

List of publications

A. Selected papers:

1. Alina Maria Ciobanu, Liviu P. Dinu, 2014. *An Etymological Approach to Cross-Language Orthographic Similarity. Application on Romanian*. In Proc. **EMNLP 2014** (Conference on Empirical Methods in Natural Language Processing), October 25–29, 2014, Doha, Qatar.
2. Alina Maria Ciobanu, Liviu P. Dinu, 2014. *Automatic Detection of Cognates Using Orthographic Alignment*. In Proc. **ACL (2) 2014** (the 52nd Annual Meeting of the Association for Computational Linguistics), June 22-27, 2014, Baltimore, MD, USA, p. 99-105.
3. Ioana Chitoran, Alina Ciobanu, Liviu P. Dinu, Vlad Niculae, 2014. *Using a machine learning model to assess the complexity of stress systems*. In Proc. **LREC 2014** (9th International Conference on Language Resources and Evaluation), Reykjavik, Iceland, 26-31 may 2014, p. 331-336.
4. Liviu P. Dinu, Radu-Tudor Ionescu, 2014. *Clustering based on median and closest string via rank distance with applications on DNA*. **Neural Computing and Applications** 24(1), p. 77-84 (2014)
5. Liviu P. Dinu, Radu-Tudor Ionescu, 2012. *An Efficient Rank Based Approach for Closest String and Closest Substring*. **PLoS ONE** 7(6):e37576.doi:10.1371/journal.pone.0037576.
6. Liviu P. Dinu, Iulia Iuga, 2012. *The Naive Bayes Classifier in Opinion Mining: In Search of the Best Feature Set*. In Proc. **CICLing 2012** (Computational Linguistics and Intelligent Text Processing - 13th International Conference), New Delhi, India, March 11-17, 2012, LNCS, Springer, p. 556-567
7. Liviu P. Dinu. 2009. *On the insertion grammars with parallel derivation*. **Fundamenta Informaticae**, 93 (4), p. 357-369
8. Liviu P. Dinu, Marius Popescu, Anca Dinu, 2008. *Authorship identification of Romanian texts with controversial paternity*. In Proc. **LREC 2008** (The 6th International Language Resources and Evaluation), 28-30 may 2008, Marrakech, Maroc, p. 3392-3397
9. Liviu P. Dinu, Marius Popescu, 2008. *A multi-criteria decision method based on rank distance*. **Fundamenta Informaticae**, 86(1-2), p. 79-91
10. Liviu P. Dinu, Florin Manea, 2006. *An efficient approach for the rank aggregation problem*. **Theoretical Computer Science**, 359 (1-3), p. 455-461.

B. Dissertations:

1. Aspecte cantitative in studiul limbajelor. *PhD Thesis*, University of Bucharest, Bucharest, Romania, 2003 (supervisor Acad. Solomon Marcus)

C. Books and chapters in books:

1. Books:

- (i) Liviu P. Dinu, 2004. *Metode Formale si de Clasificare in Lingvistica Matematica si Computationala*. Editura Universitatii din Bucuresti, 2004, Romania (ISBN 973-575-928-4).
- (ii) Liviu P. Dinu. *Rank distance and applications*, 2010. Editura Universitatii din Bucuresti, 2010 Romania (ISBN 978-973-737-800-2).

