**Общ списък от публикации на Боян Иванов Колев**

**Монографии**:

1. Kolev B., E. El-Darzi, E. Sotirova, I. Petrounias, K. Atanassov, P. Chountas, V. Kodogiannis, *Generalized Nets in Artificial Intelligence Vol. 3: Generalized Nets, Relational Databases and Expert Systems*. Prof. M. Drinov Academic Publishing House, Sofia, 2006.
2. Chountas P., B. Kolev, E. Rogova, V. Tasseva, K. Atanassov, *Generalized Nets in Artificial Intelligence Vol. 4: Generalized Nets, Uncertain Data and Knowledge Engineering*. Prof. M. Drinov Academic Publishing House, Sofia, 2007.

**Публикации**:

2021

1. Kranas P., B. Kolev, O. Levchenko, E. Pacitti, P. Valduriez, R. Jimenez-Peris, M. Patino-Martinez. Parallel query processing in a polystore. *Distributed and Parallel Databases*. Vol. 39, Springer 2021, 939-977. DOI= https://doi.org/10.1007/s10619-021-07322-5

2020

1. Levchenko O., B. Kolev, D.-E. Yagoubi, R. Akbarinia, F. Masseglia, T. Palpanas, D. Shasha, P. Valduriez. BestNeighbor: efficient evaluation of kNN queries on large time series databases. *Knowledge and Information Systems* (2020). DOI= https://doi.org/10.1007/s10115-020-01518-4

2019

1. Levchenko O., B. Kolev, D.-E. Yagoubi, D. Shasha, T. Palpanas, P. Valduriez, R. Akbarinia, F. Masseglia. Distributed Algorithms to Find Similar Time Series. In: *Machine Learning and Knowledge Discovery in Databases. ECML PKDD 2019*. Lecture Notes in Computer Science, vol 11908. Springer, Cham. DOI= https://doi.org/10.1007/978-3-030-46133-1\_5
2. Kolev B., R. Akbarinia, R. Jimenez-Peris, O. Levchenko, F. Masseglia, M. Patino, P. Valduriez. Pipelined Implementation of a Parallel Streaming Method for Time Series Correlation Discovery on Sliding Windows. *Proceedings of the 8th International Conference on Data Science, Technology and Applications*. 2019. 431-436. DOI= https://doi.org/10.5220/0008191304310436
3. Kolev B., R. Akbarinia, R. Jimenez-Peris, O. Levchenko, F. Masseglia, M. Patino, P. Valduriez. Parallel Streaming Implementation of Online Time Series Correlation Discovery on Sliding Windows with Regression Capabilities. *Proceedings of the 9th International Conference on Cloud Computing and Services Science*. 2019. 681-687. DOI= https://doi.org/10.5220/0007843806810687

2018

1. Kolev B., O. Levchenko, E. Paciti, P. Valduriez, R. Vilaca, R. Goncalves, R. Jimenez-Peris, P. Kranas. Parallel Polyglot Query Processing on Heterogeneous Cloud Data Stores with LeanXcale. *IEEE International Conference on Big Data*. 2018. 1756-1765. DOI= https://doi.org/10.1109/BigData.2018.8622187
2. Levchenko O., D.-E. Yagoubi, R. Akbarinia, F. Masseglia, B. Kolev, D. Shasha. Spark-parSketch: A Massively Distributed Indexing of Time Series Datasets. *ACM CIKM*, 2018. 1951-1954. DOI= https://doi.org/10.1145/3269206.3269226
3. Yagoubi D.-E., R. Akbarinia, B. Kolev, O. Levchenko, F. Masseglia, P. Valduriez, D. Shasha. ParCorr: Efficient Parallel Methods to Identify Similar Time Series Pairs across Sliding Windows. *Data Mining and Knowledge Discovery*, Vol. 32 (5). Springer 2018. 1481–1507. DOI= https://doi.org/10.1007/s10618-018-0580-z

