# Dennis E. Shasha

**Julius Silver Professor of Computer Science**

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**Education**

Yale University New Haven, CT, USA Engineering and Applied Science B.S. 1977

Syracuse University Syracuse, NY, USA Computer Science M.S.1980

Harvard University Cambridge, MA, USA Applied Mathematics Ph.D. 1984

# Appointments

2018-Present Julius Silver Professor of Computer Science and Data Science, New York University

1995-Present Professor, Courant Institute of Mathematical Sciences, New York

University

2006-2007 Invited Professor, INRIA, Roquencourt, France

1998-1999 Invited Professor, INRIA, Roquencourt, France

1992-1993 Invited Professor, INRIA, Roquencourt, France

1993-Present Co-Editor-in-Chief (with Gottfried Vossen and Felix Naumann) of Information Systems. Publisher: Elsevier North Holland

# Relevant Publications (machine learning, network analysis)

1. *"SafePredict: A Meta-Algorithm for Machine Learning That Uses Refusals to Guarantee Correctness"*, by Mustafa Anil Kocak, David Ramirez, Elza Erkip, Dennis Shasha   
   **IEEE Transactions on Pattern Analysis and Machine Intelligence** 2019 doi: 10.1109/TPAMI.2019.2932415
2. “*Network Walking charts transcriptional dynamics of nitrogen signaling by integrating validated and predicted genome-wide interactions"* by Matthew Brooks, Jacopo Cirrone, Angelo Pasquino, Jose Alvarez, Joseph Swift, Shipra Mittal, Che-Lun Juang, Kranthi Varala, Rodrigo Gutierrez, Gabriel Krouk, Dennis Shasha, and Gloria Coruzzi [Paper NCOMMS-18-23259B]   
   **NATURE COMMUNICATIONS** (2019) 10:1569 doi: 10.1038/s41467-019-09522-1 April 5, 2019.
3. *“Fast Methods for Finding Significant Motifs on Labelled multi-relational networks”* by Giovanni Michale, Alfredo Pulvirenti, Rosalba Giugno, Dennis Shasha   
   **Journal of Complex Networks, cnz,** <http:////dor.org/10.1093/comnet/cnz008>, March 13, 2019.
4. *“Conjugate conformal prediction for online binary classification.”* by M. A. Kocak, D. Shasha, and E. Erkip.   
   Conference on Uncertainty in Artificial Intelligence, UAI 2016, July 2016.

# Other Publications

1. *"VersionClimber: Version Upgrades Without Tears"* Christophe Pradal, Sarah Cohen-Boulakia, Patrick Valduriez, Dennis Shasha

**Computing in Science & Engineering** SEPTEMBER/OCTOBER 2019 Volume: 21, Issue:5 pp 87-93 Print ISSN: 1521-9615 Online ISSN: 1558-366X doi: 10.1109/MCSE.2019.2921898

1. *Crowdsourcing Thousands of Specialized Labels: a Bayesian active training approach* Maximilien Servajean, Alexis Joly, Dennis Shasha, Julien Champ, Esther Pacitti

**IEEE Transactions on Multimedia**, Volume: 19, Issue: 6, June 2017, pp. 1376-1391

1. *“ParCorr: Efficient Parallel Methods to Identify Similar Time Series Pairs across Sliding Windows”* Djamel Edine Yagoubi, Reza Akbarinia, Boyan Kolev, Oleksandra Levchenko, Florent Masseglia, Patrick Valduriez, Dennis Shasha

**Data Mining and Knowledge Discovery** September 2018, Volume 32, Issue 5, pp 1481-1507 <https://doi.org/10.1007/s10618-018-0580-z>

1. *"Point Pattern Search in Big Data"* Fabio Porto, John Rittmeyer, Eduardo Ogasawara, Alberto Krone-Martins, Patric Valduriez, Dennis Shasha

**Scientific and Statistic Database Management**, June 2018, Bolzano-Bozen, Italy

# Synergistic Activities:

1. Co-Editor-in-Chief, *Information Systems Journal*
2. 2015-2020 INRIA International Chair
3. 2014- ACM Fellow