Method for forecasting pollution of urban areas

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Abstract. A model for substantiating the parameters of regression models for a comprehensive indicator of environmental pollution has been developed. A distinctive feature is the separate consideration of the influence of factors of the natural and industrial environment, as well as the linear nature of the interaction of nonlinear variables. The resulting model will allow us to analyze the current state of the environment depending on the quantity and quality of environmental indicators, and also identify critical changes in it. In the urban development industry, this model will help in planning the possibility of placing objects with a high environmental burden in a particular area.

1 Introduction

The development of urban areas, for the most part, is due to the progressive growth of city-forming industrial enterprises, utilities and transport hubs, affecting the economic, environmental and social components of the city and the country as a whole. With the growth and development of technological progress, the natural environment is experiencing a load on a relative scale, more and more polluting substances enter the environment, contributing to cause geo-ecological instability. Many human activities, and in particular industrial production, produce a huge amount of waste and pollution, which require the development of basic technologies for controlling emissions, processes, implementation and costs of which should be justified by the degree of achieved results [1-3]. In order to answer the question about the state of environmental pollution, it is necessary to conduct systematic observations and assess the technogenic impact on natural objects of urban agglomerations. Many scientists consider the geoecological problems of urban areas, trying to find new forecasting methods and methods for assessing the current situation, under the influence of technological progress [4-9]. Globally, adverse effects on human health and air quality can be considered as a result of anthropogenic activities responsible for economic development and energy dependence [10-14].

Many objects located in or near the city do not fulfill the required environmental safety measures, which entails the accumulation and spread of harmful substances in the surrounding space. All kinds of pollutants accumulate and settle on the surface, getting into bodies of water, groundwater, and also with water and air into the organisms of living beings, which leads to a decrease in the number of natural resources suitable for use, to an increase in the incidence of the population, and as a result a reduction in life expectancy [15-18]. In order to suspend the launched process of anthropogenic impact and not aggravate the current situation, it is necessary to look for new methods for predicting the development of environmental pollution from stationary sources and vehicles. The most relevant pollution prediction methods today are monitoring, GIS, mapping, modeling, which allow us to assess the environment with an increase in the number of components [19-27].

Thus, if it is necessary to draw dependencies and find patterns between the actual state of the environment and potential sources of pollution, it is possible to create a new technique based on a mathematical model.

2 Methods

This article discusses the methodology of predictive modeling, depending on the number of components of anthropogenic and natural environments. The construction of models is a necessary measure due to the inability to explore a real object in all its complexity. Naturally, the simplification should not concern the most important elements from the point of view of the tasks being solved.

The goal was set as part of the study - to develop a forecast model with which you can compare the quantitative data received from monitoring stations with the actual number of considered objects emitting harmful substances, thereby assessing areas in which objects are harmful that affect the environment and predict the development of urban areas so as not to aggravate the environmental situation.

Initial data and unknown variables for created procedure are specified in Table 1. Calculated characteristics of the procedure are specified in Table 2.

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Table 1. Initial data and unknown variables for created
procedure.