2. Chapters in books:

- i. Liviu P. Dinu, Octavia-Maria Şulea, 2013. *Theoretical and Computational Aspects of Romanian Morphology*. In: *Towards Multilingual Europe 2020: A Romanian perspective*, Editors: Dan Tufiş, Vasile Rus, Corina Forăscu. Editura Academiei Romane, 2013 (ISBN 978-973-27-2282-4.), p. 37-56.
- ii. Liviu P. Dinu and Andrea Sgarro, 2011. *Estimating Similarities in DNA Strings Using the Efficacious Rank Distance Approach*. In *Systems and Computational Biology - Bioinformatics and Computational Modeling*, Editor Ning-Sun Yang, (ISBN: 978-953-307-875-5), InTech publisher, p. 121-138.
- iii. Liviu P. Dinu, Denis Enachescu, 2007. *Languages Similarity: Measuring and Testing*. In *Recent Advances in Stochastic Modelling and Data Analysis*, ed. Christos H. Skiadas. Publisher: World Scientific Publishing Co Pte Ltd, (ISBN - 13 978-981-270-968-4, ISBN-10 981-270-968-1), p. 512-520.
- iv. Liviu P. Dinu, Denis Enachescu, 2007. *On clustering Romance languages*. In *Recent Advances in Stochastic Modelling and Data Analysis*, ed. Christos H. Skiadas. Publisher: World Scientific Publishing Co Pte Ltd., (ISBN -13 978-981-270-968-4, ISBN-10 981-270-968-1), p. 521-529.

D. Journal Papers:

1. Liviu P. Dinu, Radu Gramatovici, Florin Manea, 2014. *Syllabic Languages and Go-through Automata*. **Fundamenta Informaticae** 131(3-4), p. 409-424 (2014)
2. Liviu P. Dinu, Radu-Tudor Ionescu, 2014. *Clustering based on median and closest string via rank distance with applications on DNA*. **Neural Computing and Applications** 24(1), p. 77-84 (2014)
3. Liviu P. Dinu, Radu-Tudor Ionescu, Alexandru Tomescu, 2014. *A Rank-Based Sequence Aligner with Applications in Phylogenetic Analysis*. **PLoS ONE** 9(8): e104006. doi:10.1371/journal.pone.0104006
4. Liviu P. Dinu, Radu-Tudor Ionescu, 2012. *An Efficient Rank Based Approach for Closest String and Closest Substring*. **PLoS ONE** 7(6):e37576.doi:10.1371/journal.pone.0037576
5. Iulia Danaila, Liviu P. Dinu, Vlad Niculae and Maria-Octavia Sulea, 2012. *String distances for near-duplicate detection*. **Polibits** 45, 21-26, 2012.
6. Luca Bortolussi, Liviu P. Dinu, Andrea Sgarro. 2012. *Spearman Permutation Distances and Shannon's Distinguishability*, **Fundamenta Informaticae** 118 (3), 245-252.
7. Liviu P. Dinu, 2010. *Contextual grammars and linguistic segmentation*. **Analele Univ. din Bucuresti**, seria matematica-Informatica, p. 5-16, LIX, 2010
8. Liviu P. Dinu. 2009. *On the insertion grammars with parallel derivation*. **Fundamenta Informaticae**, 93 (4), p. 357-369

