Curriculum Vitae

Jan Outrata

Associate Professor
Department of Computer Science
Faculty of Science
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Born: December 14, 1978 – Šternberk, Czech Republic
Citizenship: Czech Republic

Education

Apr 2017	doc., Associate Professor of Computer Science, Masaryk University, Czech Republic
Dec 2006	Ph.D., Algebra, Palacký University Olomouc, Czech Republic
May 2003	M.Sc., Computer Science, Palacký University Olomouc, Czech Republic
Aug 2001	B.Sc., Computer Science, Palacký University Olomouc, Czech Republic

Professional Interests

Research:
- data mining and analysis (formal concept analysis, algorithms, classification, Boolean factor analysis)
- fuzzy relational systems
- drawing of ordered sets and lattices

Other:
- free software
- operating systems, computer networks
- computer typesetting

Publication and Citation Summary (to Sep 2018)

- 13 papers in peer-reviewed journals (12 with IF)
- 23 papers in proceedings of international peer-reviewed conferences (6 in Web of Science)
- 160+ citations (without selfcitations) in Web of Science, 500+ citations (without selfcitations) in total
- H-index 7 (Web of Science), 12 (Google Scholar)

Experience

Previous Positions

2007–2017 Assistant Professor, Department of Computer Science, Palacký University Olomouc, Czech Republic

2005–2007 Assistant, Department of Computer Science, Palacký University Olomouc, Czech Republic

Grants and Projects

Research:

2010–2012 Czech Science Foundation, No. P202/10/P360, "Classification with use of formal concept analysis", investigator

2014–2018 IGA Palacký University Olomouc, Czech Republic, investigator of 4 projects "Information processing: theory and algorithms"

2004–2017 participant in 6 grants and projects of Czech Academy of Sciences, Czech Science Foundation, Ministry of Education, Youth and Sports of the Czech Republic (principal investigator R. Bělohlávek, Palacký University Olomouc, Czech Republic)

Other (development, infrastructure):

2008, 2010 Ministry of Education, Youth and Sports of the Czech Republic, investigator and co-investigator of 2 grants focused on development of university infrastructure

Research Visits

Mar–Apr 2013 2 months, School of Information Systems and Technology, Faculty of Engineering and Information Sciences, University of Wollongong, Australia

Apr 2012 14 days, Institute of Algebra, Department of Mathematics, Faculty of Science, Technical University Dresden, Germany

Feb 2012 14 days, Department of Data Analysis and Artificial Intelligence, School of Applied Mathematics and Information Science, National Research University, Higher School of Economics, Moscow, Russia

Sep 2011 1 month, Laboratoire d'Informatique, de Modélisation et d'Optimisation des Systèmes (LIMOS), Institut d'Informatique, de Modélisation et des Applications (ISIMA), University Blaise Pascal, Clermont-Ferrand, France

Mar 2009 1 month, Department of Systems Science and Industrial Engineering, Thomas J. Watson School of Engineering and Applied Science, Binghamton University – State University of New York, NY, USA

Aug 2006 1 month, Department of Applied Mathematics, Biometrics and Process Control, Faculty of Bioscience Engineering, Ghent University, Belgium

Publications

Edited Volumes

[3] Ojeda Aciego M., Outrata J. (Eds.): Concept Lattices and Their Applications. Special Issue of *Int. Journal of General Systems* **45**(2)(2016), pp. 55–249.
[Taylor & Francis Group, ISSN 0308–1079 (paper), 1563–5104 (online)]

[2] Outrata J. (Ed.): DAMOL Symposium on Relational Data Analysis: Proceedings, 2014, 665 pp., Olomouc, Czech Rep., 9/2013.
[Palacký University Olomouc, Olomouc, Czech Rep.]

[1] Ojeda-Aciego M., Outrata J. (Eds.): CLA 2013: Proceedings of the 10th International Conference on Concept Lattices and Their Applications, 2013, 306 pp., La Rochelle, France, 10/2013.
[Laboratory L3i, University of La Rochelle, La Rochelle, France, CEUR WS, Vol. 1062, ISBN 978−2−7466−6566−8]

Journal Papers

[13] Toward quality assessment of Boolean matrix factorizations. *Information Sciences* **459**(2018), pp. 71−85 (coauthors Belohlavek R., Trnecka M.).
[Elsevier, DOI 10.1016/j.ins.2018.05.016, ISSN 0020−0255]
IF: 4.305, citations (without selfcitations): 0 WoS, 0 total

