

COMENIUS UNIVERSITY IN BRATISLAVA
FACULTY OF MATHEMATICS, PHYSICS AND
INFORMATICS

SKELETON TRACKING WITH CAMERA AND
SET OF IMUS

Diploma thesis

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STUDY PROGRAM: APPLIED INFORMATICS

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DEPARTMENT: DEPARTMENT OF APPLIED INFORMATICS

SUPERVISOR: RNDr. MARTIN MADARAS, PhD.

Bratislava, 2018

Bc. Tomáš Sláma

I hereby declare that I have written my diploma thesis on my own and I have only used the sources listed in the bibliography.

Bratislava, 2018

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Bc. Tomáš Sláma



Univerzita Komenského v Bratislave
Fakulta matematiky, fyziky a informatiky

ZADANIE ZÁVEREČNEJ PRÁCE

Meno a priezvisko študenta: Bc. Tomáš Sláma
Študijný program: aplikovaná informatika (Jednoodborové štúdium, magisterský II. st., denná forma)
Študijný odbor: aplikovaná informatika
Typ záverečnej práce: diplomová
Jazyk záverečnej práce: anglický
Sekundárny jazyk: slovenský

Názov: Skeleton Tracking with Camera and Set of IMUs
Skeleton Tracking with Camera and Set of IMUs

Anotácia: (C++, OpenCV, OpenGL)
- RGB or RGBD camera and IMUs
- IMUs can be attached in arbitrary configuration
- global energy minimization with pointcloud and IMU terms

Vedúci: RNDr. Martin Madaras, PhD.
Katedra: FMFI.KAI - Katedra aplikovanej informatiky
Vedúci katedry: prof. Ing. Dr. Igor Farkaš
Dátum zadania: 25.09.2017

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prof. RNDr. Roman Ďurikovič, PhD.
garant študijného programu

.....
študent

.....
vedúci práce

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Abstract

Abstract will be written later

Key words: Skeleton, Tracking, Camera, IMU

Abstrakt

Abstrakt dopisem neskor

Kľúčové slová: Skeleton, Tracking, Camera, IMU

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Prologue

1.1 Introduction

Project introduction

1.1.1 Inspiration

Recently done projects

Chapter 2

Theory

2.1 Skeleton tracking

2.2 title

Bibliography

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