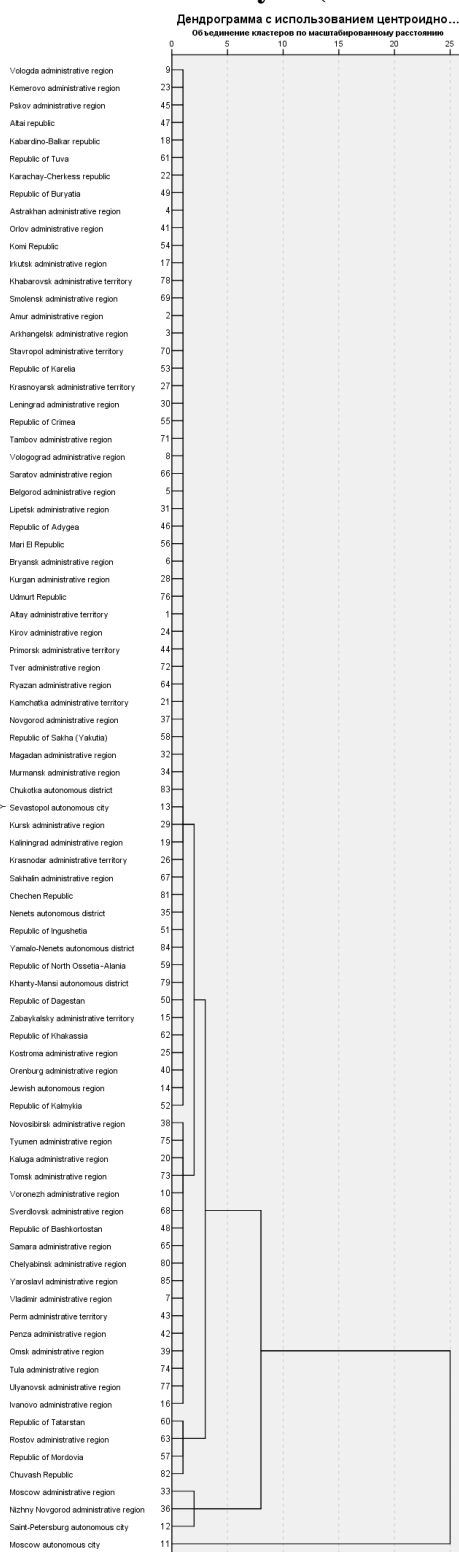


**Appendices to the article V. Yu. Pashkus, V. Terekhov, M. Yu. Shcheglov, A. V. Koshkin
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 Studies (2024. Vol. 32, no. 2. Pp. 242–262)**

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Appendices 1. The dendrogram of cluster analysis (distribution of regions into clusters)



Source: Compiled by the authors

<https://doi.org/10.15507/2413-1407.127.032.202402.251>

Appendices 2. Variable correlation table

		Inventive activity Coefficient	PHQW	HQWRS	% of science in GRP	I-activity level	Average costs on R&D per 1 organization	% of employed with high education	Number of computers per 100 employees	Internet users per 100 citizens
Inventive activity Coefficient	Pearson Correlation	1	,555**	,581**	,521**	,597**	,424**	,038	,220	,519**
	Value (2 sides)		,000	,000	,000	,000	,000	,739	,053	,000
	N	78	78	78	78	78	78	78	78	78
PHQW	Pearson Correlation	,555**	1	,279*	,411**	,420**	,091	,036	,460**	,345**
	Value (2 sides)	,000		,013	,000	,000	,428	,753	,000	,002
	N	78	78	78	78	78	78	78	78	78
HQWRS	Pearson Correlation	,581**	,279*	1	,766**	,426**	,828**	,159	,308**	,370**
	Value (2 sides)	,000	,013		,000	,000	,000	,164	,006	,001
	N	78	78	78	78	78	78	78	78	78
% of science in GRP	Pearson Correlation	,521**	,411**	,766**	1	,431**	,718**	,013	,365**	,425**
	Value (2 sides)	,000	,000	,000		,000	,000	,910	,001	,000
	N	78	78	78	78	78	78	78	78	78
I-activity level	Pearson Correlation	,597**	,420**	,426**	,431**	1	,347**	-,023	,229*	,368**
	Value (2 sides)	,000	,000	,000	,000		,002	,844	,044	,001

	N	78	78	78	78	78	78	78	78	78
Average costs on R&D per 1 organization	Pearson	,424**	,091	,828**	,718**	,347**	1	,178	,094	,222
	Correlation									
	Value (2 sides)	,000	,428	,000	,000	,002		,119	,413	,051
	N	78	78	78	78	78	78	78	78	78
% of employed with high education	Pearson	,038	,036	,159	,013	-,023	,178	1	,096	-,199
	Correlation									
	Value (2 sides)	,739	,753	,164	,910	,844	,119		,404	,081
	N	78	78	78	78	78	78	78	78	78
Number of computers per 100 employees	Pearson	,220	,460**	,308**	,365**	,229*	,094	,096	1	,133
	Correlation									
	Value (2 sides)	,053	,000	,006	,001	,044	,413	,404		,246
	N	78	78	78	78	78	78	78	78	78
Internet users per 100 citizens	Pearson	,519**	,345**	,370**	,425**	,368**	,222	-,199	,133	1
	Correlation									
	Value (2 sides)	,000	,002	,001	,000	,001	,051	,081	,246	
	N	78	78	78	78	78	78	78	78	78

** The correlation is significant at the 0.01 level (2-side).

* The correlation is significant at the 0.05 level (2-side).

Source: Calculated by the authors.

Appendices 3. Logarithmic variable correlation table

		ln(Inventive activity Coefficient)	ln(% of science in GRP)	ln(I-activity level)	ln(PHQW)	ln(Internet users per 100 citizens)	ln(Average costs on R&D per 1 organization)
ln(Inventive activity Coefficient)	Pearson Correlation	1	,592**	,650**	,436**	,640**	,547**
	Value (2 sides)		,000	,000	,000	,000	,000
	N	78	78	78	78	78	71
ln(% of science in GRP)	Pearson Correlation	,592**	1	,554**	,450**	,472**	,725**
	Value (2 sides)	,000		,000	,000	,000	,000
	N	78	78	78	78	78	71
ln(I-activity level)	Pearson Correlation	,650**	,554**	1	,396**	,442**	,485**
	Value (2 sides)	,000	,000		,000	,000	,000
	N	78	78	78	78	78	71
ln(PHQW)	Pearson Correlation	,436**	,450**	,396**	1	,331**	,220
	Value (2 sides)	,000	,000	,000		,003	,066
	N	78	78	78	78	78	71
ln(Internet users per 100 citizens)	Pearson Correlation	,640**	,472**	,442**	,331**	1	,220
	Value (2 sides)	,000	,000	,000	,003		,065
	N	78	78	78	78	78	71
ln(Average costs on R&D per 1 organization)	Pearson Correlation	,547**	,725**	,485**	,220	,220	1
	Value (2 sides)	,000	,000	,000	,066	,065	
	N	71	71	71	71	71	71

** The correlation is significant at the 0.01 level (2-side).

Source: Calculated by the authors.