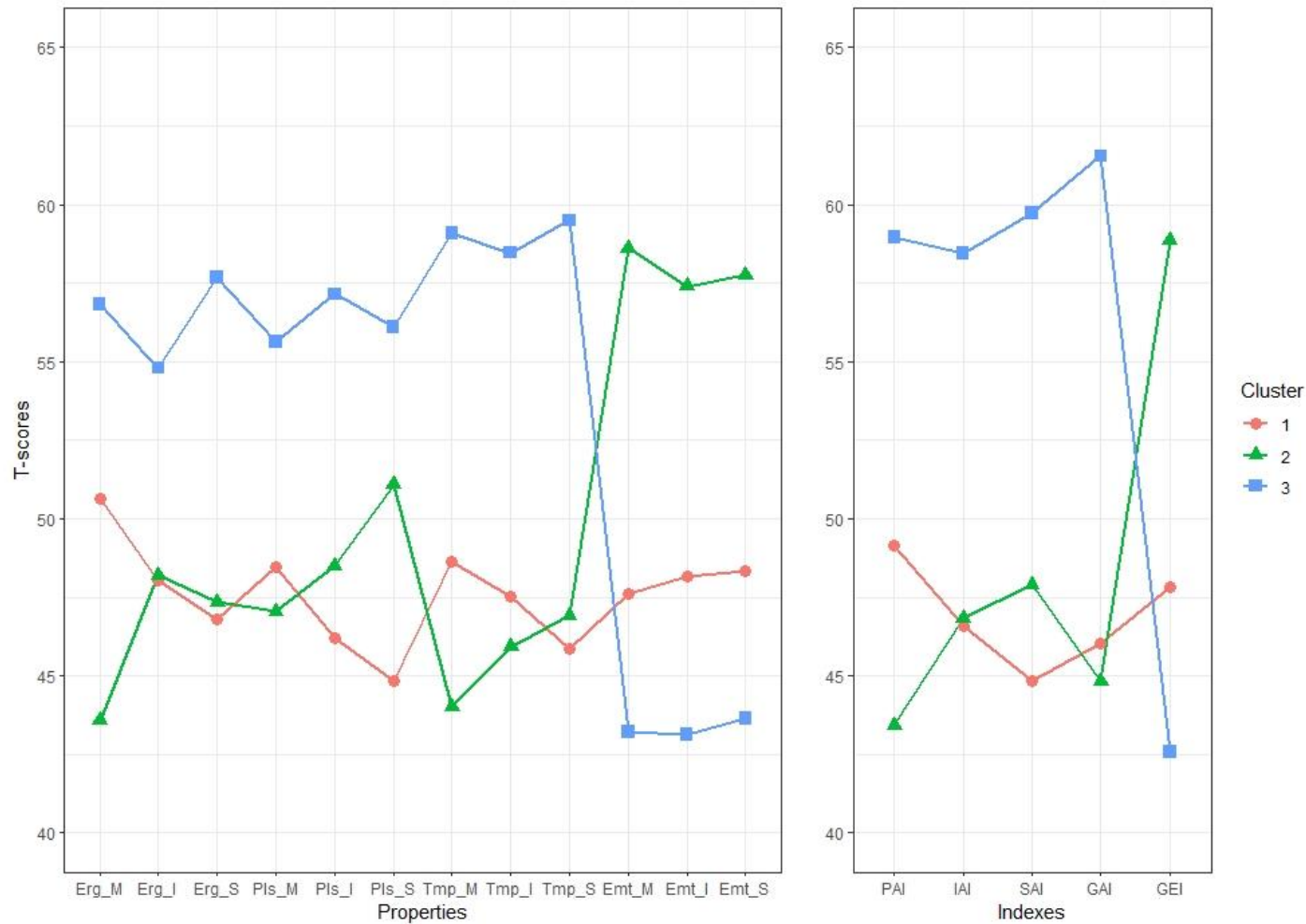


Figure S2. The graph of means of properties and indices of the OFDPI for the 3-cluster option

Note.

Temperament Properties: Erg_M – Motor Ergonicity, Erg_I – Intellectual Ergonicity, Erg_S – Social Ergonicity, Pls_M – Motor Plasticity, Pls_I – Intellectual Plasticity, Pls_S – Social Plasticity, Tmp_M – Motor Tempo, Tmp_I – Intellectual Tempo, Tmp_S – Social Tempo, Emt_M – Motor Emotionality, Emt_I – Intellectual Emotionality, Emt_S – Social Emotionality, PAI – Psychomotor Activity Index, IAI – Intellectual Activity Index, SAI – Social Activity Index, GAI – General Activity Index, GEI – General Emotionality Index, GAdI – General Adaptability Index.