9. Liviu P. Dinu, Andrea Sgarro, 2008. *Maximal rank distance for binary sequences*. **Mathematica Pannonica**, 19(1), 125-135 (ISSN 0865-2090).
10. Liviu P. Dinu, Marius Popescu, 2008. *A multi-criteria decision method based on rank distance*. **Fundamenta Informaticae**, 86(1-2), p. 79-91.
11. Liviu P. Dinu, Ioan Tomescu, 2008. *From rankings' collinearity to counting SDR via chromatic list expression*, **Int. J. of Computing Mathematics**, 86(9), p. 1483-1489.
12. Liviu P. Dinu, Andrea Sgarro, 2008. *L'ordine delle parole*. **Rivista internazionale di tecnica della traduzione-Int. J. of Translation**, 10 (2008), p. 71-80. (ISBN 978-88-8303-253-0, Edizioni Universita di Trieste)
13. Liviu P. Dinu. *From natural language processing to computational biology and back*. In **Grigore C Moisil and his followers**. Publishing House of the Romanian Academy, Bucharest, 2007, p. 319-325.
14. Liviu P. Dinu, Florin Manea, 2006. *An efficient approach for the rank aggregation problem*. **Theoretical Computer Science**, 359 (1-3), p. 455-461.
15. Liviu P. Dinu, Andrea Sgarro, 2006. *A low-complexity distance for DNA strings*, **Fundamenta Informaticae**, 73(3), 361-372.
16. Liviu P. Dinu, 2006. *On the quantitative and formal aspects of the Romanian syllables*, **Revue Roumaine de Linguistique**, LI(3-4), 477-498.
17. Liviu P. Dinu, 2005. *A linear-time approach for the similarity of rankings*. **Analele Universitatii Bucuresti**, seria Matematica –Informatica, LIV, p. 45-55.
18. Liviu P. Dinu, 2005. *Rank Distance with Applications in Similarity of Natural Languages*. **Fundamenta Informaticae**, 64(1-4), p. 135-149.
19. Liviu P. Dinu, 2004. *Quantitative aspects in the study of languages*. **Bull. of EATCS**, 82 (February), p. 380-382.
20. Liviu P. Dinu, 2003. *On the classification and aggregation of hierarchies with different constitutive elements*. **Fundamenta Informaticae**, 55(1), p. 39-50.
21. Liviu P. Dinu, 2003. *An approach to syllables via some extensions of Marcus-contextual grammars*. **Grammars** 6(1), p. 1-12.
22. Liviu P. Dinu, 2003. *Rank distance in Mathematical Linguistics*. **Analele Universitatii Bucuresti**, seria Matematica -Informatica, LII(1), p. 67-73.
23. Liviu P. Dinu, 2003. *On the density of certain languages*. **Romanian Journal of Information Science and Technology**, 6(3-4), p. 275-281.
24. Andrea Sgarro, Liviu P. Dinu 2002. *Possibilistic entropies and the compression of possibilistic data*. **International Journal of Uncertainty, Fuzziness and Knowledge-based Systems**, 10(6), p. 635-653.
25. Liviu P. Dinu, 1997. *The alphabet of syllables with applications in the study of rime frequency*. **Analele Universitatii din Bucuresti**, seria matematica-informatica, XLVI (1), p. 39-44.

E. Conference proceedings:

26. Alina Maria Ciobanu, Liviu P. Dinu, 2014. *An Etymological Approach to Cross-Language Orthographic Similarity. Application on Romanian*. In Proc. **EMNLP 2014** (Conference on Empirical Methods in Natural Language Processing), October 25–29, 2014, Doha, Qatar (accepted)
27. Alina Maria Ciobanu, Liviu P. Dinu, 2014. *Automatic Detection of Cognates Using Orthographic Alignment*. In Proc. **ACL (2) 2014** (the 52nd Annual Meeting of the