2016

1. Kolev B., C. Bondiombouy, P. Valduriez, R. Jimenez-Peris, R. Pau, J. Pereira. The CloudMdsQL Multistore System. *ACM SIGMOD*, 2016. 2113-2116. DOI= https://doi.org/10.1145/2882903.2899400
2. Bondiombouy C., B. Kolev, O. Levchenko, P. Valduriez. Multistore Big Data Integration with CloudMdsQL. *Transactions on Large-Scale Data and Knowledge-Centered Systems (TLDKS)*. Springer 2016. 48-74. DOI= https://doi.org/10.1007/978-3-662-53455-7\_3
3. Kolev B., R. Pau, O. Levchenko, P. Valduriez, R. Jimenez-Peris, J. Pereira. Benchmarking Polystores: the CloudMdsQL Experience. *IEEE International Conference on Big Data*. 2016. 2574-2579. DOI= https://doi.org/10.1109/BigData.2016.7840899
4. Kolev B., C. Bondiombouy, O. Levchenko, P. Valduriez, R. Jimenez-Peris, R. Pau, J. Pereira. Design and Implementation of the CloudMdsQL Multistore System. *Proceedings of the 6th International Conference on Cloud Computing and Services Science*. 2016. 352-359. DOI= https://doi.org/10.5220/0005923803520359

2015

1. Kolev B., P. Valduriez, C. Bondiombouy, R. Jiménez-Peris, R. Pau, J. Pereira. CloudMdsQL: Querying Heterogeneous Cloud Data Stores with a Common Language. *Distributed and Parallel Databases*. Vol. 34, Springer 2016, 463-503, First online: Sep 2015. DOI= https://doi.org/10.1007/s10619-015-7185-y
2. Bondiombouy C., B. Kolev, O. Levchenko, P. Valduriez. Integrating Big Data and Relational Data with a Functional SQL-like Query Language. *Int. Conf. on Databases and Expert Systems Applications (DEXA)*, 2015. 170-185. DOI= https://doi.org/10.1007/978-3-319-22849-5\_13
3. Kolev B., I. Ivanov. Intuitionistic Fuzzy Dependency Framework. *Studies in Fuzziness and Soft Computing*, Vol. 332. Springer 2015. 177-187. DOI= https://doi.org/10.1007/978-3-319-26302-1\_12

2010

1. Boyadzhieva, D., B. Kolev. Intuitionistic Fuzzy Data Quality Attribute Model and Aggregation of Data Quality Measurements. *Intelligent Systems: From Theory to Practice. Studies in Computational Intelligence*, Vol 299. Springer 2010. 383-395. DOI= https://doi.org/10.1007/978-3-642-13428-9\_18
2. Boyadzhieva D., B. Kolev, N. Netov. Intuitionistic Fuzzy Data Warehouse and Some Analytical Operations. *Proceedings of 5th International IEEE Conference on Intelligent Systems*. 7-9 July 2010. 331-336. DOI=https://doi.org/10.1109/IS.2010.5548391

2009

1. Ivanov I., B. Kolev. Mapping of Business Process Modeling Notation Elements to Generalized Nets: Complete Element Set. *Proceedings of the Tenth Int. Workshop on Generalized Nets*. Sofia, 5 December 2009. 31-40.
2. Kolev B., I. Ivanov. Fault Tree Analysis in an Intuitionistic Fuzzy Configuration Management Database. *Notes on Intuitionistic Fuzzy Sets*, Vol.15, No 2, 2009. 10-17.

2008

1. Ivanov I., B. Kolev. Intuitionistic Fuzzy Extensions to the Information Technology Infrastructure Library Configuration Management Database. *Notes on Intuitionistic Fuzzy Sets*, Vol. 14, No. 4, 2008. 34-40.
2. Ivanov I., B. Kolev. Generalized Net Representation of Workflow Nets. *Proceedings of the Ninth Int. Workshop on Generalized Nets*, Sofia, 4 July 2008. 89-93.
3. Boyadzhieva D., B. Kolev. An Extension of the Relational Model to Intuitionistic Fuzzy Data Quality Attribute Model. *Proceedings of 4th International IEEE Conference on Intelligent Systems*, Vol. 2, 2008. 13-19. DOI=https://doi.org/10.1007/978-3-642-13428-9\_18
4. Kolev B., P. Chountas, E. Rogova, K. Atanassov. Representation of Value Imperfection with the Aid of Background Knowledge: H-IFS. *Intelligent Techniques and Tools for Novel System Architectures. Studies in Computational Intelligence*, Vol. 109, Springer 2008. 473-492. DOI=https://doi.org/10.1007/978-3-540-77623-9\_27
5. Chountas P., V. Tasseva, B. Kolev, K. Atanassov. Generalized Net Models Representing Data Warehouse Operations. *Annual of “Informatics” Section*, Union of Scientists in Bulgaria, Vol. 1, 2008. 81-92.