[12] A lattice-free concept lattice update algorithm. *Int. Journal of General Systems* **45**(2)(2016), pp. 211−231.
[Taylor & Francis Group, DOI 10.1080/03081079.2015.1072928, ISSN 0308−1079 (paper), 1563−5104 (online)]
IF: 1.637, citations (without selfcitations): 0 WoS, 0 total

[11] Impact of Boolean factorization as preprocessing methods for classification of Boolean data. *Annals of Mathematics and Artificial Intelligence* **72**(1−2)(2014), pp. 3−22 (coauthors Belohlavek R., Trnecka M.).
[Springer, DOI 10.1007/s10472-014-9414-x, ISSN 1012−2443 (paper), 1573−7470 (online)]
IF: 0.691, citations (without selfcitations): 2 WoS, 4 total

[10] Boolean factors as a means of clustering of interestingness measures of association rules. *Annals of Mathematics and Artificial Intelligence* **70**(1−2)(2014), pp. 151−184 (coauthors Belohlavek R., Grissa D., Guillaume S., Mephu Nguifo E.).
[Springer, DOI 10.1007/s10472-013-9370-x, ISSN 1012−2443 (paper), 1573−7470 (online)]
IF: 0.691, citations (without selfcitations): 0 WoS, 4 total

[9] Computing formal concepts by attribute sorting. *Fundamenta Informaticae* **115**(4)(2012), pp. 395−417 (coauthors Krajca P., Vychodil V.).
[IOS Press, DOI 10.3233/FI-2012-661, ISSN 0169−2968 (paper), 1875−8681 (online)]
IF: 0.399, citations (without selfcitations): 2 WoS, 3 total

[8] Fast Algorithm for Computing Fixpoints of Galois Connections Induced by Object-Attribute Relational Data. *Information Sciences* **185**(1)(2012), pp. 114−127 (coauthor Vychodil V.).
[Elsevier, DOI 10.1016/j.ins.2011.09.023, ISSN 0020−0255]
IF: 3.643, citations (without selfcitations): 13 WoS, 28 total

[7] Parallel Algorithm for Computing Fixpoints of Galois Connections. *Annals of Mathematics and Artificial Intelligence* **59**(2)(2010), pp. 257−272 (coauthors Krajca P., Vychodil V.).
[Springer, DOI 10.1007/s10472-010-9199-5, ISSN 1012−2443 (paper), 1573−7470 (online)]
IF: 0.430, citations (without selfcitations): 10 WoS, 26 total

[6] Computing the lattice of all fixpoints of a fuzzy closure operator. *IEEE Transactions on Fuzzy Systems* **18**(3)(2010), pp. 546−557 (coauthors Belohlavek R., De Baets B., Vychodil V.).
[IEEE, DOI 10.1109/TFUZZ.2010.2041006, ISSN 1063−6706]
IF: 2.695, citations (without selfcitations): 25 WoS, 47 total

[5] Inducing decision trees via concept lattices. *Int. Journal of General Systems* **38**(4)(2009), pp. 455−467 (coauthors Belohlavek R., De Baets B., Vychodil V.).

[Taylor & Francis Group, DOI 10.1080/03081070902857563, ISSN 0308–1079 (paper), 1563–5104 (online)]
IF: 0.611, citations (without selfcitations): 13 WoS, 26 total

[4] Characterizing trees in concept lattices. *Int. Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* **16**(1)(2008), pp. 1–15 (coauthors Belohlavek R., De Baets B., Vychodil V.).
[World Scientific, DOI 10.1142/S0218488508005212, ISSN 0218–4885 (paper), 1793–6411 (online)]
IF: 1.000, citations (without selfcitations): 3 WoS, 6 total

[3] Fast factorization by similarity of fuzzy concept lattices with hedges. *Int. Journal of Foundations of Computer Science* **19**(2)(2008), pp. 255–269 (coauthors Belohlavek R., Vychodil V.).
[World Scientific, DOI 10.1142/S012905410800567X, ISSN 0129–0541]
IF: 0.554, citations (without selfcitations): 6 WoS, 13 total

[2] Fast factorization by similarity in formal concept analysis of data with fuzzy attributes. *Journal of Computer and System Sciences* **73**(6)(2007), pp. 1012–1022 (coauthors Bělohlávek R., Dvořák J.).
[Elsevier, DOI 10.1016/j.jcss.2007.03.016, ISSN 0022–0000]
IF: 1.185, citations (without selfcitations): 17 WoS, 39 total