proce	edure.		
No.	Name of the initial data element	Meas . unit	Designation / expression
1	Initial data	. umi	/ expression
-	Inthin Gutu		
1.1	Initial data for optimization mod	lel	
1.1. 1	General initial data		
1.1.	Total number of indicators for	units	m
1.1	natural environment	•	
1.1. 1.2	Total number of indicators for industrial environment	units	n
1.1. 1.3	Total number of studied geographical areas	units	D
1.1. 1.4	Largest absolute difference of indicators Q^{I}_{d} and Q^{N}_{d}	conv. units	М
1.4	Minimal values of the	-	W ^{min}
1.5	coefficients w_d^I and w_d^N		
1.1. 1.6	Minimal values of the coefficients w^{I}_{d} and w^{N}_{d}	-	W^{\max}
1.1. 2	Indexes		
1.1. 2.1	Index for indicator connected to natural environment	-	i
1.1. 2.2	Index for indicator connected to industrial environment	-	j
1.1. 2.3	Index for studied geographical	-	d
1.1.	area Initial data for the indicator con	nected t	o natural
3	(industrial) environment;	liceted	o naturar
1.1. 3.1	Name of indicator for natural (industrial) environment	-	-
1.1. 3.2	Minimal proportion of the influence coefficient to natural	-	
	(industrial) environment		
1.1.	Maximal proportion of the	-	
3.3	influence coefficient to natural (industrial) environment		
1.1.	Initial data for studied geographi	ical area	L
4	Name of geographical area	-	-
4.1			
1.1. 5	Initial data for the indicator com (industrial) environment in geog		
5	Absolute value of the indicators		aita, ,
5.1	for natural (industrial) environment		
1.2	Initial data for pollution forecast	model	L
1.2.	Index of geographical area to be considered	-	d°
1.2.	Value for the indicator of	MU*	
2	natural (industrial) environment		
	corresponding to present state** of the geographical area		
1.0	$d^{\circ};;$	MIT	
1.2. 3	Value for the indicator of industrial environment	MU*	
	corresponding to future state of		
	the geographical area d° ; ;		
2	Unknown variables of optimiza	ation m	odel

_			
2.1	Coefficient of influence of the	-	
	particular indicator of the		
	natural (industrial) environment		
	on the complex indicator;		
2.2	Absolute positive (negative)	conv.	
	deviation of the complex	units	
	indicator for industrial		
	environment from the complex		
	indicator for natural		
	environment in geographical		
	area		
2.3	Indicator of excess of indicator	-	
	Q^{I}_{d} related to indicator Q^{N}_{d}		
Note		1	
	idual (in general case) measure ur	nit deter	mined by the
	re of the indicator under considera		innied by the
ale ale	ually		
us	uarry		

Table	2.	Calculated	characteristics	for	created
procedu	re.				

	cuure.		
No	Name of the initial		Formula
•	data element	. unit	e (* * (* – – – – – – – – – – – – – – – –
1	Calculated charact	eristics	of optimization model
1.1			or the indicator connected onment in geographical
1.1	Normalized value	-	
.1	of the indicator*		
1.2	Calculated character	ristics fo	or geographical area;
1.2 .1	Complex indicator for natural (industrial) environment	-	
1.3	Calculated character to natural (industrial		or the indicator connected onment;
1.3 .1	Value of the indicator for the most favorable region	MU**	if increase of the indicator i(j) determines a favorable environmental impact; otherwise.
1.3 .2	Value of the indicator value for the least favorable region	MU**	if increase of the indicator i(j) determines a favorable environmental impact; otherwise.
1.3 .3	Minimal value of the coefficient of influence of the particular indicator for the environment on the complex indicator	-	
1.3 .4 1.4	Maximal value of the coefficient of influence of the particular indicator for the environment on the complex indicator Aggregated calculat	-	acteristics
1.4	Aggregated calculat		

	the complex		
	indicator of		
	industrial (natural)		
	environment on the		
	complex indicator		
	of natural		
	(industrial)		
	environment		
2	Calculated charact	eristics	for pollution forecast
	model		
2.1	Calculated character	istics fo	or the indicator i(i)
			rial) environment in
	geographical area d;		
		1-1,2,.	,iii (j=1,2,,ii),
0.1	d=1,2,,D		
	Proportion in the	-	
.1	complex indicator		null otherwise
	of natural		
	(industrial)		
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	the indicator of		
	natural (industrial)		
	environment		
2.2		inti- C	an the indicator ://
2.2	Calculated character		
	connected to natural	(indust	rial) environment
2.2	Average value of	_	
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.1	· ·		
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	of natural		
	(industrial)		
	environment for		
	particular indicator		
	of natural		
	(industrial)		
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2.2	Minimal value of		
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.2	proportion in the		
	complex indicator		
	of natural		
	(industrial)		
	environment for		
	particular indicator		
	of natural		
	(industrial)		
	environment		
2.2			
2.2	Maximal value of	-	
.3	proportion in the		
	complex indicator		
	of natural		
	(industrial)		
	environment for		
	particular indicator		
	of natural		
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	environment		
<u>)</u>	Normalized value		
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.4	of the indicator for		
	the current state of		
	the geographical		
	area d° under		
	consideration d°		
2.2	Normalized value	-	
.5	the indicator j of		
	industrial		
	environment		
	corresponding to		
		1	
	the future state of		
	the geographical		

