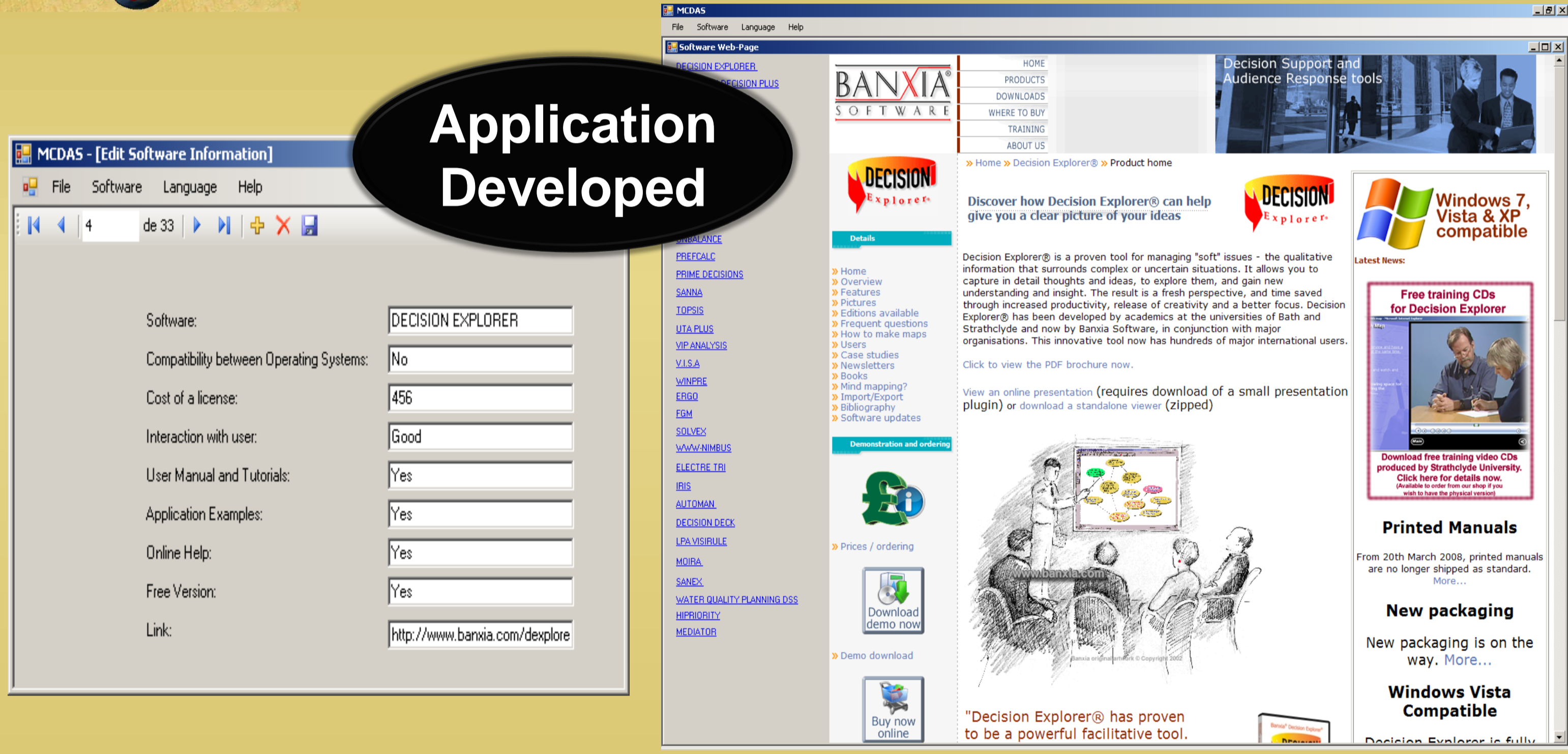