2007

1. Chountas P., B. Kolev, V. Tasseva, K. Atanassov. Generalized Net Model for Binary Operations over Intuitionistic Fuzzy OLAP cubes. *Proceedings of the Eighth Int. Workshop on Generalized Nets*, Sofia, 26 June 2007. 66-72.
2. Rogova E. P. Chountas, B. Kolev. Intuitionistic Fuzzy Knowledge-based OLAP. *Notes on Intuitionistic Fuzzy Sets*, Vol.13, No.2, 2007. 88-100.

2006

1. Kolev B., K. Atanassov, P. Chountas, I. Petrounias. A Mediation Approach towards an Intuitionistic Fuzzy Mediator. *Proc. of Eleventh International Conf. IPMU*, 2006, Paris, July 2-7, 2006. 2355-2362.
2. Кolev B., K. Atanassov, P. Chountas, I. Petrounias. Merging Probabilistic & Null Values Utilising an Intuitionistic Fuzzy Relational Mediator. *Proceedings of the 3rd IEEE International Conference on Intelligent Systems*, 2006. 764-770. DOI=https://doi.org/10.1109/IS.2006.348517
3. Chountas P., V. Tasseva, B. Kolev, K. Atanassov. Generalized Net Model of Selection Operation over Intuitionistic Fuzzy Cube. *Proceedings of the Sixth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets*, Warsaw, 30 Nov – 01 Dec 2006. 86-95.
4. Atanassov K, B. Kolev, On an Intuitionistic Fuzzy Implication from a Possibilistic Type. *Advanced Studies in Contemporary Mathematics*, Vol. 12, No. 1, 2006. 111-116.

2005

1. Kolev B. Intuitionistic Fuzzy PostgreSQL. *Advanced Studies in Contemporary Mathematics*, Vol. 11, No. 2, 2005. 163-177
2. Kolev B. Generalized Nets in Modeling Relational Database Management Systems. *Advanced Studies in Contemporary Mathematics*, Vol. 11, No. 1, 2005. 111-129
3. Petrounias I., A. Tseng, P. Chountas, B. Kolev, E. El-Darzi, V. Kodogiannis. Intuitionistic Fuzzy Generalized Nets in Modeling Web Usage Patterns Identification. *Notes on Intuitionistic Fuzzy Sets*, Vol. 11, No. 4, 2005. 123-129
4. Kolev B., M. Marinov, J. Kacprzyk. Cyclomatic Complexity for Generalized Nets. *Issues in Intuitionistic Fuzzy Sets and Generalized Nets*, Vol. 3 (K. Atanassov, J. Kacprzyk and M. Krawczak, Eds.), Warsaw School of Information Technology Press, 2005. 17-22
5. Kolev B. Generalized Nets in Modeling Query Processing in Relational Database Systems. *Issues in Intuitionistic Fuzzy Sets and Generalized Nets*, Vol. 3 (K. Atanassov, J. Kacprzyk and M. Krawczak, Eds.), Warsaw School of Information Technology Press, 2005. 23-28
6. Kolev B., P. Chountas, K. Atanassov, I. Petrounias. Representing Uncertainty and Ignorance in Probabilistic Data Using the Intuitionistic Fuzzy Relational Data Model. *Issues in the Representation and Processing of Uncertain and Imprecise Information*. Fuzzy Sets, Generalized Nets and Related Topics, Akademicka Oficyna Wydawnicza EXIT, Warszawa 2005. 198-208