2.2	Change of 1 1 1		
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	for the		
	geographical area		
	d° under		
	consideration d°		
2.2	Change of	-	_
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	geographical area		
	<i>d</i> ° under		
-	consideration d°		
2.2	Normalized value	-	
.8	for the indicator i		
	of natural		
	environment		
	corresponding to		
	the future state of		
	the geographical		
	area d° under		
	consideration d°		
2.2	Absolute value for		
2.2		-	
.9	the indicator i of		
	natural		
	environment		
	corresponding to		
	the future state of		
	the geographical		
	area d° under		
	consideration d°		
2.3		istics for	or geographical area d°
	under consideration:		
2.3	Complex indicator	-	
.1	of natural		
••	(industrial)		
	environment for		
	current state		
2.3	Complex indicator	-	
.2	of industrial		
	environment for		
	current state		
2.3	Change of complex	-	
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	natural		
	environment		
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2.3 .5	of natural		
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.5 Not	environment for future state e:		
.5 Not	environment for future state e:	stic is	based on the results of

* Calculated characteristic is based on the results of calculation for the characteristics in lines 1.3.1 and 1.3.2 of Table 2.

** Individual (in general case) measure unit determined by the nature of the indicator under consideration.

*** Calculated characteristic is based based on the results of calculation for the characteristics 2.3.1-2.3.5 of Table 2.

For the consciousness of the optimization model, initial data are needed (Table 1), for the recognition of factors of the natural and technogenic environment. In this model, the natural environment is the level of compounds in the air.

The data on the natural environment were taken from monitoring stations located in each district of the city. Environmental indicators are industrial and municipal facilities divided by hazard classes, as well as the transport load on the motorways closest to the monitoring stations.

Environmental indicators are arithmetic mean data for each pollutant (carbon monoxide, ozone, suspended particles, etc.). The industrial environment indicators are industrial enterprises divided by hazard classes, and this also includes the transport load calculated by the arithmetic mean number of cars per hour passing through the perpendicular AB section on the busiest highways near monitoring stations All source data is indicated by a letter or expression for further calculations (table 1).

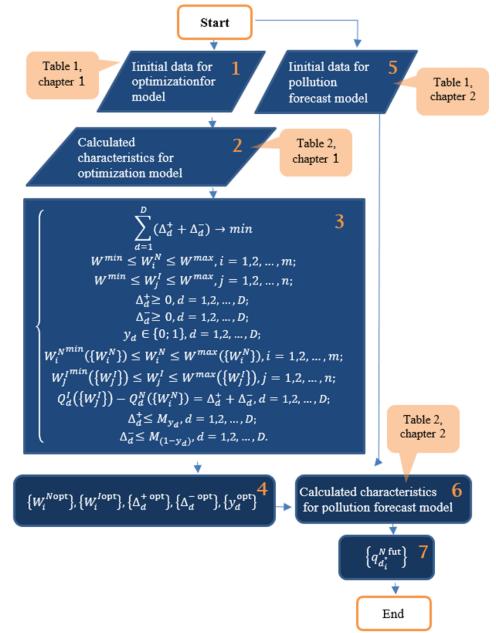


Fig. 1. Procedure for determination of predictive values for characteristics connected to assessment of environmental pollution

The essence of the mathematical model is that the quantity and quality of objects polluting the environment should correspond to the real picture obtained from monitoring stations, that is, to natural indicators. Hence, we can use this mathematical model as a predictive one, showing changes in the natural environment depending on changes in the industrial environment, finding unknowns.

Figure 1 presents a flowchart of the procedure for determining forecast values for characteristics associated with the assessment of environmental pollution, which is the result of a methodology for substantiating the characteristics of environmental pollution.

