Czech Technical University in Prague
Faculty of Electrical Engineering

Department of Cybernetics

DIPLOMA THESIS ASSIGNMENT

Student: Bc. Michal Š m r h a

Study programme: Biomedical Engineering and Informatics

Specialisation: Biomedical Informatics

Title of Diploma Thesis: 3D Atlas of Human Bones

Guidelines:

1. Perform an analysis of the current solution of the 3D bone atlas. Identify possible improvements.
2. Perform a review of relevant technologies.
3. Based on the previous analysis design a new version of the atlas.
4. Consult the design with a medical expert.
5. Implement the atlas according to the design.
6. Verify and test the functionality of the implementation.
7. In case of time reserve, perform testing at the medical faculty.

Bibliography/Sources:

[1] WebGL Programming Guide: Interactive 3D Graphics Programming with WebGL (OpenGL) Paperback – July 19, 2013 by Kouichi Matsuda (Author), Rodger Lea (Author) ISBN-13: 978-0321902924

[2] Professional ASP.NET MVC 5 Paperback – August 4, 2014 by Jon Galloway (Author), Brad Wilson (Author), K. Scott Allen (Author), David Matson (Author) 4 customer reviews ISBN-13: 978-1118794753

[3] Systems Analysis and Design with UML Hardcover – February 1, 2012 by Alan Dennis (Author), Barbara Haley Wixom (Author), David Tegarden (Author) 15 customer reviews ISBN-13: 978-1118037423

Diploma Thesis Supervisor: Ing. Miroslav Burša, Ph.D.

Valid until: the end of the winter semester of academic year 2015/2016

L.S.

doc. Dr. Ing. Jan Kybic
Head of Department

prof. Ing. Pavel Ripka, CSc.
Dean

Prague, September X, 2014