

A Multicriteria Decision Aid Software Application for selecting MCDA Software using AHP

University of Minho

School of Engineering

Production and Systems Department





Saaty's Scale

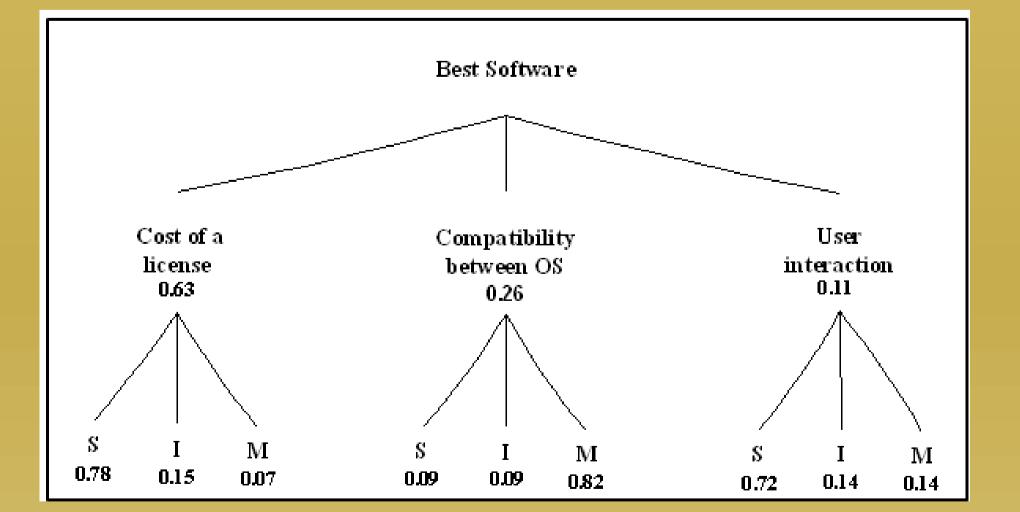
Comparison	Preference to be given				
If x is as important as y	1				
If x is a little more important than y	3				
If x is much more important than y	5				
If x is far more important than y	7				
If x is absolutely more important than y	9				

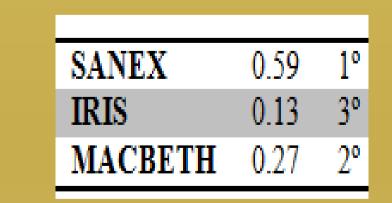
Pairwise comparison matrix between criteria and normalized matrix

	CL	COS	UI	CL	COS	UI	Sum of lines	Average
CL: Cost of a license	1	3	5	0.65	0.69	0.56	1.9	0.63
COS: Compatibility between Operating Systems	1/3	1	3	0.22	0.23	0.33	0.78	0.26
UI: User Interaction	1/5	1/3	1	0.13	0.08	0.11	0.32	0.11
Σ=	1.53	4.33	9	1.00	1.00	1.00	3	1.00

Example and Results

	S 0€	I 1000€	M 1750€	S 0€	I 1000€	M 1750€	Sum of lines	Average
S: SANEX 0€	1	7	9	0.8	0.84	0.69	2.33	0.78
I: IRIS 1000€	1/7	1	3	0.11	0.12	0.23	0.46	0.15
M: MACBETH 1750€	1/9	1/3	1	0.09	0.04	0.08	0.21	0.07
Σ=	1.25	8.33	13	1	1	1	3	1





AHP hierarchical structure with the priority weights

Final priority weights and ranking of the alternatives



Anabela P. Tereso (University of Minho, Portugal)

Cristina Seixedo (University of Minho, Portugal)