## Partial exam 2 - Jeudi 4 mai 2017 - Duration: 60 min

No document, no phone, no computing machine.

Name:	First name :			Signature:		
	Exercise 1 :	Exercis	e 2 :	G	rade /20 :	
Consider the follow — "T=Temper — "W=Wind"	Bayes Test, ≈ 10 pt owing data set with cature" taking on the taking on the possi classification "S=Sw	two pred e possibl ible value	e values : es : weak a	low, i	medium and higl trong,	1,
1. Calculate the	ne look up tables fr	T low low medium high om the tr	W weak strong weak strong aining da	no no yes no	. Show your calcu	ılation.

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2. We now end	counter a new ex	tample : "T=hig	gh" and "W=we:	ak". How should	this exam
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Data Valorization

Polytech Nice Sophia/MAM4/SI4/EIT Digital

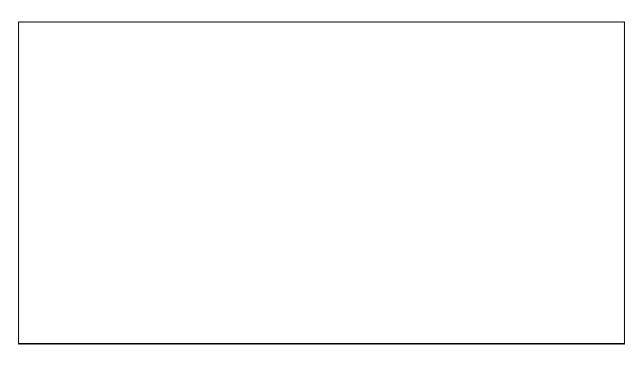
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3. W	hen you	encour	nter the	situation	n "T=hig e predicti	h" and "'	W=weak"	, which ir vith the in	ituitive (	decisio Evolai:
301		SOTIABLE	to take :	Does the	predicti	on be con	1515tC11t W	vitii tiite iii	turtion:	Explai
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Gl	ve a mai	nematio	cal answ	er.						

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$(\rho_k)_{k\in\mathbb{Z}}$ for	definition (all r or a weakly stati					
sitive into	egers.					
4. Calculate	the autocorrela	tion function	$(\rho_k)_{k\in\mathbb{Z}}$ of	a MA(1) time	e series with	coefficients
and $\beta_1$ .						

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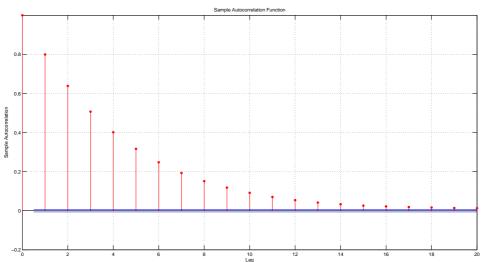


FIGURE 1 – Sample autocorrelation of a time series.

5. Figure 1 shows the autocorrelation of a time series. Do you think that this times series could be well modeled by MA(1)? If not, which model could be more relevant?

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