Curriculum Vitae

I. Personal Data

Name:	**Mykola Pechenizkiy**	*Office*:	HG 7.82. Information Systems Group
Date of Birth:	July 10, 1979		Department of Computer Science
Place of Birth:	Kharkiv, Ukraine		Eindhoven University of Technology (TU/e)
Nationality:	Ukraine		P.O. Box 513, 5600 MB Eindhoven
Residence:	The Netherlands		The Netherlands
Civil Status:	Married, no children	*Tel.:*	+31(0)40 247 4977
Languages:	Russian and Ukrainian: native	*Fax*:	+31(0)40 246 3992
	English: fluent	*e-mail*:	m.pechenizkiy@tue.nl
	Dutch and Finnish: very basic	*www*:	http://www.win.tue.nl/~mpechen

II. Educational Qualifications

Year	Degree	University	Place	Subject
2005	Doctor of Philosophy (Ph.D.) Thesis: "Feature Extraction for Supervised Learning in Knowledge Discovery Systems"	University of Jyväskylä	Jyväskylä, Finland	Computer Science and Inf. Systems
2004	Licentiate of Philosophy (Ph.Lic) Thesis: "Feature Extraction for Classification: Issues of Intelligent Integration"	University of Jyväskylä	Jyväskylä, Finland	Computer Science and Inf. Systems
2001	Master of Science (M.Sc.) (Excellent M.Sc. Thesis Award) Thesis: "PCA-based FE for Classification"	University of Jyväskylä	Jyväskylä, Finland	Mobile Computing
2001	Master of Science (M.Sc.) (Diploma with Distinction) Thesis: "Computerised Adaptive Testing"	National Univ. of Radioelectronics	Kharkiv, Ukraine	Software Engineering
2000	Bachelor of Computer Science (B.Sc.) (Diploma with Distinction)	National Univ. of Radioelectronics	Kharkiv, Ukraine	Software Engineering

III. Professional Career

Time	Position	Institution
01.10.2006 – till now	Assistant Professor at Information Systems group	Dept. of CS, TU/e, the Netherlands
01.01.2006 – 30.09.2006	Researcher (Post-doctoral) *research interests*: time-series data mining (DM/KDD)	Faculty of IT, University of Jyväskylä, Finland
01.03.2002 – 31.12.2005	Researcher & Doctoral Student *research interests*: DM/KDD; feature extraction; ensembles	Dept. of CS & IS, University of Jyväskylä, Finland
Fall 2005	Part-time Lecturer, course taught – "Introduction to DM and KDD"	Dept. of CS & IS, University of Jyväskylä, Finland
15.01.2001 – 28.02.2002	Software Developer, System Architect	Niilo Mäki Institute, Finland

IV. Visiting Positions

Time	Institution	Financed by	Inviting Person
Oct 2007 (1 week)	Artificial Intelligence and Decision Support Lab (LIAAD), University of Porto, Portugal	U.Porto	Dr. Alípio Jorge & Dr. Carlos Soares, LIAAD, U.Porto
Aug 2007 (4 weeks)	Dept. of CS and IS, University of Jyväskylä, Finland	Academy of Finland	Prof. Seppo Puuronen, Dept of CS&IS, JYU
Nov 2006 (4 weeks)	Dept. of Math. IT, University of Jyväskylä, Finland	JYU & TU/e	Prof. Tommi Kärkkäinen, Dept of MIT, JYU
17.06.2005 – 6.08.2005	Machine Learning Group, Dept. CS, Trinity College Dublin, Ireland	TCD & JYU	Prof. Pádraig Cunningham Department of CS, TCD
31.03.2003 – 30.04.2003	Machine Learning Group, Dept. CS, Trinity College Dublin, Ireland	TCD & JYU	Prof. Pádraig Cunningham Department of CS, TCD
01.09.2002 – 30.11.2002	NI Knowledge Engineering Lab, University of Ulster, U.K.	U.Ulster & JYU	Dr. David W. Patterson, Faculty of Informatics, U.Ulster

V. Teaching

Time	Title	Responsibility	Institution
Spring 2008	Information Systems seminar	Mede-docent	TU/e, the Netherlands
Spring 2008	Human-Machine Interaction	Instructor	TU/e, the Netherlands
Autumn 2007	Data Modeling and Databases	Instructor	TU/e, the Netherlands
Autumn 2007	Information Retrieval	Lecturer	TU/e, the Netherlands
Spring 2007	Information Retrieval and Data Mining	Lecturer	TU/e, the Netherlands
Nov 2006	Introduction to Business Intelligence and Data Mining	Lecturer	JYU, Finland
Sep 2005	Introduction to Data Mining and Knowledge Discovery from Databases (an intensive two-week course)	Lecturer	JYU, Finland

