PERSONAL & CONTACT DETAILS

Date of birth: June 29, 1980

Marital status: Married

Address

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PROFESSIONAL STATEMENT

Highly motivated, strategic-thinking professional with more than ten years hands-on experience in programming, software design and data mining. Experienced in all the design, implementation and testing stages of building a software product as well as in several research projects. Recently interested in interactive database visualization, knowledge-based data clustering and revenue management techniques. Data science enthusiast and a big fan of LATEX and Vim.

EDUCATION

2005-2012 Ph.D.: Warsaw University of Technology, Faculty of Electronics and Information Technology, Institute of Computer Science

1999-2004 M.Sc. Eng.: Warsaw University of Technology, Faculty of Electronics and Information Technology

Ph.D. Thesis

Piotr Lasek: Efficient Density-Based Clustering. Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa 2012.

PUBLICATIONS

- Suraj Z., Lasek A., Lasek P. Inverted fuzzy implications in approximate reasoning, Fundamenta Informaticae 2015
- Lasek, P., Lasek, K.: Relative Constraints as Features Extended Abstract, In Proceedings of the Workshop on Concurrency, Specification and Programming (CS&P 2014), Chemnitz, Germany, 2014, September 29-October 1, volume 245 of Informatik-Bericht, Humboldt University
- Lasek, P.: C-NBC: Neighborhood-Based Clustering with Constraints, In Proceedings of the Workshop on Concurrency, Specification and Programming (CS&P 2014), Chemnitz, Germany, 2014, September 29- October 1, volume 245 of Informatik-Bericht, Humboldt University
- 4. Lasek, P. CDM: A Prototype Implementation of the Data Mining JDM Standard. Proceedings of the Ninth International Conference on Dependability and Complex Systems

- DepCoS-RELCOMEX. June 30–July 4, 2014, Brunów, Poland. Springer International Publishing
- Maciura Ł., Lasek P., Iwanicka-Maciura A. Koncepcja systemu telemedycznego z komunikacją głosową służącego do przypominania i zdalnej kontroli zażywania leków przez pacjentów geriatrycznych i psychiatrycznych. Przegląd Elektrotechniczny 2014
- Lasek, P.: An Extended Version of the LVA-Index, Intelligent Data Engineering and Automated Learning – IDEAL 2013 / H. Yin et al. (Eds.), Lecture Notes in Computer Science vol. 8206, 2013, Springer, pp. 127–134.
- Lasek, P.: The LVA-Index in Clustering, New Results in Dependability and Computer Systems, Advances in Intelligent Systems and Computing Volume vol 224, 2013, Springer, pp. 275-283.
- 8. Kryszkiewicz, M., & Lasek, P. 2010. A Neighborhood-Based Clustering by Means of the Triangle Inequality. IDEAL 2010, pp. 284-291.
- Marzena Kryszkiewicz and Piotr Lasek. 2010. TI-DBSCAN: clustering with DBSCAN
 by means of the triangle inequality. In Proceedings of the 7th international conference
 on Rough sets and current trends in computing (RSCTC'10), Springer-Verlag, Berlin,
 Heidelberg, 60-69
- 10. Marzena Kryszkiewicz and Piotr Lasek. 2008. FUN: Fast Discovery of Minimal Sets of Attributes Functionally Determining a Decision Attribute. In Transactions on Rough Sets IX, Lecture Notes In Computer Science, Vol. 5390. Springer-Verlag, Berlin, Heidelberg 76-95
- Piotr Lasek: A faster method of building the LVA-Index, Information Systems Architecture and Technology, System Analysis in Decision Aided Problems, 2009. ss. 165-174.
- Piotr Lasek: LVA-Index. An efficient way to determine nearest neighbors, Advances in Data Management, 2009. ss. 623-633.
- Marzena Kryszkiewicz, Piotr Lasek: Fast Discovery of Minimal Sets of Attributes Functionally Determining a Decision Attribute, RSEISP'07, Warszawa, LNAI 4585, Springer (2007), s. 320-331
- Piotr Lasek, Henryk A. Kowalski: Visualization of Three Dimensional Vectocardiological Loops Using Elliptical Fourier Descriptors, XIV KBIB'05, Czestochowa (2005)

RESEARCH REPORTS

- Godfrey P., Gryz J., Lasek P. Interactive visualization of large data sets. Technical Report EECS-2015-03, York University
- 2. Lasek P., Bazan J. G. Examining JDM as a Tool for Implementing Data Mining Algorithms. ICS Research Report 4/2014, Warsaw, June 2014
- Kryszkiewicz, M., & Lasek, P. (2011). A Neighborhood-Based Clustering by Means of the Triangle Inequality and Reference Points. Warsaw: ICS Research Report 3/2011.
- 4. Kryszkiewicz, M., & Lasek, P. (2010b). TI-DBSCAN: Clustering with DBSCAN by means

