Technická univerzita v Košiciach Fakulta elektrotechniky a informatiky

Moja záverečná práca (šablóna)

Bakalárska práca

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Bakalárska práca

Študijný program: Informatika

Študijný odbor: 9.2.1. Informatika

Školiace pracovisko: Katedra počítačov a informatiky (KPI)

Školiteľ: Leslie Lamport Konzultant: Donald E. Knuth

Košice 2018

Bc. Janko Hraško PhD.

Abstrakt v SJ

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Kľúčové slová v SJ

L^AT_EX, programovanie, sadzba textu

Abstrakt v AJ

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Kľúčové slová v AJ

LaTeX, programming, typesetting

Bibliografická citácia

HRAŚKO, Janko. *Moja záverečná práca (šablóna)*. Košice: Technická univerzita v Košiciach, Fakulta elektrotechniky a informatiky, 2018. 69s. Vedúci práce: Leslie Lamport

Tu vložte zadávací list pomocou príkazu \thesisspec{cesta/k/suboru/so/zadavacim.listom} v preambule dokumentu.

Kópiu zadávacieho listu skenujte čiernobielo (v odtieňoch sivej) na 200 až 300 DPI! Nezabudnite do jednej práce vložiť originál zadávacieho listu!

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Košice, 13.5.2018	Vlastnoručný podpis

Poďakovanie

Na tomto mieste by som rád poďakoval svojmu vedúcemu práce za jeho čas a odborné vedenie počas riešenia mojej záverečnej práce.

Rovnako by som sa rád poďakoval svojim rodičom a priateľom za ich podporu a povzbudzovanie počas celého môjho štúdia.

V neposlednom rade by som sa rád poďakoval pánom *Donaldovi E. Knuthovi* a *Leslie Lamportovi* za typografický systém L^AT_EX, s ktorým som strávil množstvo nezabudnuteľných večerov.

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Motivácia

1 Formulácia úlohy

Text záverečnej práce musí obsahovať kapitolu s formuláciou úlohy resp. úloh riešených v rámci záverečnej práce. V tejto časti autor rozvedie spôsob, akým budú riešené úlohy a tézy formulované v zadaní práce. Taktiež uvedie prehľad podmienok riešenia.

2 Súvisiaca práca

2.1 Lorem ipsum

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- v knihe [2] autor prezentuje naozaj odvážne myšlienky
- nemenej zujímavé výsledky publikuje ďalší autor v článku [1]
- v konferenčnom príspevku [3] sú uvedené tiež zauímavé veci
- L^ATEX¹ je typografický jazyk

Given a set of numbers, there are elementary methods to compute its Greatest Common Divisor, which is abbreviated GCD. This process is similar to that used for the Least Common Multiple (LCM).

2.2.1 Donec vehicula consequat

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¹https://www.latex-project.org/



Obr. 2.1: LATEX Friendly Zone

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- 4. First itemtext
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2.2.3 Vestibulum tristique elementum varius

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Country List ISO ALPHA 2 Country Name ISO ALPHA 3 **ISO** numeric Code Code Code or Area Name 004 AF **AFG** Afghanistan Aland Islands **ALA** 248 AX**ALB** Albania ΑL 008 DZ**DZA** 012 Algeria AS 016 American **ASM** Samoa 020 AD Andorra AND AO **AGO** 024 Angola

Tabuľka 2.1: Country list

2.3 Phasellus id pretium neque

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3 Metodológia

4 Implementácia

5 Dosiahnuté výsledky

6 Interpretácia výsledkov

7 Ďalšia práca

8 Záver

Literatúra

- 1. ADAMS, Peter. The title of the work. *The name of the journal*. 1993, roč. 4, č. 2, s. 201–213. An optional note.
- 2. BABINGTON, Peter. *The title of the work*. 3. vyd. The address: The name of the publisher, 1993. 10. ISBN 3257227892. An optional note.
- 3. DRAPER, Peter. The title of the work. In: EDITOR, The (ed.). *The title of the book*. The address of the publisher: The publisher, 1993, zv. 4, s. 213. 5. An optional note.

Zoznam skratiek

GCD Greatest Common Divisor.

LCM Least Common Multiple.

Zoznam príloh

Príloha A Karel Language Reference

Príloha B CD médium – záverečná práca v elektronickej podobe,

Príloha C Používateľská príručka

Príloha D Systémová príručka

A Karel Language Reference

Karel's Primitives

- void movek() Moves *Karel* one intersection forward.
- void turn_left() Pivots Karel 90 degrees left.
- void pick_beeper() Takes a beeper from the current intersection and puts
 it in the beeper bag.
- void put_beeper() Takes a beeper from the beeper bag and puts it at the
 current intersection.
- void turn_on(char* path) Turns Karel on.
- void turn_off() Turns Karel off.

Karel's Sensors

- int front_is_clear() Returns 1 if there is no wall directly in front of *Karel*. 0 if there is.
- int right_is_clear() Returns 1 if there is no wall immediately to *Karel's* right. 0 if there is.
- int beepers_present() Returns 1 if *Karel* is standing at an intersection that has a beeper. 0 otherwise.
- int facing_north() Returns 1 if *Karel* is facing north. 0 otherwise.
- int beepers_in_bag() Returns 1 if there is at least one beeper in *Karel's* beeper bag. 0 if the beeper bag is empty.

Misc Functions

- $\bullet \ \, {\tt void} \ \, {\tt set_step_delay(int)} \,\, \, {\tt Sets} \,\, {\tt delay} \,\, {\tt of} \,\, {\tt one} \,\, {\it Karel's} \,\, {\tt step} \,\, {\tt in} \,\, {\tt miliseconds}. \\$
- loop(int) Repeats *Karel's* instruction in a loop.