VI. Supervision of MSc and PhD Students

Time	Thesis Title	Student	Institution
Feb 2008 – Jan 2011	Generic Adaptation Framework (PhD; co-promoter)	Evgenii Knutov	TU/e
Mar - Sep 2008	Cross Channel Self Service Usage Analysis (MSc)	Guido Budziak	TU/e & Adversitement B.V.
Mar - Sep 2008	Data driven knowledge-based systems for stock replenishments (MSc)	Patrick Meulstee	TU/e & Sligro Foodgroup NV
Jun – Dec 2007	Tracking the Brain Selecting Internet Information: an Eye-Tracking Study on Evaluation Criteria (MSc)	Ludo W. van Meeuwen	TU/e & OU Nederlands
Feb - Jun 2007	Automatic classification of Dutch legal documents (MSc)	S.W. (Bas) Gijzen	TU/e & C-Content

VII. Other Professional Activities

Organizing Committee:

- 21st IEEE Symposium on Computer-Based Medical Systems (IEEE CBMS 2008) Programme Chair;
- Knowledge Discovery and Knowledge-based Techniques and Systems in Medicine (KDM'08) Special Track Chair;
- Dutch-Belgian Database Day (DBDBD'07) Local co-organizer;
- Data Mining in Bioinformatics (IEEE DMB 2007) Steering Committee Member
- Educational Data Mining (EDM@ICALT07) Workshop Co-Chair at IEEE ICALT'07;
- Applying Data Mining in e-Learning (ADML'07) Workshop Co-Chair at EC-TEL'2007;
- Data Mining Special Track Chair at IEEE CBMS'07, IEEE CBMS'06, and IEEE CBMS'05;
- IEEE CBMS'06 Special Tracks Co-Chair;
  Philosophies and Methodologies for Knowledge Discovery (PMKD'06) Workshop Co-chair.

Program Committee:

- ECML/PKDD'08 European Conference on Machine Learning,
- EDM'08 The First Int. Conference on Educational Data Mining
- DMBiz'07 Workshop on Data Mining for Business (at PAKDD'07),
- SUEMA'08, SUEMA'07 Workshop on Supervised and Unsupervised Ensemble Methods and Their Applications (at ECAI08, IbPRIA'2007);
- IEEE CBMS'07, IEEE CBMS'06, IEEE CBMS'05;
- IEEE ISDA'06 Int. Conf. on Intelligent System Design and Applications
- DMBiz'06 Workshop Practical Data Mining: Experiences and Challenges (at ECML/PKDD'06);
- IEEE PMKD'05, IEEE PMKD'06 Workshops on Philosophies and Methodologies for Knowledge Discovery (at DEXA)

Reviewer (but not in PC):

- ACM KDD'07, ICIC 2007, ICIT08

Reviewer in Journal:

- Information Sciences (Elsevier), since 2005
- IEEE Transactions on IT in Biomedicine, since 2005
- IEEE Transactions on Biomedical Engineering, since 2006
- IEEE Transactions on Pattern Analysis and Machine Intelligence, since 2006
- Information Fusion (Elsevier), since 2006
- Intelligent Data Analysis (IOS Press), since 2007
- Data & Knowledge Engineering (Elsevier), since 2007
- Methods of Information in Medicine (IMIA), since 2007

External reviewer/committee member

- of several M.Sc. theses in Computer Science, Computer Science & Engineering, and Business Information Systems programs on various topics of applying machine learning, data mining, and adaptive systems approaches to different application areas.

VIII. Grants and Awards

- Academy of Finland visiting grant (2 month during 2007-2008)
- Student grant from IJCAI-05 Travel Grant Program, 2005
- Excellent M. Sc. Thesis Award, MIT department, University of Jyväskylä, Finland, 2001.
- Diploma with Distinction (M.Sc. 2001). National University of Radioelectronics, Ukraine.
- Diploma with Distinction (B.Sc. 2000). National University of Radioelectronics, Ukraine.
- Grant from the University of Jyväskylä, Finland, 1.09.2000 – 31.12.2000.

