



P. J. Šafárik University in Košice
Faculty of Science

THESIS ASSIGNMENT

Name and Surname: Jakub Ďuraš
Study programme: Applied Informatics (Single degree study, bachelor I. deg., external form)
Field of Study: 18. - Computer Science
Type of Thesis: Bachelor thesis
Language of Thesis: English
Secondary language: Slovak

Title: Replacing handwritten signatures with open electronic signature software
Title SK: Náhrada vlastnoručných podpisov otvoreným softvérom na elektronické podpisovanie
Aims:
1. Explore the principles and legal status of electronic signatures.
2. Review existing software and propose and develop open-source, cross-platform, and user-friendly platform for electronic document signing.
3. Provide information and a way to create signatures compliant with eIDAS Regulation (Regulation No 910/2014).
References:
[1] MASON, Stephen, 2017. Electronic Signatures in Law: Fourth Edition. London: University of London. ISBN 978-1-911507-01-7. Available at: <https://humanities-digital-library.org/index.php/hdl/catalog/view/electronic signatures/1/86-1>
[2] PAAR, Christof and Pelzl, Jan, 2009. Understanding Cryptography - A Textbook for Students and Practitioner. Berlin: Springer. ISBN 978-3-642-04100-6
[3] SOMMERVILLE, Ian, 2016. Software Engineering, 10th Edition. Harlow: Pearson Education. ISBN 978-0-13-394303-0.
Keywords: electronic signature, electronic seal, qualified, open-source, XAdES, PAdES, CAdES, desktop software
Supervisor: RNDr. Viliam Kačala
Institutes : ÚINF - Institute of Computer Science
Head of Institute: RNDr. Ondrej Křídlo, PhD.
Electronic version available: unlimited

Approved: 10.05.2020

Prof. RNDr. Viliam Geffert, DrSc.
riaditeľ ústavu