[1] Similarity clarification in formal concept analysis. *Journal of Electrical Engineering* **56**(12/s)(2005), pp. 41–45.
[Slovak University of Technology, ISSN 1335–3632]
Citations (without selfcitations): 0 WoS, 0 total

Conference Proceedings Papers

[23] Evaluating Association Rules in Boolean Matrix Factorization. In: Brejová B. (Ed.): Proceedings of the 16th ITAT Conference Information Technologies – Applications and Theory, ITAT 2016, Workshop on Computational Intelligence and Data Mining, WCIDM 2016, 2016, pp. 147–154, Tatranské Matliare, Slovakia, 9/2016 (coauthor Trnecka M.).
[CreateSpace Independent Publishing Platform, CEUR WS, Vol. 1649, ISBN 978–1537016740]
Citations (without selfcitations): 0 WoS, 1 total

[22] How to assess quality of BMF algorithms?. In: Yager R., Sgurev V., Hadjiski M., Jotsov V. (Eds.): Proceedings of the IEEE 8th International Conference on Intelligent Systems, IS 2016, 2016, pp. 227–233, Sofia, Bulgaria, 9/2016 (coauthors Belohlavek R., Trnecka M.).
[IEEE, DOI 10.1109/IS.2016.7737426, ISBN 978–1–5090–1353–8]
Citations (without selfcitations): 0 WoS, 1 total

[21] Scalable Performance of FCbO Update Algorithm on Museum Data. In: Huchard M., Kuznetsov S. O. (Eds.): CLA 2016: Proceedings of the 13th International Conference on Concept Lattices and Their Applications, 2016, pp. 363–376, Moscow, Russia, 7/2016 (coauthors Wray T., Eklund P.).
[National Research University Higher School of Economics, Moscow, Russia, CEUR WS, Vol. 1624, ISBN 978–5–600–01454–1]
Citations (without selfcitations): 0 WoS, 0 total

[20] A lattice-free concept lattice update algorithm based on *CbO. In: Ojeda-Aciego M., Outrata J. (Eds.): CLA 2013: Proceedings of the 10th International Conference on Concept Lattices and Their Applications, 2013, pp. 261–274, La Rochelle, France, 10/2013.
[Laboratory L3i, University of La Rochelle, La Rochelle, France, CEUR WS, Vol. 1062, ISBN 978–2–7466–6566–8]
Citations (without selfcitations): 0 WoS, 3 total

[19] Impact of Boolean factorization as preprocessing methods for classification of Boolean

data. In: Szathmary L., Priss U. (Eds.): CLA 2012: Proceedings of the 9th International Conference on Concept Lattices and Their Applications, 2012, pp. 305–316, Fuengirola (Málaga), Spain, 10/2012 (coauthors Belohlavek R., Trnecka M.).
[Universidad de Málaga, Málaga, Spain, CEUR WS, Vol. 972, ISBN 978–84–695–5252–0]
Citations (without selfcitations): 0 WoS, 1 total

[18] Using frequent closed itemsets for data dimensionality reduction. In: Cook D., Pei J., Wang W., Zaiane O., Wu X. (Eds.): Proceedings of the ICDM 2011, The 11th IEEE International Conference on Data Mining, 2011, pp. 1128–1133, Vancouver, Canada, 12/2011 (coauthors Krajca P., Vychodil V.).
[IEEE Computer Society, Conference Publishing Services, Los Alamitos, California, USA, DOI 10.1109/ICDM.2011.154, ISBN 978–0–7695–4408–3]
Citations (without selfcitations): 0 WoS, 6 total

[17] Boolean factors as a means of clustering of interestingness measures of association rules. In: Napoli A., Vychodil V. (Eds.): CLA 2011: Proceedings of the 8th International Conference on Concept Lattices and Their Applications, 2011, pp. 207–222, Nancy, France, 10/2011 (coauthors Belohlavek R., Grissa D., Guillaume S., Mephu Nguifo E.).
[INRIA Nancy – Grand Est and LORIA, Nancy, France, CEUR WS, Vol. 959, ISBN 978–2–905267–78–8]
Citations (without selfcitations): 0 WoS, 0 total

[16] Boolean factor analysis for data preprocessing in machine learning. In: Draghici S., Khoshgoftaar T. M., Palade V., Pedrycz V., Wani M. A., Zhu X. (Eds.): Proceedings of The Ninth Int. Conf. on Machine Learning and Applications (ICMLA 2010), 2010, pp. 899–902, Washington, D.C., USA, 12/2010.
[IEEE, DOI 10.1109/ICMLA.2010.141, ISBN 978–0–7695–4300–0]
Citations (without selfcitations): 2 WoS, 14 total