IX. Scientific Interests and Research Collaboration

My research interests include knowledge discovery from databases (KDD) and data mining (DM), feature transformation and feature selection for classification, instance-based and local learning algorithms, ensemble

learning, concept drift and context-awareness, and the application of DM/KDD to industrial problems in control, to medicine (including microbiology and bioinformatics), and to educational domain.

Taking a historical perspective,

- my undergraduate research focus was in **decision making in the semi-structured domains** with the use of intelligent agents (domain area: *chess*).
- My research focus during graduate and postgraduate studies has been in **feature extraction for supervised learning in knowledge discovery systems**. These efforts resulted in Ph.D. thesis, besides several (co-) authored papers.
- Other area of my research effort has been in the direction of **ensemble classification**, **ensemble feature selection** (EFS), and study of **diversity** in search strategies for ensemble feature selection.
- After obtaining PhD I spent some time on applying DM for industrial time-series data (sensor data from CFB-boilers).
- Some of the recent research efforts have been directed towards studying the **competitive advantage from DM** and **rigor and relevance in DM research** that resulted in a few position papers.
- Besides this I have been interested also in applying **AI and KDD/DM techniques for computerised adaptive web-based systems (*e*Health, *e*Learning, *e*Culture, *e*Entertainment)**. These include problems of user modeling, personalization, expert system design, knowledge management, and item response modeling. Some years ago I did my Master in Ukraine in this area and recently, after joining IS group in TU/e, this line of research has been reinforced and I am focusing on **applying machine learning for modeling changing user interests in adaptive hypermedia applications**.

My other interests are in philosophy of mind, general problems of human and artificial intelligence, learning, and cognitive psychology.

In my research I try to maintain a tight collaboration with the following research groups:

- *Machine Learning Group*, Trinity College Dublin, Ireland (Prof. Padraig Cunningham; NB: moved to UCD)
- *Northern Ireland Knowledge Engineering Laboratory*, University of Ulster, UK (Dr. David Patterson)
- *Microbiology Laboratory*, Moscow Neurosurgery Hospital, Russian Academy of Medical Sciences, Moscow, Russia (Prof. Mihail Shifrin)
- *Faculty of Information Technology (both Departments of CS&ISs and MIT), University of Jyväskylä,* Jyväskylä, Finland (Prof. Seppo Puuronen, Prof. Tommi Kärkkäinen)
- *Niilo Mäki Institute,* Jyväskylä, Finland (Psyc. Lic. Pekka Räsänen, Prof. Heikki Lyytinen)
- *Siemens AG,* Erlangen, Germany (Dr. Alexey Tsymbal)
- *VTT Processes, VTT (Technical Research Centre of Finland),* Jyväskylä, Finland (Antti Touronen)

X. Publications:

International refereed journals

1. Tsymbal A., Pechenizkiy M., Cunningham P., Puuronen S. 2008. Dynamic Integration of Classifiers for Handling Concept Drift. *Information Fusion 9(1), Special Issue "Applications of Ensemble Methods",* Elsevier Science, pp. 56-68
2. Pechenizkiy M., Puuronen S., Tsymbal A. 2008. Towards More Relevance-Oriented Data Mining Research, *Intelligent Data Analysis 12,* IOS Press, pp. 1-13.
3. Pechenizkiy M., Tsymbal A., Puuronen S., Patterson D.W. 2007. Feature extraction for dynamic integration of classifiers. Fundamenta Informaticae 77(3), IOS Press, pp. 243-275.
4. Vasilyeva E., Puuronen S., Pechenizkiy M., Räsänen P. 2007. Feedback adaptation in web-based learning systems. the Special Issue of International Journal of Continuing Engineering Education and Life-Long Learning 17(4-5), pp. 337-357 (IJCEELL)
5. Pechenizkiy M., Tsymbal A., Puuronen S. 2006. Supervised Learning and Local Dimensionality Reduction within Natural Clusters: Biomedical Data Analysis, *IEEE Transactions on Information Technology in Biomedicine 10*(3), Special Post-conference Issue "Mining Biomedical Data", pp. 533- 539.
6. Pechenizkiy M., Tsymbal A., Puuronen S. 2006. On Combining Principal Components with Fisher's Linear Discriminants for Supervised Learning. *Foundations of Computing and Decision Sciences 31*(1), Special Issue "Data Mining and Knowledge Discovery",* pp. 59-73.
7. Tsymbal A., Pechenizkiy M., Cunningham P. 2005. Diversity in Search Strategies for Ensemble Feature Selection. *Information Fusion 6*(1), Special Issue "Diversity in Multiple Classifier Systems",* Elsevier Science, pp. 83-98.