3 Results and Discussion

As a result of the creation of the methodology, it is possible to achieve the practical application of such a tool in the framework of monitoring and controlling the pollution of specific objects under study, for this the methodology should be implemented using standard computational algorithms in programs such as "Microsoft Excel", "Mathcad", "MatLab" and others. Figures 2,3 and 4 show the application of the methodology for substantiating the characteristics of environmental pollution in Excel. Table 3 and 4 show the resulting formulas with links to the formulas in the previous figures and tables introduced in Excel to simplify the use of the model.

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Fig.2. Initial given for the optimization model

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able 6.	The parameters of the forecast more	delifier assessment of emvironme	stal polletic			
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 |
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environment on the complex indice | | | 2.4 | 6.549 | 1,029 | 6.68
 | 1.079 | 8,013 | 6,071
 | 9,017 | 10,041 | | | 0.395070531 | 0.1
 | 0.014 | 0,034 | 6.01
 | 1.01 | 4,11 | 6,078 | | | | 0,4
 |
| | Menmal proportion of the coefficient | | 17 | | 0.125 | 0.05 | 6.015
 | 0.025 | 0.91 | 8,785
 | 8,025 | 4,015 | - | | | #.135
 | 8.019 | 3.015 | 0.025
 | 0.01 | 11.085 | 8.015 | - | - | - |
 |
| | Meximal proportion of the coeffici | | 1.00 | | 0.3 | 0.225 | 4.125
 | 8.075 | 0.135 | 6.215
 | 0.145 | 0.215 | - | | | 8.25
 | 0.145 | 0.15 | 0.095
 | 0.625 | 8,275 | 0.145 | - | - | - | 1.1.1
 |
| 4 | Mainal value of the coefficient | | 1.10 | | 6.549 | 8.020 | 6.006
 | 6.010 | 2004 | 8,033
 | 9.048 | 8,006 | | _ | | 8.014
 | 4.022 | 0.006 | 6.91
 | 8.004 | 8.036 | 1.006 | - | - | - |
 |
| | Maximal value of the coefficient | | 1.00 | | 6.118 | 8.099 | 6.049
 | 6.030 | 8.043 | 8,085
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| able K. | Relative characteristics of the locu | and model for processment of en- | irvenceial | pollation | - | _ | _
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Fig.3. Calculated values of the optimization model

791							
47	Deviation of th	e indicator Q_d^1 from th	e indicator Q ^N d	Difference between positive	Indicator of excess of	Maria I. I. Antonio	M
48 49	actual	absolute positive	absolute negative	and negative absolute deviations	indicator Q_d^1 related to indicator Q_d^N	Maximal value of Δ^+ for a positive actual deviation	Maximal value of ∆ [−] for a negative actual deviation
50	$Q_d^1 - Q_d^N$	Δ^{+}_{d}	Δ_d^-	$\Delta^{+}_{d} - \Delta^{-}_{d}$	y d	$M \cdot y_d$	$M \cdot (1 - y_d)$
51	усл.ед.	усл.ед.	усл.ед.	усл.ед.		усл.ед.	уся.ед.
52	-0,033212021	0	0,033212021	-0,033212021	0	0	1000
53	-0,005106347	0	0,005106347	-0,005106347	0	0	1000
54	-0,002926044	0	0,002926044	-0,002926044	0	0	1000
55	0,011626122	0,011626122	0	0,011626122	1	1000	0
56	0,011472428	0,011472428	0	0,011472428	1	1000	0
57	0,017936835	0,017936835	0	0,017936835	1	1000	0
58	0,031465454	0,031465454	0	0,031465454	1	1000	0
59	0	0	0	0	0	0	1000
60	-0,011017084	0	0,011017084	-0,011017084	0	0	1000

Fig.4. Calculated characteristics for pollution forecast model

 Table 3. Principles of worksheet formation in "Microsoft Excel" software

Address of cell(s)	"Microsoft Excel" formula / comment	Optimization model element
Table 1		
J3	value of initial data element	Table 1, line
J4	value of initial data element	Table 1, line 1.1.1.2