2004

1. Chountas, P., I. Petrounias, C. Vasilakis, E. El-Darzi, A. Tseng, K. Atanassov, B. Kolev, V. Kodogiannis, P. Georgiev. Temporality and Intuitionistic Fuzzy Data Warehouses. *Proceedings of the Eighth International Conference on Intuitionistic Fuzzy Sets*, 20-21 June 2004, Varna, Bulgaria. 47-55
2. Petrounias, I., A. Tseng, B. Kolev, P. Chountas, V. Kodogiannis. An Intuitionistic Fuzzy Component Based Approach for Identifying Web Usage Patterns. *Proceeding of the 2nd International IEEE Conference on Intelligent Systems*, Vol. 2, 2004. 430-433. DOI= https://doi.org/10.1109/IS.2004.1344786
3. Kolev, B. Intuitionistic Fuzzy Relational Databases And Translation of the Intuitionistic Fuzzy SQL. *Proceeding of the Sixth International FLINS Conference*, 1-3 Sep 2004, Blankenberge, Belgium. 189-194
4. Kolev B. An Intuitionistic Fuzzy Approach in Football Match Result Predictions. *Current Issues in Data and Knowledge Engineering* (B. de Baets, R. de Caluwe, G. de Tre, J. Fodor, J. Kacprzyk and S. Zadrozny, Eds.), Academicka Oficyna Wydawnicza EXIT, Warszawa, 2004. 291-296.
5. Kolev, B., P. Chountas, I. Petrounias, V. Kodogiannis. An Application of Intuitionistic Fuzzy Relational Databases in Football Match Result Predictions. *Computational intelligence, theory and applications: Proceedings of International Conference 8th Fuzzy Days*, Dortmund, Germany, 29 Sep – 01 Oct 2004. *Advances in soft computing*, Vol. 33. Springer 2004. 281-289. DOI=https://doi.org/10.1007/3-540-31182-3\_25
6. Chountas P., V. Kodogiannis, I. Petrounias, B. Kolev, K. Atanassov. On Probability, Null Values, Intuitionistic Fuzzy, & Value Imperfection. *Proceedings of Int. Conf. of Computational Methods in Sciences and Engineering* (ICCMSE 2004). Lecture series on computer and computational sciences (1). VSP, Leiden, Netherlands. 1139-1143.

2003

1. Kolev, B., P. Chountas. Intuitionistic Fuzzy Generalized Nets in Analyzing Concurrency in Transaction Database Systems. *Proceedings of the 10th ISPE Int. Conf. on Concurrent Engineering "Advanced Design, Production and Management Systems"*. 26-30 July 2003, Madeira, Portugal. 1079-1082.
2. Kolev, B., P. Chountas. Intuitionistic Fuzzy Relational Databases. *Proceedings of the Seventh International Conference on Intuitionistic Fuzzy Sets*, 23-24 August 2003, Sofia, Bulgaria. 109-113
3. Petrounias, I., A. Assaid, P, Chountas, B. Kolev. Temporal Aspects of Web Log Analysis. *Proceedings of the Seventh International Conference on Intuitionistic Fuzzy Sets*, 23-24 August 2003, Sofia, Bulgaria. 114-122.

2002

1. Kolev, B. Intuitionistic Fuzzy Generalized Net Analysis of Periodic Deadlock Detection in Database Systems. *Proceedings of the IEEE International Conference on Intelligent Systems*, Vol. 3, 2002. 69-73. DOI=https://doi.org/10.1109/IS.2002.1042590
2. Kolev B., P. Chountas, I. Petrounias. Intuitionistic Fuzzy Generalized Nets in Analyzing Transaction Database Systems with Continuous Deadlock Detection. *Proceedings of the Sixth International Conference on Intuitionistic Fuzzy Sets*, Varna, 13-14 September 2002. 95-100.
3. Al-Roki H., P. Chountas, I. Petrounias, V. Kodogiannis, B. Kolev. Representing and Querying Temporal Workflow Schemas. *Proceedings of the Sixth International Conference on Intuitionistic Fuzzy Sets*, Varna, 13-14 September 2002. 57-65.

2001

1. Kolev, B. An Algorithm for Transforming an Intuitionistic Fuzzy Graph to an Intuitionistic Fuzzy Generalized Net. *Notes on Intuitionistic Fuzzy Sets*, Vol. 7, No. 2, 2001. 61-62.

2000

1. Kolev, B. An Algorithm for Transforming a Graph to a Generalized Net. *Proceeding of the First International Workshop on Generalized Nets*, Sofia, 9 July 2000. 26-28