- *Contributions to books*

8. Pechenizkiy M., Puuronen S., Tsymbal A. 2008. Does the relevance of data mining research matter? (to appear) In: *Foundations of Data Mining*, Springer.
9. Pechenizkiy M., Tsymbal A., Puuronen S., Shifrin M., Alexandrova I. 2005. Knowledge Discovery from Microbiology Data: Many-sided Analysis of Antibiotic Resistance in Nosocomial Infections. In: *Professional Knowledge Management: Experiences and Visions*, Springer, pp. 360-372.

International refereed conferences

10. Vasilyeva, E., De Bra, P., Pechenizkiy, M., and Puuronen, S. 2008. Tailoring feedback in online assessment: influence of learning styles on the feedback preferences and elaborated feedback effectiveness, (to appear) In: Proc. of Int. Conf. on Advance Learning Technologies (ICALT'08), IEEE CS Press.

11. Vasilyeva, E., Pechenizkiy, M., and De Bra, P. 2008. Adaptation of Elaborated Feedback in e-Learning, (to appear) In: *Proc. of 5th Int. Conf. on Adaptive Hypermedia and Adaptive Web-Based Systems* (AH'2008).

12. Vasilyeva, E., Pechenizkiy, M., and De Bra, P. 2008. Tailoring of feedback in web-based learning: the role of response certitude in the assessment, (to appear/short paper) In: *Proc.* of *Int. Conf. Intelligent Tutoring Systems* (ITS'08), LNCS, Springer.

13. Puuronen S., Pechenizkiy M., Tsymbal A. 2008. Effectiveness of Local Feature Selection in Ensemble Learning for Prediction of Antimicrobial Resistance. (to appear) In: Proc. of 21st IEEE Int. conf. on Computer-Based Medical Systems (CBMS'08), IEEE CS Press.

14. Vasilyeva E., Pechenizkiy M., Gavrilova T., Puuronen S. 2007. Personalization of Immediate Feedback to Learning Styles, In: *Proc. of 7th IEEE Int. Conf. on Advanced Learning Technologies. (ICALT'07),* IEEE CS Press, pp. 622-624.

15. Pechenizkiy, Tsymbal A., Puuronen S., Pechenizkiy O. 2006. Class Noise and Supervised Learning in Medical Domains: The Effect of Feature Extraction. In: *Proc. of 19th IEEE Int. Symposium on Computer-Based Medical Systems CBMS'06*, IEEE CS Press, pp. 708-713.

16. Tsymbal A., Pechenizkiy M., Cunningham P., Puuronen S. 2006. Handling Local Concept Drift with Dynamic Integration of Classifiers: Domain of Antibiotic Resistance in Nosocomial Infections. In: *Proc. of 19th IEEE Int. Symposium on Computer-Based Medical Systems CBMS'06*, IEEE CS Press, pp. 679-684.

17. Pechenizkiy M., Tourunen A., Kärkkäinen T., Ivannikov A., Nevalainen H. 2006. Towards Better Understanding of Circulating Fluidized Bed Boilers: a Data Mining Approach. In: *Proc. of 2nd Workshop on Practical Data Mining: Applications, Experiences and Challenges DMBiz'06 (ECML/PKDD'06)*, pp. 80-83.

18. Tsymbal A., Pechenizkiy M., Cunningham P. 2006. Dynamic Integration with Random Forest. In: *Proc. of 17th European Conf. on Machine Learning (ECML/PKDD'06)*, LNAI 4212, Heidelberg, Springer Verlag, pp. 801-808.

19. Pechenizkiy M., Puuronen S., Tsymbal A. 2006. The Impact of Sample Reduction on PCA-based Feature Extraction for Supervised Learning. In: *Proc. the 21st ACM Symposium on Applied Computing* (ACM SAC'06 Data Mining Track), ACM Press, pp. 553-558.

20. Tsymbal A., Pechenizkiy M., Cunningham P. 2005. Sequential Genetic Search for Ensemble Feature Selection. In: *Proc. 19th International Joint Conference on Artificial Intelligence, IJCAI'05*, pp. 877-882.