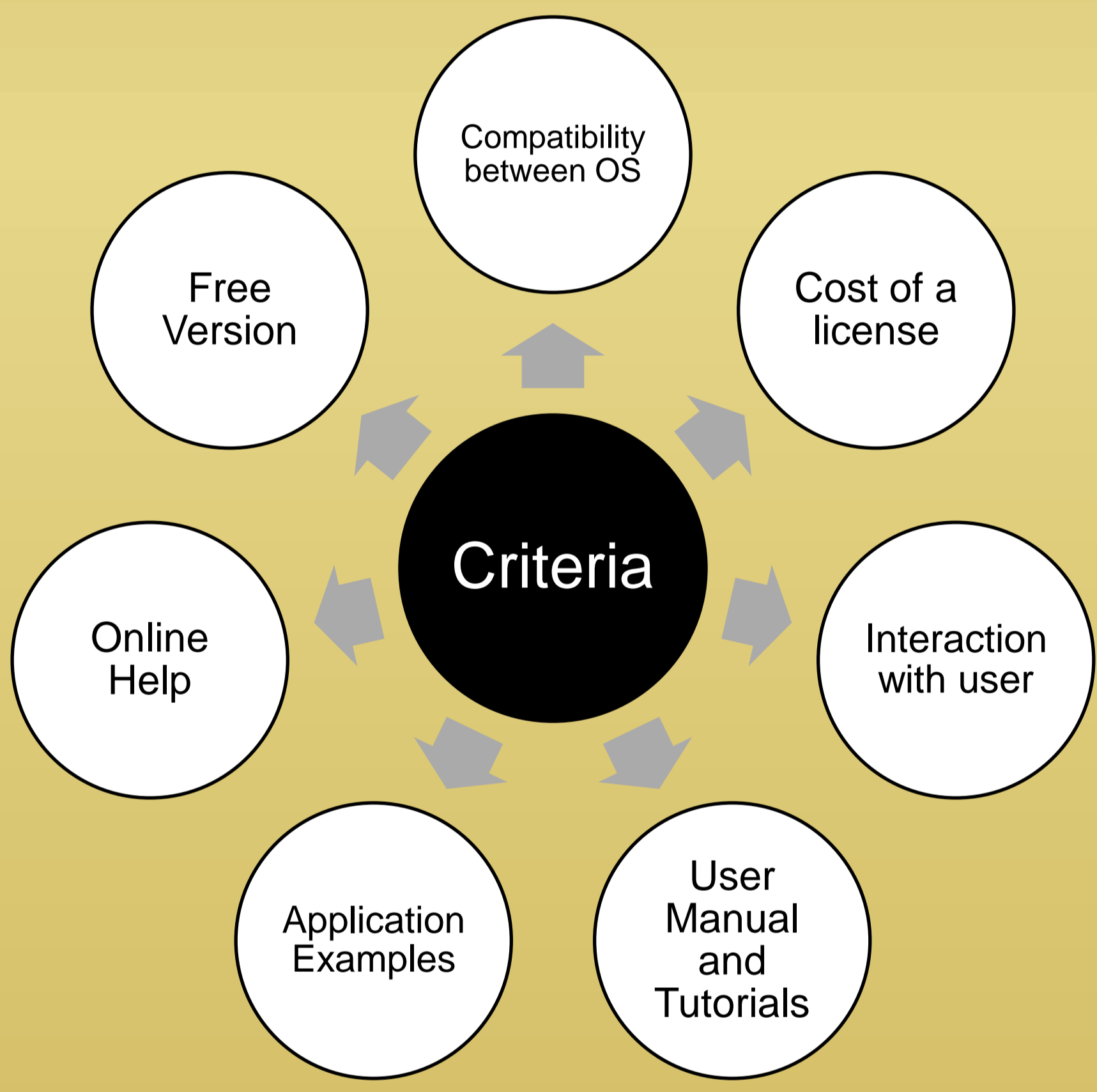


