AHP-OS Latest News

AHP Priority Calculator

Language: English Deutsch Español Português

AHP Criteria

Select number and names of criteria, then start pairwise comparisons to calculate priorities using the Analytic Hierarchy Process.

Select number of criteria:

Input number and names (2 - 20) 8 Go OK

Pairwise Comparison

28 pairwise comparison(s). Please do the pairwise comparison of all criteria. When completed, click Check Consistency to get the priorities.

With respect to AHP priorities, which criterion is more important, and how much more on a scale 1 to 9?

	A - wrt AHP prio	rities - or B?	Equal	How much more?				
1	Number of Varieties of Solid Geometry Grasped	○Speed of Grasp	O1	○ 2○3○4○5○6○7○8○9				
2	Number ofVarieties of SolidGeometry Grasped	Volume of Object Enclosed	O1	0203040506 • 70809				
3	Number ofVarieties of SolidGeometry Grasped	Surface Area of Object Enclosed	O1	0203040506 • 70809				
4	Number ofVarieties of SolidGeometry Grasped	Ability to GraspDeformable SolidObjects	O1	○ 2○3○4○5○6○7○8○9				
5	Number ofVarieties of SolidGeometry Grasped	Capability toMaintain SurfaceIntegrity	O1	02030405060708 • 9				
6	Number of Varieties of Solid Geometry Grasped	© Cost of Implementation	O1	O2O3O4O5O6®7O8O9				
7	Number of Varieties of Solid	Time of Implementation	O1	○2○3○4○5○6 ●7○8○9				

	A - wrt AHP prior Geometry Grasped	rities - or B?	Equal	How much more?
8	O Speed of Grasp	Volume ofObject Enclosed	O ₁	020304 • 506070809
9	O Speed of Grasp	Surface Area of Object Enclosed	01	○2○3○4●5○6○7○8○9
10	O Speed of Grasp	Ability to GraspDeformable SolidObjects	O ₁	○ 2○3○4○5○6○7○8○9
11	O Speed of Grasp	© Capability to Maintain Surface Integrity	O ₁	○2○3○4○5○6○7○8●9
12	O Speed of Grasp	Cost of Implementation	O ₁	○2○3○4○5○6 ●7○8○9
13	O Speed of Grasp	Time of Implementation	O1	0203040506
14	Volume of Object Enclosed	OSurface Area of Object Enclosed	1	0203040506070809
15	Volume of Object Enclosed	O Ability to Grasp Deformable Solid Objects	O1	○2 ○3 ○4 ○5 ○6 ○7 ○8 ○9
16	O Volume of Object Enclosed	© Capability to Maintain Surface Integrity	O1	○2○3○4●5○6○7○8○9
17	O Volume of Object Enclosed	Cost of Implementation	01	○ 2○3○4○5○6○7○8○9
18	O Volume of Object Enclosed	Time of Implementation	O1	○ 2○3○4○5○6○7○8○9
19	Surface Area of Object Enclosed	O Ability to Grasp Deformable Solid Objects	O ₁	0203040506
20	O Surface Area of Object Enclosed	© Capability to Maintain Surface Integrity	O1	○2 ○3 ○4 ○5 ○6 ○7 ○8 ○9
21	Surface Area of Object Enclosed	○ Cost of Implementation	① 1	0203040506070809
22	Surface Area of Object Enclosed	OTime of Implementation	© 1	0203040506070809

	A - wrt AHP prior	rities - or B?	Equal	How much more?
23	Ability to GraspDeformable SolidObjects	Capability toMaintain SurfaceIntegrity	01	O 2 O 3 O 4 O 5 O 6 0 7 O 8 O 9
24	Ability to GraspDeformable SolidObjects	© Cost of Implementation	01	○2○3○4◎5○6○7○8○9
25	Ability to GraspDeformable SolidObjects	Time of Implementation	O ₁	O 2 O 3 O 4 0 5 O 6 O 7 O 8 O 9
26	Capability toMaintain SurfaceIntegrity	○ Cost of Implementation	O ₁	02 03 04 05 06 07 08 09
27	Capability to Maintain Surface Integrity	○Time of Implementation	O ₁	○2 ○3 ○4 ○5 ○6 ○7 ○8 ○9
28	O Cost of Implementation	Time of Implementation	01	○ 2○3○4○5○6○7○8○9
CR =	= 3.7% OK			
C	alculate			Download_(.csv) ✓ dec. comma

AHP Scale: 1- Equal Importance, 3- Moderate importance, 5- Strong importance, 7- Very strong importance, 9- Extreme importance (2,4,6,8 values in-between).

Resulting Priorities

Priorities

Decision Matrix

These are the resulting weights for the criteria based on your pairwise

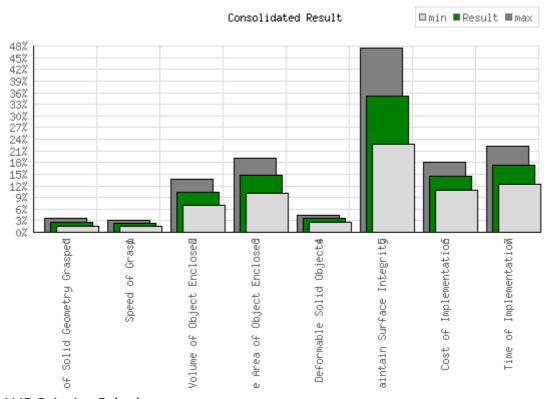
The resulting weights are based on the principal eigenvector of the decision matrix:

comparisons:					1	2	3	4	5	6	7	8	
Cat		Priority	Rank	(+)	1	(-)	2.00	0.14	0.14	0.50	0.11	0.14	0.14
1	Number of Varieties of Solid Geometry	2.5%	7	1.0%	2	0.50	1	0.20	0.20	0.50	0.11	0.14	0.14
					3	1.0% 7.00	5.00	1	1.00	3.00	0.20	0.50	0.50
	Grasped							1.00					
2	Speed of Grasp	2.2%	8	0.8%	5	0.8% 2.00	2.00	0.33	0.14	1	0.14	0.20	0.20

3	Volume of Object Enclosed	10.4%	5	3.4% ⁶	3.4%	.00	5.00 2.00		7.00 5.00		3.00	3.00
4	Surface Area of Object Enclosed	14.6%	3	4.5%8	4.9 % 7	.00	2.00	1.00	5.00	0.33	2.00	1
5	Ability to Grasp Deformable Solid Objects	3.6%	6	1.0%	1.0%							
6	Capability to Maintain Surface Integrity	35.1%	1	12.4%	12.4%							
7	Cost of Implementation	14.5%	4	3.6%	3.6%							
8	Time of Implementation	17.2%	2	4.9%	4.9%							

Number of comparisons = 28 Consistency Ratio CR = 3.7%

Principal eigen value = 8.364 Eigenvector solution: 5 iterations, delta = 4.7E-8



AHP Priority Calculator

Done

AHP-OS author: Klaus D. Goepel, BPMSG. Contact Last update: Feb 26, 2022

Rev: 172