21. Pechenizkiy M. 2005. Impact of the Feature Extraction on the Performance of a Classifier: kNN, Naïve Bayes and C4.5. In: *Proc. of 18th CSCSI Conference on Artificial Intelligence AI'05*, LNAI 3501, Springer, pp. 268-279.

22. Pechenizkiy M., Tsymbal A., Puuronen S. 2005. Local Dimensionality Reduction within Natural Clusters for Medical Data Analysis. In: *Proc. 18th IEEE Int. Symp. on Computer-Based Medical Systems CBMS'05*, IEEE CS Press, pp. 365-370.

23. Vasilyeva E., Pechenizkiy M., Puuronen S. 2005. Towards the Framework of Adaptive User Interfaces for eHealth. In: *Proc. 18th IEEE Int. Symp. on Computer-Based Medical Systems CBMS'05*, IEEE CS Press, 139-144.

24. Vasilyeva E., Pechenizkiy M., Puuronen S. 2005. Knowledge Management Challenges in Web-Based Adaptive e-Learning Systems. In: *Proc of 5th Int. Conf. on Knowledge Management I-KNOW '05*, J.UCS with Springer, pp. 112-119.

25. Pechenizkiy M. 2005 Data mining strategy selection via empirical and constructive induction. In: *Proc. of the Int. Conf. on Databases and Applications DBA'05*, ACTA Press, pp. 59-64.

26. Pechenizkiy M., Puuronen S., Tsymbal A. 2005. On the Use of Information Systems Research Methods in Data Mining. In: *Proc. of 13th Int. Conf. on Information Systems Development: Advances in Theory, Practice and Education ISD'04*, Springer, pp. 487-499.

27. Tsymbal A., Pechenizkiy M. and Cunningham P. 2004. Diversity in random subspacing ensembles. In: *Proc. of 6th Int. Conf. on Data Warehousing and Knowledge Discovery DaWaK'04*, LNCS 3181, Springer, pp. 309-319.

28. Pechenizkiy M., Tsymbal A., Puuronen S. 2004. Meta-Knowledge Management in Multistrategy Process-Oriented Knowledge Discovery Systems. In: *Proc. of 13th Int. Conf. on Information Systems Development. Advances in Theory, Practice and Education,* Technika, pp. 317-328.

29. Pechenizkiy M., Tsymbal A., Puuronen S. 2004. PCA-based feature transformation for classification: issues in medical diagnostics. In: R. Long et al. (Eds.), *Proc. 17th IEEE Int. Symp. on Computer-Based Medical Systems CBMS'04*, IEEE CS Press, pp. 535-540.

30. Pechenizkiy M., Puuronen S., Tsymbal A. 2003. Feature extraction for classification in knowledge discovery systems. In: *Proc. 7th Int. Conf. on Knowledge-Based Intelligent Information & Engineering Systems KES'2003*, Lecture Notes in Artificial Intelligence, Vol.2773, Heidelberg: Springer-Verlag, pp. 526-532.

31. Pechenizkiy M., Puuronen S., Tsymbal A. 2003. Feature Extraction for Classification in the Data Mining Process: In: Gladun V.P., Markov K. (Eds.) *Proc. 10th Int. Conf. Knowledge-Dialogue-Solution, KDS'03*, 321-329.

32. Tsymbal A., Cunningham P., Pechenizkiy M., Puuronen S. 2003. Search strategies for ensemble feature selection in medical diagnostics. In: M. Krol, S. Mitra, D.J. Lee (Eds.), *Proc. 16th IEEE Int. Symp. on Computer-Based Medical Systems CBMS'03*, The Mount Sinai School of Medicine, NY, IEEE CS Press, pp. 124-129.

33. Tsymbal A., Pechenizkiy M., Puuronen S., Patterson D.W. 2003. Dynamic integration of classifiers in the space of principal components. In: *Proc. Advances in Databases and Information Systems, ADBIS'03*, LNCS, Vol. 2798, Springer-Verlag, pp. 278-292.

34. Tsymbal A., Puuronen S., Pechenizkiy M., Baumgarten M., Patterson D. 2002. Eigenvector-based Feature Extraction for Classification. In: *Proc. 15th Int. FLAIRS Conf. on Artificial Intelligence*, AAAI Press, pp. 354-358.