A Multicriteria Decision Aid Software Application for selecting MCDA Software using AHP

University of Minho
School of Engineering
Production and Systems Department



**MCDA Software:
Which one to
choose?**



Pairwise comparison matrix and normalized matrix between alternatives considering the criterion cost of a license

	S	I	M	S	I	M	Sum of lines	Average
	0€	1000€	1750€	0€	1000€	1750€		
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

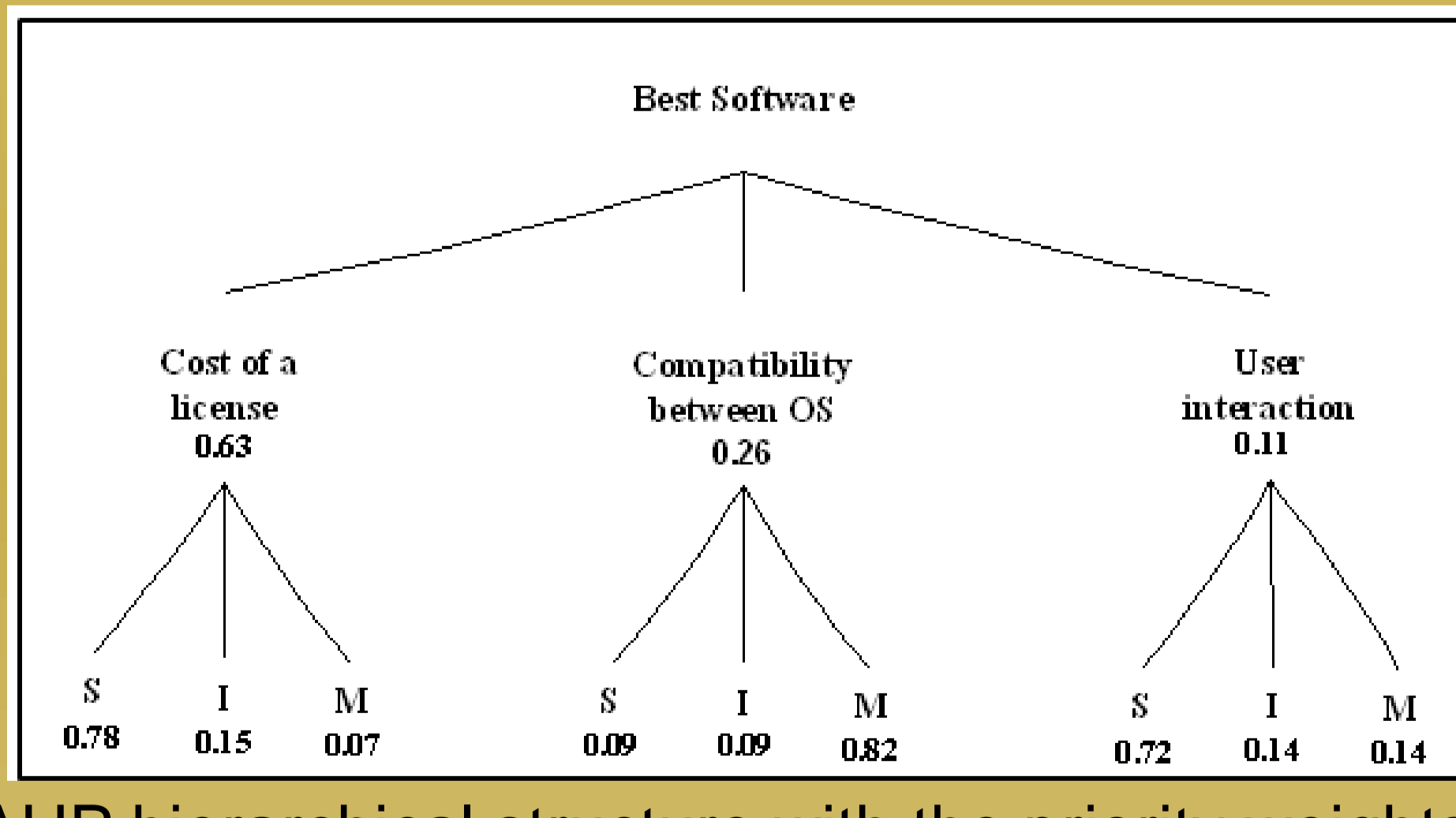
Saaty's Scale

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

**Example
and
Results**

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



SANEX	0.59	1 ^o
IRIS	0.13	3 ^o
MACBETH	0.27	2 ^o

Final priority weights and ranking of the alternatives

AHP hierarchical structure with the priority weights



Anabela P. Tereso
(University of Minho, Portugal)
anabelat@dps.uminho.pt

Cristina Seixedo
(University of Minho, Portugal)
pg13713@alunos.uminho.pt