J5	value of initial data element	Table 1, line 1.1.1.3
J6	value of initial data element	Table 1, line 1.1.1.4
J7	value of initial data element	Table 1, line 1.1.1.5
J8	value of initial data element	Table 1, line 1.1.1.6
Table 2		
B14:I21	values of initial data elements	Table 1, line 1.1.2.1

Table 3		
B14:I21	values of initial data elements	Table 1, line
-	values of linual data elements	1.1.2.1
Table 4		Table 1, line
B32:I41	values of initial data elements	1.1.3.1
J32:Q41	values of initial data elements	Table 1, line 1.1.4.1
V32:AB	values of initial data elements	Table 1, line
41 J42(:S4	=IF(J29<>"";MIN(OFFSET(J32;	1.1.4.1 Table 2, line
2)	;;\$J\$5;));"")	1.3.1
V42(:A E42)	=IF(V29<>"";MIN(OFFSET(V3 2;;;\$J\$5;));"")	Table 2, line 1.3.1
J43(:S4 3)	=IF(J29<>"";MAX(OFFSET(J32 ;;;\$J\$5;));"")	Table 2, line 1.3.2
V43(:A	=IF(V29<>"";MAX(OFFSET(V	Table 2, line
E43)	32;;;\$J\$5;));"")	1.3.2
Table 5		
J52(:S6 1)	=IF(II(\$A52\$"";J\$49\$""); (J32-J\$43)/(J\$42-J\$43);"")	Table 2, line 1.1.1
	=IF(A52<>"";SUMPRODUCT(
T52(:U6 1)	OFFSET(J52;;;;\$J\$3);OFFSET(\$ J\$68;;;;\$J\$3));"")	Table 2, line 1.2.1
V52(:A	=IF(AND(\$A52<>"";V\$49<>"");	Table 2, line
V 32(:A E61)	= IF(AIVD(\$A32<> ,V\$49<>); (V32-V\$43)/(V\$42-V\$43);"")	1.1.1
	=IF(A52<>"";SUMPRODUCT(
AF52(: AG61)	OFFSET(V52;;;;\$J\$4);OFFSET(Table 2, line 1.2.1
A001)	\$V\$68;;;;\$J\$4));"")	
		Figure 1,
AH52(:	=AF52-T52	block 3, line
AH61)		9, left part of expression
AI52:AJ		Table 1, line
61	values of unknown variables	2.2
		Figure 1,
AK52(:	=AI52-AJ52	block 3, line
AK61)	-AIJ2-AJJ2	9, right part
		of expression
AL52:A L61	values of unknown variables	Table 1, line 2.3
LOI		Figure 1,
AM52(:		block 3, line
AM61)	=\$J\$6*AL52	10, right part
,		of expression
		Figure 1,
AN52(:	=\$J\$6*(1-AL52)	block 3, line
AN61)		11, right part
T 11 C		of expression
Table 6		Table 1, line
J68:S68	values of unknown variables	2.1
T68	=SUM(OFFSET(\$J\$68;;;;\$J\$3))	-
V68:AE 68	values of unknown variables	Table 1, line 2.1
AF68	=SUM(OFFSET(\$V\$68;;;;\$J\$4))	-
J69:S69	values of initial data elements	Table 1, line 1.1.2.2
V69:AE 69	values of initial data elements	Table 1, line 1.1.2.2
J70:S70	values of initial data elements	Table 1, line
V70:AE 70	values of initial data elements	1.1.2.3 Table 1, line 1.1.2.3
J71(:S7 1)	=IF(J\$66<>"";\$T\$68*J69;"")	Table 2, line 1.3.3
V71(:A	=IF(V\$66<>"";\$AF\$68*V69;"")	Table 2, line
E71)	(1.3.3