- Association for Computational Linguistics), June 22-27, 2014, Baltimore, MD, USA, p. 99-105.
28. Alina Maria Ciobanu, Anca Dinu, Liviu P. Dinu, 2014. *Predicting Romanian Stress Assignment*. In Proc. **EACL 2014** (the 14th Conference of the European Chapter of the Association for Computational Linguistics), April 26-30, 2014, Gothenburg, Sweden, p. 64-68.
 29. Vlad Niculae, Marcos Zampieri, Liviu P. Dinu, Alina Maria Ciobanu, 2014. *Temporal Text Ranking and Automatic Dating of Texts*. In Proc. **EACL 2014** (the 14th Conference of the European Chapter of the Association for Computational Linguistics), April 26-30, 2014, Gothenburg, Sweden, p. 17-21.
 30. Alina Maria Ciobanu, Liviu P. Dinu, 2014. *A Quantitative Insight into the Impact of Translation on Readability*. In Proc. **PITR 2014** (3rd Workshop on Predicting and Improving Text Readability for Target Reader Populations; co-located with EACL 2014), April 26-30, 2014, Gothenburg, Sweden, p. 104-113.
 31. Anca Dinu, Liviu P. Dinu, Ionut Sorodoc, 2014. *Aggregation methods for efficient collocation detection*. In Proc. **LREC 2014** (9th International Conference on Language Resources and Evaluation), Reykjavik, Iceland, 26-31 may 2014, p. 4041-4045
 32. Ioana Chitoran, Alina Ciobanu, Liviu P. Dinu, Vlad Niculae, 2014. *Using a machine learning model to assess the complexity of stress systems*. In Proc. **LREC 2014** (9th International Conference on Language Resources and Evaluation), Reykjavik, Iceland, 26-31 may 2014, p. 331-336.
 33. Alina Ciobanu, Liviu P. Dinu, 2014. *On the Romance Languages Mutual Intelligibility*. In Proc. **LREC 2014** (9th International Conference on Language Resources and Evaluation), Reykjavik, Iceland, 26-31 may 2014, p. 3313-3318.
 34. Alina Ciobanu, Liviu P. Dinu, 2014. *Building a Dataset of Multilingual Cognates for the Romanian Lexicon*. In Proc. **LREC 2014** (9th International Conference on Language Resources and Evaluation), Reykjavik, Iceland, 26-31 may 2014, p. 1038-1043.
 35. Liviu P. Dinu, Radu-Tudor Ionescu, 2013. *An Efficient Algorithm for Rank Distance Consensus*. In Proc. **AIXIA 2013** (XIII Conference of the Italian Association for Artificial Intelligence), Turin (Italy), December 4-6, 2013, LNCS, Springer, p. 505-516.
 36. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2013. *Sequence Tagging for Verb Conjugation in Romanian*. In Proc. **RANLP 2013** (Recent Advances in Natural Language Processing), Hissar, Bulgaria, 7-13 September 2013, p.215-220
 37. Alina Ciobanu, Anca Dinu, Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2013. *Temporal Text Classification for Romanian Novels set in the Past*. In Proc. **RANLP 2013** (Recent Advances in Natural Language Processing), Hissar, Bulgaria, 7-13 September 2013, p. 136-140.
 38. Alina Ciobanu, Liviu P. Dinu, 2013. *A Dictionary-Based Approach for Evaluating Orthographic Methods in Cognates Identification*. In Proc. **RANLP 2013** (Recent Advances in Natural Language Processing), Hissar, Bulgaria, 7-13 September 2013, p. 141-147.
 39. Sergiu Nisioi, Liviu P. Dinu, 2013. *A Clustering Approach for Translationese Identification*. In Proc. **RANLP 2013** (Recent Advances in Natural Language Processing), Hissar, Bulgaria, 7-13 September 2013, p. 532-538.
 40. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2013.: *Romanian Syllabication Using Machine Learning*. In Proc. **TSD 2013** (Text, Speech, and Dialogue - 16th International Conference) Pilsen, Czech Republic, September 1-5, 2013. LNCS, Springer 2013, pp 450-456.
 41. Alina Ciobanu, Anca Dinu, Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2013. *Temporal classification for historical Romanian texts*. In Proc. **LATECH 2013**(the 7th

- Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities, co-located with ACL 2013), Sofia, Bulgaria, August 8 2013, p. 102–106.
42. Liviu P. Dinu, Sergiu Nisioi, 2013. *Using Ranks in Stylometric Analysis*. In **CICLING 2013**, Samos, Greece, March 2013 (poster).
 43. Alina Ciobanu, Liviu P. Dinu, 2012. *On the Romanian rhyme detection*. In Proc. **COLING 2012** (demo), (24th International Conference on Computational Linguistics), 8-15 December 2012, Mumbai, India, p. 87-94.
 44. Liviu P. Dinu, Sergiu Nisioi, 2012. *Authorial studies using ranked lexical features*. In Proc. **COLING 2012** (demo), (24th International Conference on Computational Linguistics), 8-15 December 2012, Mumbai, India, p. 125-130.
 45. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2012. *Dealing with the grey sheep of the Romanian gender system, the neuter*. In Proc. **COLING 2012** (demo), (24th International Conference on Computational Linguistics), 8-15 December 2012, Mumbai, India, p. 119-124.
 46. Antonella Delmestri, Liviu P. Dinu, 2012. *An Assessment of String Similarity Methods for Cognate Identification*. In *Methods and Applications of Quantitative Linguistics. Selected papers of the 8th International Conference on Quantitative Linguistics (QUALICO 2012)*, Belgrad, Serbia, april 26-29 2012, p. 152-163. Publisher: University of Belgrad (ISBN 978-86-7466-465-0).
 47. Liviu P. Dinu, Radu-Tudor Ionescu, Marius Popescu, 2012. *Local Patch Dissimilarity for Images*, In Proc. **ICONIP 2012** (Neural Information Processing - 19th International Conference), Doha, Qatar, November 12-15, 2012, LNCS 7663, p. 117–126.
 48. Liviu P. Dinu, Radu-Tudor Ionescu, 2012. *Clustering based on Rank Distance with Applications on DNA*. In Proc. **ICONIP 2012** (Neural Information Processing - 19th International Conference), Doha, Qatar, November 12-15, 2012, LNCS 7667, p. 722–729.
 49. Liviu P. Dinu, Radu-Tudor Ionescu, 2012. *Clustering Methods based on Closest String via Rank Distance*. In Proc. **SYNASC 2012** (14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing), Timisoara, Romania, September 26-29, 2012, p. 207-213 (publisher: IEEE).
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 52. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2012. *The Romanian Neuter Examined Through A Two-Gender N-Gram Classification System*. In Proc. **LREC 2012** (the 8th International Conference on Language Resources and Evaluation), Istanbul, Turkey, May 23-25, 2012, p. 907-910.
 53. Anca Dinu, Liviu P. Dinu, Alina Resceanu, Ion Resceanu. *Some issues on the authorship identification in the Apostles' Epistles*. In Proc. **LRE-Rel 2012** (first LRE-Rel Workshop on Language Resources and Evaluation for Religious Texts, co-located with LREC 2012), Istanbul, Turkey, May 23-25, 2012, p. 18-24.
 54. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2012. *Learning How to Conjugate the Romanian Verb. Rules for Regular and Partially Irregular Verbs*. In Proc. **EACL 2012** (13th Conference of the European Chapter of the Association for Computational Linguistics), Avignon, France, April 23-27, 2012, p. 524-529.
 55. Liviu P. Dinu, Vlad Niculae, Octavia-Maria Sulea, 2012. *Pastiche detection based on stopword rankings. Exposing impersonators of a Romanian writer*. Proc. of the EACL

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 58. Liviu P. Dinu, Emil Ionescu, Vlad Niculae, Octavia-Maria Sulea, 2011. *Can Alternations Be Learned? A Machine Learning Approach To Romanian Verb Conjugation*. In Proc. **RANLP 2011** (Recent Advances in Natural Language Processing), 12-14 September, 2011, Hissar, Bulgaria, p. 539-544.
 59. Tiberiu Danet, Liviu P. Dinu, 2011. *Meta-search: aggregating search engine results using rank-distance*. **SISAP 2011** (4th International Conference on Similarity Search and Applications), Lipari Island, Italy, June 30 - July 01, p. 111-112.
 60. Liviu P. Dinu, Florin Ghetu, 2011. *Circular Rank Distance: A New Approach for Genomic Applications*. In Proc. **BIOKDD 2011** (2nd International Workshop on Biological Knowledge Discovery and Data Mining, co-located with DEXA 2011) DEXA Workshops 2011, Toulouse, France, August 29 - Sept. 2, 2011, p. 397-401.
 61. Liviu P. Dinu, Radu Ionescu. *A Genetic Approximation of Closest String via Rank Distance*. In Proc. **SYNASC 2011** (13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing), Timisoara, Romania, September 26-29, 2011, p. 207-214.
 62. Liviu P. Dinu. 2010. *A rank based multi-classifier system in text categorization*. In Proc. **SMTDA 2010** (The international conference on Stochastic Modeling Techniques and Data Analysis (SMTDA '10), Chania, Greece, June 8-11, 2010 (<http://smta.net/>))
 63. Liviu P. Dinu, Andrei Rusu, 2010. *Rank Distance Aggregation as a Fixed Classifier Combining Rule for Text Categorization*. In Proc. **CICLing 2010** (Computational Linguistics and Intelligent Text Processing, 11th International Conference), Iasi, Romania, March 21-27, 2010, LNCS 6008, Springer, p.638-647.
 64. Liviu P. Dinu, Marius Popescu, 2009. *Ordinal measures in authorship identification*. In Proc. 3rd PAN workshop. **Uncovering plagiarism, authorship and social software misuse.(PAN'09)**, San Sebastian, september (Universidad politecnica de Valencia, ref.: 2009.2086), p. 62-66.
 65. Liviu P. Dinu, Marius Popescu, 2009. *Comparing statistical similarity measures for stylistic multivariate analysis*. In Proc. **RANLP 2009** (Recent Advances in Natural Language Processing), Borovets, Bulgaria, 14-16 september 2009, p. 349-354.
 66. Anca Dinu, Liviu P. Dinu, 2009. *On the behavior of Romanian syllables related to minimum effort laws*. In Proc. Int. Workshop Multilingual resources, technologies and evaluation for central and Eastern European languages (co-located with RANLP 2009), Borovets, Bulgaria, 14-16 september 2009, p. 9-13.
 67. Liviu P Dinu, Marius Popescu, 2009. *Language independent kernel method for classifying texts with disputed paternity*. In Proc. **ASMDA 2009** (The XIIIth Int. conf. Applied Stochastic Models and Data Analysis), june 30-july 3, 2009, Vilnius, p. 66-70 (ISBN 978-9955-28-463-5).
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 69. Luca Bortolussi, Liviu P. Dinu, Andrea Sgarro, 2008. *Measures of fuzzy disarray in linguistic typology*. In Proc. **IPMU 2008** (The 12th conference on Information

