Symbolic Analysis of the Time Use in the Basque Country

Marta Mas



Workshop on Symbolic Data Analysis

Lisbon, 26th January 2004







Workshop on Symbolic Data Analysis



Time Use Survey-EPT 1998

Time use variables

•Quantitative: *time in minutes for each activity.*

•Qualitative: 4 modalities:

- 1. No participation
- 2. Scarce participation
- 3. Medium participation
- 4. High participation



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	Clas	sica	l Dat	Sy ta Mat	/ m trix	bol	ic Ap	proach
	id	Sex	Age	Activity	Sleep	Cooking]	
	1 1	1	2	1	2	1		Grouped by
	22	2	2	3	3	1		sar aga and gativity
	4	1	2	1	4	1		sex, age and activity
	5 1	1	1	1	4	1		
	62	2	3	3	4	1		
	7 ′	1	2	1	4	1		
	82	2	2	1	4	1		
	10.1	ן כ	2	1	2	1		
	10 2	2	1	3	2	1		Symbolic Data Matrix
		Sleep						Cooking
00	M 35	5-59 E	Scarce Pa	articip. (0.60)	, Medium P	articip. (0.30)	, High Particip. (0.10)	No Particip. (0.74), High Particip. (0.01), Medium Particip. (0.06), Scarce Parti
SO_1	F 35	5-591	Scarce Pa	articip. (0.45)	, Medium P	articip. (0.43)	, High Particip. (0.11)	No Particip. (0.02), High Particip. (0.74), Medium Particip. (0.21), Scarce Parti
SO_2	M <	M < 35 E Scarce Particip. (0.62), Medium Particip. (0.27), High Particip. (0.11						No Particip. (0.66), High Particip. (0.01), Medium Particip. (0.09), Scarce Parti
2	F>	F > 59 I Scarce Particip. (0.19), Medium Particip. (0.37), High Particip. (0.44						No Particip. (0.09), High Particip. (0.45), Medium Particip. (0.35), Scarce Parti
	F	F < 35 I Scarce Particip. (0.64), Medium Particip. (0.30), High Particip. (0.06						No Particip. (0.29), High Particip. (0.29), Medium Particip. (0.20), Scarce Parti
	M >	∍ 5 91	Scarce Pa	articip. (0.16)	, Medium P	articip. (0.26)	, High Particip. (0.58)	No Particip. (0.67), High Particip. (0.04), Medium Particip. (0.13), Scarce Parti
SO	F <	35 E	Scarce Particip. (0.45), Medium Particip. (0.37), High Particip. (0.18)					No Particip. (0.22), High Particip. (0.08), Medium Particip. (0.24), Scarce Parti
5018	3 F 35	F 35-59 E Scarce Particip. (0.71), Medium Pa					, High Particip. (0.06)	No Particip. (0.09), High Particip. (0.15), Medium Particip. (0.41), Scarce Parti
	1.1.							











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References

• Exploratory Methods for Extracting Statistical Information from Complex Data - BOCK, H.H.; DIDAY, E.; Springer, 2000

• SODAS 2.0 Help Manual

 Download SODAS I and several information www.ceremade.dauphine.fr/~touati/sodas-pagegarde.htm

ASSO website

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