

Nikos Bikakis

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Education

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| 2016 | Ph.D., Computer Science
National Technical University of Athens, Greece
<i>Thesis</i> : “Personalized, Semantic and Exploratory Data Analysis”
<i>Available at</i> : www.nbikakis.com/thesis.pdf |
| 2009 | Diploma in Electronic & Computer Engineering
Technical University of Crete, Greece
<i>Thesis</i> : “Supporting Semantic Queries over XML Databases” |

Research Interests

- **Big Data Analytics**: Human-Centered Data Management, Visual Analytics, Data Structures & Indexing, Visualization, Graph Exploration
- **Recommendation & Personalization**: Personalized Data Management, User Preferences, Ranking Models & Methods, Diversification
- **Social Data Analytics**: Social Networks Analytics, Influence & Revenue Maximization, Crowd-sourced Data
- **Data Semantics**: Semantic Data Integration, Knowledge Graphs, Linked Data, Semantic Web, XML Data, Semantic Information Retrieval
- **Computationally Hard Problems**: Efficient & Scalable Algorithms, Optimization Problems, Complexity Analysis, External Memory Algorithms

Selected Publications

- S. Maroulis, N. Bikakis, G. Papastefanatos, P. Vassiliadis, Y. Vasilou: “*Resource-Aware Adaptive Indexing for In-situ Visual Exploration and Analytics*”. VLDB Journal, 2022
- S. Maroulis, N. Bikakis, G. Papastefanatos, P. Vassiliadis, Y. Vasilou: “*RawVis: A System for Efficient In-situ Visual Analytics*”. In Proc. of 45th ACM Intl. Conf. on Management of Data (ACM SIGMOD/PODS 2021)

- N. Bikakis, S. Maroulis, G. Papastefanatos, P. Vassiliadis: “*In-Situ Visual Exploration over Big Raw Data*”. Information Systems (IS), Elsevier, 2020
- L. Po, N. Bikakis, F. Desimoni, G. Papastefanatos: “*Lined Data Visualization: Techniques, Tools and Big Data*”. Morgan & Claypool, 2020 Homepage: www.linkeddatavisualization.com
- G. Andrienko, N. Andrienko, S. Drucker, J.-D. Fekete, D. Fisher, S. Idreos, T. Kraska, G. Li, K.-L. Ma, J.D. Mackinlay, A. Oulasvirta, A. Schreck, H. Schmann, M. Stonebraker, D. Auber, N. Bikakis, P.K. Chrysanthis, G. Papastefanatos, M. Sharaf: “*Big Data Visualization and Analytics: Future Research Challenges and Emerging Applications*”. In Proc. of 3rd Intl. Workshop on Big Data Visual Exploration & Analytics (BigVis 2020) — *Also appears on two ACM SIGMOD Blog posts.*
- N. Bikakis: “*Big Data Visualization Tools*”. Encyclopedia of Big Data Technologies, Springer 2019
- N. Bikakis, V. Kalogeraki, D. Gunopulos: “*Social Event Scheduling*”. In Proc. of 34th IEEE Intl. Conf. on Data Engineering (ICDE 2018)
- N. Bikakis, J. Liagouris, M. Kromida, G. Papastefanatos, T. Sellis: “*graphVizdb: A Scalable Platform for Interactive Large Graph Visualization*”. In Proc. of 32nd IEEE Intl. Conf. on Data Engineering (ICDE 2016)
- N. Bikakis, K. Benouaret, D. Sacharidis: “*Finding Desirable Objects under Group Categorical Preferences*”. Knowledge and Information Systems Journal (KAIS), Springer 2015
- P. Bouros, D. Sacharidis, N. Bikakis: “*Finding the Most Influential Local Users in Location-Based Social Networks*”. In Proc. of 22nd ACM Intl. Conf. on Advances in Geographic Information Systems (SIGSPATIAL 2014)
- N. Bikakis, C. Tsinaraki, I. Stavrakantonakis, N. Gioldasis, S. Christodoulakis: “*The SPARQL2XQuery Interoperability Framework. Utilizing Schema Mapping, Schema Transformation and Query Translation to Integrate XML and the Semantic Web*”. World Wide Web Journal (WWWJ), Springer 2013
- K. Makris, N. Bikakis, N. Gioldasis, S. Christodoulakis: “*SPARQL-RW: Transparent Query Access over Mapped RDF Data Sources*”. In Proc. of 15th Intl. Conf. on Extending Database Technology (EDBT 2012)