

## VG500

### Technical Communication

#### Assignment 4

Manuel — UM-JI (Spring 2019)

- A  $\LaTeX$  file compiling with errors will not be graded
- Submit the pdf and  $\LaTeX$  versions inside an archive of type tar, zip, or rar
- Add any referenced article to the archive
- Follow the group submission guidelines
- Any work that fails to comply with the previous requirements will be ignored

#### Ex. 1 — *Writing skills*

1. Rewrite the following lengthy sentence into shorter ones (transitional words can be added): “As observed in Fig. 1, variations across the die arise from stencil aperture dimension variations and stencil cleanliness, and smaller variations arise from random defects such as inclusions in the paste and contamination from the wafer or environment.”
2. Adding transitional words, rephrase the following sentences:
  - (a) These systems are very sensitive. They are very reliable. Many banks, shops, hotels and other businesses use them. Their components are of the highest quality.
  - (b) We are holding the above cheque. There are insufficient funds in your account to clear it. Our normal practice would be to charge you 150 RMB. This is your first time. We will waive the charge this time.
  - (c) We will create and manage distinctive spaces that inspire innovation and excellence in our customers and users within a secure and sustainable integrated community, comprising mixed-use developments anchored by business space.
3. Keeping in mind the KISS strategy, rephrase the following sentences:
  - (a) The greater number of these problems can readily be dealt with in such a way as to bring about satisfactory solutions.
  - (b) The trend in the industry is toward self-generation by some companies of their own websites, and Internet technology is changing the nature of training necessary to acquire the skill of website development at an acceptable level of sophistication, so that this activity can more and more be handled in-house.
  - (c) Harold made a recommendation that we fire Mr. Harrison.
  - (d) We will ask him to bring about a change in his work routine.
  - (e) Their correspondence came to an end when he learned that they were no longer supportive of his proposal.
  - (f) The purpose of this document is to provide identification for the recovered objects.

#### Ex. 2 — *Group exercise*

Download the [TikZ & PGF manual](#). Read section 7 entitled “Guidelines on graphics”. Summarise the whole section in about 300-400 words. In your summary emphasize both the good and bad practices when designing figures.

**Ex. 3** —  $\text{\LaTeX}$ 

Improved and reshape the following tables.

Component	Transition	Probability
MDC_A	Limited Bandwidth	$\lambda = 0.2$
	Memory Leak	$\lambda = 0.3$
	Bandwidth Upgrade	$\lambda = 0.5$
	MDC_A Reboot	$\lambda = 0.4$
	MDC Exception	Fixed Rate = 0.8
MDC_B	Communication Delay	$\lambda = 0.6$
	No WIFI	$\lambda = 0.3$
	Protocol Adjustment	$\lambda = 0.2$
	Router Reboot	$\lambda = 0.8$
	MDC Exception	Fixed Rate = 0.8
MDC_C	Retrieval Exception	$\lambda = 0.3$
	System No Response	$\lambda = 0.4$
	Omit Retrieval	$\lambda = 0.8$
	MDC_C Reboot	$\lambda = 0.9$
	MDC Exception	Fixed Rate = 0.8
MSC	Overload	$\lambda = 0.1$
	System Crashed	$\lambda = 0.2$
	Load Adjustment	$\lambda = 0.7$
	MSC Reboot	$\lambda = 0.9$
	MSC Exception	Fixed Rate = 0.9

Table 1: Transition and probability of MCAS

Trapdoor Size Before Compression	65536 bit
Trapdoor Size After Compression	3260.32 bit
Compression Rate	4.97 %

Table 2: Compression Rate

	Native	SLA-aware Scheduling		Proportional-share Scheduling	
	FPS	FPS	Overhead	FPS	Overhead
GT1	43.023	42.044	2.28%	42.221	1.86%
GT2	48.686	45.996	5.53%	48.284	0.83%
HDRT1	59.062	57.923	1.93%	57.700	2.31%
HDRT2	65.808	62.854	4.90%	65.984	-0.27%

Table 3: Macrobenchmark Results.

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