[15] Preprocessing input data for machine learning by FCA. In: Kryszkiewicz M., Obiedkov S. (Eds.): CLA 2010: Proceedings of the 7th International Conference on Concept Lattices and Their Applications, 2010, pp. 187–198, Sevilla, Spain, 10/2010.
[University of Sevilla, Sevilla, Spain, CEUR WS, Vol. 672, ISBN 978–84614–4027–6]
Citations (without selfcitations): 0 WoS, 6 total

[14] Advances in algorithms based on CbO. In: Kryszkiewicz M., Obiedkov S. (Eds.): CLA 2010: Proceedings of the 7th International Conference on Concept Lattices and Their Applications, 2010, pp. 325–337, Sevilla, Spain, 10/2010 (coauthors Krajca P., Vychodil V.).
[University of Sevilla, Sevilla, Spain, CEUR WS, Vol. 672, ISBN 978–84614–4027–6]
Citations (without selfcitations): 0 WoS, 30 total

[13] Parallel Recursive Algorithm for FCA. In: Belohlavek R., Kuznetsov S. O. (Eds.): CLA 2008: Proceedings of the Sixth International Conference on Concept Lattices and Their Applications, 2008, pp. 71–82, Olomouc, Czech Rep., 10/2008 (coauthors Krajca P., Vychodil V.).
[Palacký University Olomouc, Czech Rep., CEUR WS, Vol. 433, ISBN 978–80–244–2111–7]
Citations (without selfcitations): 0 WoS, 53 total

[12] Drawing lattices with a geometric heuristic. In: Yager R. R., Sgurev V. S., Jotsov V. S. (Eds.): Proceedings of IEEE CIS 2008: The Fourth International IEEE Conference on Intelligent Systems, 2008, pp. 1535–1541, Varna, Bulgaria, 9/2008.
[IEEE, New York, USA, DOI 10.1109/IS.2008.4670536, ISBN 978–1–4244–1740–7]
Citations (without selfcitations): 0 WoS, 2 total

[11] Inducing decision trees via concept lattices. In: Trappl R. (Ed.): Cybernetics and Systems 2008: Proceedings of the 19th European Meeting on Cybernetics and Systems Research,

2008, pp. 9–14, Vienna, Austria, 3/2008.
[Austrian Society for Cybernetics Studies, Vienna, Austria, ISBN 978–3–85206–175–7]
Citations (without selfcitations): 0 WoS, 0 total

[10] Direct factorization by similarity of fuzzy concept lattices by factorization of input data. In: Ben Yahia S., Mephu Nguifo E., Belohlavek R. (Eds.): Concept Lattices and their Applications, *Lecture Notes in Artificial Intelligence* **4923**, 2008, pp. 68–79, Hammamet, Tunisia, 10–11/2006 (coauthors Bělohlávek R., Vychodil V.).
[Springer–Verlag, Berlin Heidelberg, Germany, DOI 10.1007/978-3-540-78921-5_4, ISBN 978–3–540–78920–8, ISSN 0302–9743 (paper), 1611–3349 (online)]
Citations (without selfcitations): 1 WoS, 4 total

[9] Inducing decision trees via concept lattices. In: Diatta J., Eklund P., Liquière M. (Eds.): Proc. CLA 2007, 2007, pp. 274–285, Montpellier, France, 10/2007 (coauthors Bělohlávek R., De Baets B., Vychodil V.).
[LIRMM & University of Montpellier II, Montpellier, France, CEUR WS, Vol. 331]
Citations (without selfcitations): 0 WoS, 1 total

[8] Trees in concept lattices. In: Torra V., Narukawa Y., Yoshida Y. (Eds.): Modeling Decisions for Artificial Intelligence: 4th International Conference, *Lecture Notes in Artificial Intelligence* **4617**, 2007, pp. 174–184, Kitakyushu, Japan, 8/2007 (coauthors Bělohlávek R., De Baets B., Vychodil V.).
[Springer–Verlag, Berlin Heidelberg, Germany, DOI 10.1007/978-3-540-73729-2_17, ISBN 978–3–540–73728–5, ISSN 0302–9743]
Citations (without selfcitations): 2 WoS, 2 total