- of the triangle inequality. Warsaw: ICS Research Report 3/2010.
- Piotr Lasek: LVA-Index: an Efficient Way to Determine Nearest Neighbors, Research Report, Politechnika Warszawska, Instytut Informatyki, 2008
- Henryk A. Kowalski, Piotr Lasek: Normalizacja eliptycznych deskryptorów Fouriera, ICS Research Report 15/2004, Warsaw, October 2004

RESEARCH PROJECTS AND GRANTS

- 2014-2016 Big data in the small, York University / Empress Software Inc., Toronto, Canada
- 2015-2016 Nonstandard methods of data clustering, Chair of Computer Science, University of Rzeszów, Poland
- 2013-2014 Efficient clustering with constraints, Chair of Computer Science, University of Rzeszów, Poland
- 2012-2013 Density based clustering using the LVA-Index, Chair of Computer Science, University of Rzeszów, Poland
- 2005-2008 Mining data in large data resources, Institute of Computer Science, Warsaw University of Technology, Poland
- 2005-2007 Analysis of marketing information for small and medium sized enterprises, Institute of Computer Science, Warsaw University of Technology, Poland
 - AMI-SME was a EU-funded project that aimed to structure and automate the identification, gathering and analysis of market information. It was designed to support the internationalization process of small and medium-sized enterprises. AMI-SME designed and implemented a software prototype for a domain model assisted Internet search with integrated document storage and knowledge organization. AMI-SME software supports systematic search activities that go beyond single-step retrieval.
- 2005-2007 Semi automated ontology building, Institute of Computer Science, Warsaw University of Technology
 - The Text-Onto-Miner project was undertaken by the Warsaw University of Technology Institute of Computer Science as a part of research agreement with France Telecom. The project goal was to create a set of tools both software and methods, that could be used to speed up and improve a process of creating ontologies.

Conferences and visits

- 2015 Sixth Workshop on Big Data Benchmarking (WBDB 2015), June 16-17, 2015, Toronto, Canada
- 2015 IBM Centers for Advanced Studies Research University Days, Markham, Ontario, Canada
- 2014 24th Annual International Conference on Computer Science and Software Engineering (CASCON 2014), Markham, Ontario, Canada
- 2014 23th international Workshop on Concurrency, Specification and Programming (CS&P 2014), Chemnitz, Germany
- 2014 The Ninth International Conference on Dependability and Complex Systems DepCoS-

- RELCOMEX 2015, Brunów, Poland
- 2013 The 14th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'2013), Hefei, China
- 2013 European University of Cyprus, ERASMUS Lifelong Learning Programme
- 2013 The Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX 2014, Brunów, Poland
- 2009 The 30th International Conference Information Systems Architecture and Technology, Szklarska Poręba, Poland
- 2009 The International Conference on Man-Machine Interactions, September 25-27, The Beskids Kocierz Pass, Poland
- 2005 The 14th National Conference on Biocybernetics and Biomedical Engineering, Częstochowa, Poland

EMPLOYMENT

- 2014-present York University, Faculty of Electrical Engineering and Computer Science (Toronto, Canada), Postdoctoral Fellow
 - Working on database visualization methods.
 - 2014-2014 Warsaw University of Technology, Institute of Computer Science (Warsaw, Poland), Research & Teacing Intern
 - Supervised and supported a group of students working on data mining assignments. Worked on developing constraint-based clustering algorithms.
- 2012-present University of Rzeszów, Chair of Computer Science (Rzeszów, Poland), Assistant Professor

Research interests: Data Mining, density-based clustering, clustering with constraints and knowledge-based clustering.

Courses taught: Introduction to Data Mining, Parallel and Distributed Programming, Software Engineering, Mobile Databases.

Other responsibilities: secretary of the local Rough Set and Petri Net research group, departmental coordination of the ERASMUS program.

- 2010-2012 EccSoft / Aditeo (Rzeszów, Poland), Design Engineer
 Designed and was responsible for tests of financial, accounting and registration software applications. Led and coordinated work of a group of several developers.
- 2009-2010 Nokia (Tampere, Finland), Design Engineer (C++, Symbian, Qt, SQLite)

 Analyzed source code of mobile applications, broke down problems related to software design of currently developed projects, designed components to be implemented, worked with other peers and programmers in a collaborative environment.
- 2007-2009 Comarch (Kraków, Poland), Senior Software Developer (C++, Symbian, Qt, SQLite)

 As a member of a group of developers implemented crucial modules of mobile software for one of the world leading suppliers of smartphones. Participated in all life cycle stages

(designing, coding, defect-fixing) of the development.

- 2006-2007 Motorola (Kraków, Poland), Software Developer (C++)
 - Worked as a team member in a department responsible for developing and maintenance of mobile radio software. Took part in a numerous trainings such as: Quality Management, Software Development Processes, Security Programming, etc.
- 2004-2006 m-Core (Warszawa, Poland), Software Developer (C#, SQL Server, SQLite)

 Designed and developed of sales software applications designed for mobile platforms such as Palm OS and Windows Mobile.
- 2003-2004 esentia.pl (Warszawa, Poland), Software Developer (Java, Swing, MySQL) Worked as a Java Swing and Web Developer.