- Processing and Management of Uncertainty in Knowledge-Based Systems), Malaga, Spain, 22-27 june 2008, p. 167-172 (ISBN/ISSN 978-84-612-3061-7).
70. Marius Popescu, Liviu P. Dinu, 2008. *Rank distance as a stylistic similarity*. In Proc. **COLING 2008** (The 22nd Int. Conf. On Computational Linguistics –short paper), Manchester, 18-22 august 2008, p. 91-94.
 71. Liviu P. Dinu, Marius Popescu, 2007. *Kernel methods and string kernels for authorship identification: The Federalist Papers case*. In Proc. **RANLP 2007** (Recent Advances in Natural Language Processing), september 27-29, 2007, Borovets, Bulgaria, p. 484-487 (ISBN 078-954-91743-7-3).
 72. Liviu P. Dinu, Radu Gramatovici, Florin Manea, 2007. *On the syllabification of words via go-through automata*. In Proc. **LATA 2007** (1st International Conference on Language and Automata Theory and Applications), March 29 - April 4, 2007, Tarragona, Spania, p. 223-235.
 73. Liviu P. Dinu, Denis Enachescu, 2007. *Languages Similarity: Measuring and Testing*. In Proceedings XIIth Applied Stochastic Models and Data Analysis International Conference (ASMDA2007), Chania, Creta, Greece, May29-June 1, 2007.
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 77. Anca Dinu, Liviu P. Dinu, 2006. *How can 'rank distance' help in development of CALL material? (A comparative study of needs analyses for producing e-material)* In Proc. **EuroCall 2006**, Granada, Spain, September, 2006.
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 83. T. Angelescu, D. Dascalu, Liviu P. Dinu, C. Gangu, A. Mihul, A. Radu, A. Vasilescu. *Optimization of Silicon and Diamond Microstrip Detectors for High Flux Density Experiments*. In Proc. **MIXDES '97** (4th International Workshop Mixed Design of

Integrated Circuits and Systems Education of Computer Aided Design of modern Devices and Ics), 12-14 iunie 1997, Poznan – Polonia, p. 511-516.

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86. T. Angelescu, D. Dascalu, L. Dinu, C. Gangu, A. Mihul. *Conditii de Proiectare a unui Detector Microstrip cu Siliciu pentru Electroni Rapizi la Fluente Mari*. In Proc. al V-lea Colocviu National de Fizica si Tehnologia Materialelor Cristaline si Amorfe, Iasi, 13-14 iunie 1996, Romania, p.226-227.

29.09.2014

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