[7] Lindig's algorithm for concept lattices over graded attributes. In: Torra V., Narukawa Y., Yoshida Y. (Eds.): Modeling Decisions for Artificial Intelligence: 4th International Conference, *Lecture Notes in Artificial Intelligence* **4617**, 2007, pp. 156–167, Kitakyushu, Japan, 8/2007 (coauthors Bělohlávek R., De Baets B., Vychodil V.).
[Springer–Verlag, Berlin Heidelberg, Germany, DOI 10.1007/978-3-540-73729-2_15, ISBN 978–3–540–73728–5, ISSN 0302–9743]
Citations (without selfcitations): 9 WoS, 14 total

[6] On factorization by similarity of fuzzy concept lattices with hedges. In: Ben Yahia S., Mephu Nguifo E. (Eds.): Proc. 4th Int. Conf. on Concept Lattices and Their Applications, CLA 2006, 2006, pp. 57–69, Hammamet, Tunisia, 10–11/2006 (coauthors Bělohlávek R., Vychodil V.).
[Faculté des Sciences de Tunis, Université Centrale, Tunis, Tunisia, ISBN 978–9973–61–481–0]
Citations (without selfcitations): 0 WoS, 0 total

[5] Thresholds and shifted attributes in formal concept analysis of data with fuzzy attributes. In: Schärfe H., Hitzler P., Øhrstrøm P. (Eds.): Proc. 14th International Conference on Conceptual Structures, ICCS 2006, *Lecture Notes in Artificial Intelligence* **4068**, 2006, pp. 117–130, Aalborg, Denmark, 7/2006 (coauthors Bělohlávek R., Vychodil V.).
[Springer–Verlag, Berlin Heidelberg, Germany, DOI 10.1007/11787181_9, ISBN 3–540–35893–5, ISSN 0302–9743]
Citations (without selfcitations): 9 WoS, 16 total

[4] Similarity clarification in formal concept analysis. In: Zajac M. (Ed.): International Conference in Applied mathematics for undergraduate and graduate students, ISCAM 2005, 2005, pp. 41–45, Bratislava, Slovak Rep., 4/2005.
[Slovak University of Technology]
Citations (without selfcitations): 0 WoS, 0 total

[3] Direct factorization in formal concept analysis by factorization of input data. In: Proc. 5th Int. Conf. on Recent Advances in Soft Computing, RASC 2004, 2004, pp. 578–583,

Nottingham, UK, 12/2004 (coauthors Bělohlávek R., Dvořák J.).
[ISBN 1–84233–110–8]
Citations (without selfcitations): 0 WoS, 2 total

[2] Fast factorization by similarity in formal concept analysis. In: AISTA 2004 in Cooperation with the IEEE Computer Society Proceedings, 2004, pp. ?–?, Kirchberg – Luxembourg, Luxembourg, 11/2004 (coauthors Bělohlávek R., Dvořák J.).
[University of Canberra, Canberra, Australia, ISBN 2–9599776–8–8]
Citations (without selfcitations): 0 WoS, 0 total

[1] Fast factorization of concept lattices by similarity: solution and an open problem. In: Snášel V., Bělohlávek R. (Eds.): CLA 2004, Concept Lattice and their Applications, proceedings of the 2nd international workshop, 2004, pp. 47–57, Ostrava, Czech Rep., 9/2004 (coauthors Bělohlávek R., Dvořák J.).
[VŠB – Technical University of Ostrava, Ostrava, Czech Rep., CEUR WS, Vol. 110, ISBN 80–248–0597–9]
Citations (without selfcitations): 0 WoS, 10 total

Other Publications

[4] Computing and Applying Formal Concepts: Algorithms and Methods. Habilitation Thesis, 2015, iv+92 pp.
[Olomouc, Czech Rep.]

[3] Factorizing Fuzzy Concept Lattices by Similarity. Dissertation Thesis, 2006, iii+77 pp.
[Olomouc, Czech Rep.]

[2] Kernel, Linux kernel news (in Czech). LinuxEXPRES, (Czech) Linux magazine, 2005–2007, cca 50 columns (12 columns, 10 doublecolumns, 6 pages) pp.
[QCM, s.r.o., Brno, Czech Rep., ISSN 1214–8733 (paper), 1801–3996 (online)]

[1] Algorithms for drawing ordered sets and lattices (in Czech). Diploma Thesis, 2003, 74 pp.
[Olomouc, Czech Rep.]