35. Puuronen S., Patterson D., Tsymbal A., Pechenizkiy M. 2002. Dimensionality Reduction for Classification Tasks Modelling. In *Proc. 43rd Scandinavian Conference on Simulation and Modelling, SIMS'02*, Oulu, Finland, Finnish Society of Automation, pp. 35-44.

International refereed workshops

36. Pechenizkiy M., Calders T. 2007. A Framework for Guiding the Museum Tour Personalization. In: *Proc. of Int. Workshop on Personalization Enhanced Access to Cultural Heritage (UM 2007)*, pp. 11-28.

37. Vasilyeva E., Pechenizkiy M., De Bra P. 2007. Adaptation of Feedback in e-learning System at Individual and Group Level, In: *Proc. of PING 2007 Int. Workshop on Personalization in E-Learning Environments at Individual and Group Level (UM 2007).*

38. Puuronen S., Pechenizkiy M., Tsymbal A. 2006. Data Mining Researcher, Who is Your Customer? Some Issues Inspired by Information Systems Field. In: *Proc. IEEE DEXA Workshop on Philosophies and Methodologies for Knowledge Discovery PMKD'06*, pp. 579-583.

39. Vasilyeva, E., Pechenizkiy M., Puuronen S. 2006. The Challenge of Feedback Personalization to Learning Styles in WBLS. In: *Proc. of Workshop on Adaptive Web-Based Education and Learning Styles* and short version in *IEEE ICALT'06*, pp. 1143-1144.

40. Pechenizkiy M., Tsymbal A., Puuronen S. 2005. On Combining Principal Components with Parametric LDA-based Feature Extraction for Supervised Learning. In: T.Morzy et al. (Eds.), *Proc. of 1st Int. Workshop on Data Mining and Knowledge Discovery, ADMKD'05*, pp. 47-56.

41. Pechenizkiy M., Puuronen S., Tsymbal A. 2005. Why Data Mining Does Not Contribute to Business? In: *Proc. of Data Mining for Business Workshop, DMBiz'05 (ECML/PKDD'05)*, Porto, Portugal , pp. 67-71.

42. Pechenizkiy M., Tsymbal A., Puuronen S. 2005. Knowledge Management Challenges in Knowledge Discovery Systems. In: *6th IEEE DEXA Workshop on Theory and Applications of Knowledge Management TAKMA'05*, IEEE CS Press, pp. 433-437.

43. Pechenizkiy M., Puuronen S., Tsymbal A. 2005. Competitive advantage from Data Mining: Lessons learnt in the Information Systems field. In: *IEEE DEXA Workshop on Philosophies and Methodologies for Knowledge Discovery PMKD'05*, IEEE CS Press, pp. 733-737.

44. Tsymbal A., Pechenizkiy M., Puuronen S., Shifrin M., Alexandrova I. 2005. Knowledge discovery in microbiology data: analysis of antibiotic resistance in nosocomial infections. In: *Int. Workshop on Current Aspects of Knowledge Management in Medicine*, pp. 334-340.

45. Vasilyeva E., Puuronen S., Pechenizkiy M. 2005. Feedback Adaptation in Web-based Applications. In: Proc. *Int. Workshop on Combining Intelligent and Adaptive Hypermedia Methods/Techniques in Web-based Education Systems*, Salzburg, Austria.

46. Pechenizkiy M., Puuronen S., Tsymbal A. 2004. The iterative and interactive data mining process: the information systems development and knowledge management perspectives. In *Proc. 4th Int. IEEE ICDM'04 Workshop Foundations of Data Mining FDM'04*, pp. 129-136.

Edited volumes/Editorials

47. Puuronen S., Pechenizkiy M., Tsymbal A., Lee D.J. 2008. (to appear) *Proc. of 21st IEEE International Symposium on Computer-Based Medical Systems*, IEEE CS Press.
48. Beck J.E., Calders T., Pechenizkiy M., Viola S.R. 2007. Workshop on Educational Data Mining (EDM@ICALT07), In: *Proc. of 7th IEEE Int. Conf. on Advanced Learning Technologies. (ICALT 2007),* IEEE CS Press.
49. Romero C., Pechenizkiy M., Calders T., Viola S.R. 2007. (Eds.) Workshop on Applying Data Mining in e-Learning.
50. Rennolls K., Delisle S., Pechenizkiy M. 2006. (Eds.) 2nd International Workshop on Philosophies and Methodologies for Knowledge Discovery, Deployment, and Development of Decision Support Systems (PMKD'06), IEEE CS Press, pp. 577-578.