J72(:S7 2)	=IF(J\$66<>"";\$T\$68*J70;"")	Table 2, line 1.3.4
V72(:A E72)	=IF(V\$66<>"";\$AF\$68*V70;"")	Table 2, line 1.3.4
Table 7		
L78	=SUM(OFFSET(AI52;;;J5;2))	Figure 1, block 3, line 1, left part of expression
L79	=SUMXMY2(OFFSET(T52;;;J5;);	-
	OFFSET(AF52;;;J5;))	
L80	=IF(NOT(ISERROR(1- L79/(VAR.S(OFFSET(T52;;;J5;))*J5))); 1- L79/(VAR.S(OFFSET(T52;;;J5;))*J5);"-")	Table 2, line 1.4.1
L82	=IF(NOT(ISERROR(1- L79/(VAR.S(OFFSET(AF52;;;J5 ;))*J5))); 1- L79/(VAR.S(OFFSET(AF52;;;J5 ;))*J5);"-")	Table 2, line 1.4.1
Table 8		
J92(:S1 01)	=IF(AND(\$A92<>"";J\$89<>"");I F(\$T52>0; J52*J\$68/\$T52;"-");"")	Table 2, line 2.1.1
T92(:U1 01)	=IF(A92<>"";IF(T52>0;SUM(O FFSET(J92;;;;\$J\$3)); "-");"")	-
V92(:A E101)	=IF(AND(\$A92<>"";V\$89<>""); IF(\$AF52>0;V52*V\$68/\$AF52;" -");"")	Table 2, line 2.1.1
AF92(: AG101)	=IF(M92<>"";IF(AF52>0; SUM(OFFSET(V92;;;;\$J\$4));"- ");"")	-
J102(:S 102)	=IF(J\$89<>"";AVERAGE(OFFS ET(J\$92;;;\$J\$5;));"")	Table 2, line 2.2.1
V102(: AE102)	=IF(V\$89<>"";AVERAGE(OFF SET(V\$92;;;\$J\$5;)); "")	Table 2, line 2.2.1
J103(:S 103)	=IF(J\$89<>"";MIN(OFFSET(J\$9 2;;;\$J\$5;));"") =IF(V\$89<>"";MIN(OFFSET(V	Table 2, line 2.2.2 Table 2, line
V103(: AE103)	=IF(V\$89<>";MIN(OFFSE1(V \$92;;;\$J\$5;));"") =IF(J\$89<>"";MAX(OFFSET(J\$	2.2.2
J104(:S 104)	=IF(J\$89<>";MAX(OFFSE1(J\$ 92;;;\$J\$5;));"") =IF(V\$89<>"";MAX(OFFSET(Table 2, line 2.2.3
V104(: AE104) Table 9	=IF(V\$89<>"";MAX(OFFSE1(V\$92;;;\$J\$5;));"")	Table 2, line 2.2.3
G107	value of initial data element	Table 1, line 1.2.1
J113:Q1 13	values of initial data elements	Table 1, line 1.2.2
V113:A B113	values of initial data elements	Table 1, line 1.2.2
J114(:S 114)	=IF(NOT(ISERROR(VLOOKUP(\$G\$107;\$A\$52:\$AE \$61;9+J\$110))); VLOOKUP(\$G\$107;\$A\$52:\$AE \$61;9+J\$110);"")	Table 2, line 2.2.4
T114	=SUMPRODUCT(OFFSET(J11 4;;;;\$J\$4);OFFSET(\$V\$68;;;;\$J\$ 4))	Table 2, line 2.3.1