Professional Activities

Membership

– Member ACM (Association for Computing Machinery)

Organization of Conferences

– Steering Committee member of CLA (Int. Conference on Concept Lattices and Their Applications)
– Program Co-Chair of CLA 2013 (with M. Ojeda-Aciego, University of Málaga, Spain), La Rochelle, France
– Program Committee member of international conferences and workshops CLA 2011 (Nancy, France), ICFCA 2012 (Leuven, Belgium), CLA 2012 (Fuengirola (Málaga), Spain), ICFCA 2013 (Dresden, Germany), ICFCA 2014 (Cluj–Napoca, Romania), FCA4AI 2014 (Praha, Czech Rep.), CLA 2014 (Košice, Slovakia), ICFCA 2015 (Nerja (Málaga), Spain), CLA 2015 (Clermont–Ferrand, France), CLA 2016 (Moscow, Russia), AFCADM 2016 (Moscow, Russia), CDUD 2016 (Moscow, Russia), SCAKD 2016 (Moscow, Russia), FCA4AI

2016 (Hague, Nederland), ICFCA 2017 (Rennes, France), CLA 2018 (Olomouc, Czech Republic)
- General Chair of SSIU 2012–2014 (Int. Spring/Summer School "Information and Uncertainty") and WIUI 2012–2014 (Int. Workshop "Information, Uncertainty, and Imprecision"), Olomouc, Czech Republic
- Organization Committee member of CLA 2005, CLA 2008 and CLA 2018, Olomouc, Czech Republic
- Session Chair at many international conferences and workshops

Reviews

- 20+ for peer-reviewed journals Fuzzy Sets and Systems, Information Sciences, Journal of Systems and Software, Int. Journal of General Systems, Annals of Mathematics and Artificial Intelligence, IEEE Transactions on Knowledge and Data Engineering, Int. Journal of Uncertainty, Fuzziness and Knowledge-Based Systems
- 40+ for international peer-reviewed conferences and workshops FUZZ IEEE 2007, EUSFLAT 2007, IEEE IS 2008, CLA 2008, 2011, 2012, 2014–2016, 2018, ICFCA 2012–2015, 2017, FCA4AI 2014, 2016

Invited Talks

Apr 2012 Institute of Algebra, Department of Mathematics, Faculty of Science, Technical University Dresden, Dresden, Germany

Feb 2012 Department of Data Analysis and Artificial Intelligence, School of Applied Mathematics and Information Science, National Research University, Higher School of Economics, Moscow, Russia

Feb 2012 Department of Data Analysis and Artificial Intelligence, School of Applied Mathematics and Information Science, National Research University, Higher School of Economics, Moscow, Russia

Feb 2012 Department of Data Analysis and Artificial Intelligence, School of Applied Mathematics and Information Science, National Research University, Higher School of Economics, Moscow, Russia

Mar 2009 Department of Systems Science and Industrial Engineering, Thomas J. Watson School of Engineering and Applied Science, Binghamton University – State University of New York, Binghamton, NY, USA

Organization of Research Seminars

2013–present Seminar on Information Science, Department of Computer Science, Faculty of Science, Palacký University Olomouc, Czech Republic

Further Work

2009–2010 FCALGS, efficient implementations of formal concept analysis (FCA) algorithms, http://fcalgs.sourceforge.net

2003 LatVis, software for automatic drawing of Hasse diagram of ordered sets and lattices, http://phoenix.inf.upol.cz/~outrata/latvis/

2006–2011 web pages of Department of Computer Science, Palacký University Olomouc, Czech Republic

Teaching

Courses at Palacký University Olomouc, Czech Republic

2016–present	Data Compression – graduate, initiated
2014–present	Unix-like Systems and Shell – undergraduate, initiated
2012–present	Computer Network Security – graduate, initiated
2012–2014	Information Theory and Coding – graduate
2011–present	Multimedia Systems – graduate, initiated
2009–present	Introduction to Information Technologies – undergraduate
2008–present	Computer Networks – undergraduate
2007-2012	Parallel Programming – undergraduate
2006–2010	Database Systems – undergraduate
2005–present	various seminars (introductory, computer typesetting, project, thesis) – undergraduate
2005–2010	programming courses (assembler, Visual Basic, C) – undergraduate
2005–2007	Fundamentals of Computer Science (formal concept analysis, clustering) – graduate
2001–2009	Operating Systems (practices) – undergraduate

Supervision of Students

– about 30 B.Sc. and 10 M.Sc. theses

Jan Outrata, September 12, 2018