Christian Kıss-То́тн

Personal Data

Place and Date of Birth	Zombor, Serbia 04 July 1987
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WORK EXPERIENCE

<i>Current</i> Jan 2017	CUJO SMART FIREWALL, Los Angeles Data Scientist Developing Machine Learning Algorithms for different tasks in IT security field. (full- time job)
Sept 2011-Aug 2017	SZÉCHENYI ISTVÁN UNIVERSITY, Györ Assistant Lecturer Holding calculus and linear algebra courses for bachelor engineering students. (full- time job)
Aug 2015-Jan 2017	AUDI HUNGARIA MOTOR LTD., Györ Programmer Implementation of python scripts for developing the framework of the simulations, pre and post processing the numerical data. (part-time job)
Sept 2014-May 2017	TREFORT ÁGOSTON TEACHER TRAINING SCHOOL, Budapest External lecturer Leading study groups in mathematics for the preliminary examinations for sixth grade studens. (part-time job)

EDUCATION

Jan 2011	EÖTVÖS LÓRÁND UNIVERSITY, Budapest Master Degree in MATHEMATICS, <i>degree with honours</i> Major: Combinatorical Optimization and Graph Theory GPA: 4.85/5
Spring 2009	Exchange Semester at University of Sheffield GPA: 4.67/5

JUN 2005 Final Exam at Árpád High School | Final Grade: 5/5

PUBLICATIONS

- Z. HORVÁTH, P. PUSZTAI, T. HAJBA, C. KISS-TÓTH: Mathematical Methods and Parallel Codes for Production Line Optimization, Proceedings of Factory Automation Conference, 25-26th May, 2011, Györ, Hungary, ISBN: 978-963-7175-3.
- C. KISS-TÓTH, G. TAKÁCS: *A dynamic programming approach for 4D flight route optimization,* Proc. of 2014 IEEE Conference on BigData (IEEE BigData 2014), Workshop on Large Data Analytics in Transportation Engineering, p. 24-28, Washington D.C., USA, 2014.

CONFERENCE TALKS

- C. KISS-TÓTH, G. TAKÁCS: A Dynamic Programming Approach for 4D Flight Route Optimization, IEEE Big Data 2014, Workshop on Large Data Analytics in Transportation Engineering", 27. October 2014., Washington D.C., USA.
- C. KISS-TÓTH, G. TAKÁCS: *Optimizing airplane routes with dynamic programming*, "Workshop of Design, Simulation, Optimization and Green Vehicles and Transportation", 22. May 2014., Györ.
- С. KISS-TÓTH, I. DEÁK, Z. HORVÁTH, T. A. KOCSIS, T. MORAUSZKI: *Methods for optimizing objective functions with large evaluation time*, "Simulation and Optimization Conference 2011", 1. July 2011. Györ.
- Z. HORVÁTH, P. PUSZTAI, T. HAJBA, C. KISS-TÓTH: Mathematical Methods and Parallel Codes for Production Line Optimization, "Factory Automation 2011", 26. May 2011., Györ.

INDUSTRIAL PROJECTS

- TÁMOP-4.2.2.C-11/1/KONV-2012-0012: Smarter Transport IT for co-operative transport system
 - Analysis of the meteorological and traffic data of Györ, forecast of the nitrogen oxide and particulate matter concentration.
- TÁMOP-4.2.2.A-11/1/KONV-2012-0012: Basic research for the development of hybrid and electric vehicles
 - Modeling the control of the urban traffic, research on the preservation of the maximum law of the different ODE solving methods.
- TÁMOP-4.2.2-08/1/KONV-2008-0021: Simulation and Optimization basic research in numerical mathematics.
 - Optimization of production lines, research and implementation of the different methods for the flow shop problems.

PRIZES AND AWARDS

May 2014-Sept 2014	Higgs Boson Machine Learning Challenge (Kaggle)
	52nd place (out of 1785)

AUG 2013-FEB 2014 GE Flight Quest 2: Flight Optimization Challange (Kaggle) 5th place (of 129) in team with G. Takács

LANGUAGE SKILLS

Hungarian	Mother tongue
English	Fluent
German	Basic Knowledge
Serbian	Sufficient knowledge

COMPUTER SKILLS

Intermediate Knowledge	VBA, Excel, Word, C++, HTML, Linux, $ ot\!ET_{ m E} m X$
Advanced knowledge	MatLab, Python, Pandas, Numpy, Scikit-Learn