V114(: AE114)	=IF(NOT(ISERROR(VLOOKUP(\$G\$107;\$A\$52:\$AE \$61;21+V\$110))); VLOOKUP(\$G\$107;\$A\$52:\$AE \$61;21+V\$110);"")	Table 2, line 2.2.4
AF114	=SUMPRODUCT(OFFSET(V11 4;;;;\$J\$4); OFFSET(\$V\$68;;;;\$J\$4))	Table 2, line 2.3.1
J115(:S 115)	=IF(J110<>"";J116*(J42- J43)+J43;"")	Table 2, line 2.2.9
V115:A B115	values of initial data elements	Table 1, line 1.2.3
J116(:S 116)	=IF(J\$110<>"";\$T\$116*J102/J6 8;"")	Table 2, line 2.2.8
T116	=T114+T118	Table 2, line 2.3.5
V116(: AE116)	=IF(V110<>"";IF(V\$66<>""; (V115-V\$43)/(V\$42- V\$43);0);"")	Table 2, line 2.2.5
AF116	=SUMPRODUCT(OFFSET(V11 6;;;;\$J\$4); OFFSET(\$V\$68;;;;\$J\$4))	Table 2, line 2.3.2
J117(:S 117)	=IF(J\$110<>"";J115-J113;"")	Table 2, line 2.2.6
V117(: AE117)	=IF(V\$110<>"";V115-V113;"")	Table 2, line 2.2.6
J118(:S 118)	=IF(J\$110<>"";J116-J114;"")	Table 2, line 2.2.7
T118	=AF118	Table 2, line 2.3.4
V118(: AE118)	=IF(V\$110<>"";V116-V114;"")	Table 2, line 2.2.7
AF118	=AF116-AF114	Table 2, line 2.3.5

Table 4. Values of "Solver"	add-in setting parameters for
created procedure	

created procedure		
"Solver" setting	Parameter value	Procedure
parameter		element
Objective cell	L78	Figure 1, block
Type of	Minimum	3, line 1
optimization		
problem		
By changing	J68:Q68;	Table 1, line 2.1
variable cells	V68:AB68;	Table 1, line 2.1
	AI52:AJ61;	Table 1, line 2.2
	AL52:AL61	Table 1, line 2.2
Constraints	J68:Q68 >= J7;	Figure 1, block
	J68:Q68 <= J8;	3, line 2
	V68:AB68 >= J7;	Figure 1, block
	V68:AB68 <= J8;	3, line 3
	AI52:AJ61 >= 0;	Figure 1, block
		3, lines 4, 5
	AI52:AJ61 =	Figure 1, block
	binary;	3, line 6
	J68:Q68 >=	Figure 1, block
	J71:Q71;	3, line 7
	J68:Q68 <=	
	J72:Q72;	
	V68:AB68 >=	Figure 1, block
	V71:AB71;	3, line 8
	V68:AB68 <=	
	V72:AB72;	
	AH52:AH61 =	Figure 1, block
	AK52:AK61;	3, line 9
	AI52:AI61 <=	Figure 1, block
	AM52:AM61;	3, line 10

		Figure 1, block 3, line 11
Solving method	Simplex LP	- ,

A distinctive feature of this model is the linear nature of the relationship of nonlinear variables, that is, regression models with the optimality criterion - the sum of the squares of the absolute deviations of the predicted values of the complex indicator. A comprehensive indicator is an indicator of pollution for a given dataset of natural and industrial environments.

If this model is applied in practice, it is possible to obtain a program that analyzes the current state of the environment, depending on the quantity and quality of technogenic factors. Also, as a result of changes in quantitative indicators, this model will indicate critical changes in the natural environment.

4 Conclusions

A methodology was developed to justify the characteristics of environmental pollution, the result of which is a flowchart of the procedure for determining forecast values for the characteristics associated with the assessment of environmental pollution. Based on this technique, a model was obtained for predicting the pollution of the city, a distinctive feature of which is to separately account for the influence of factors of the natural and industrial environment, as well as the linear nature of the relationship of unknown variables representing the parameters of the regression model with the optimality criterion, which is the sum of the squares of the absolute deviation of the value a complex indicator of pollution for a given set of parameters of both considered environments. This model, to simplify working with it, was introduced into Microsoft Excel for automatic calculations according to given formulas and obtained indicators of the natural and technogenic environment.

Obviously, the resulting model will allow us to analyze the current state of the environment depending on the quantity and quality of environmental indicators, as well as determine critical changes in it. In the urban development industry, this model will help in planning the possibility of placing objects with a high environmental burden in a particular area. Also, in the case of finalizing this model, it is possible to predict the security measures taken, depending on the level of increase in the pollution indicator, taking into account certain factors.

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