



Institute for Data Science



NJIT Hosts New Jersey Big Data Alliance Symposium

NJIT hosted the ninth New Jersey Big Data Alliance Symposium, bringing together nearly 200 experts from academia, government, and industry to share ideas about the present state and future trends of their field.

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**Center of
Artificial
Intelligence**

**Center for Big
Data**

**Cybersecurity
Research Center**

**Structural
Analysis of
Biomedical
Ontologies
Center (SABOC)**



Recent Research Publications

Cybersecurity Research Center

Center Directors: Reza Curtmola and Kurt Rohloff

Mojtaba Zaheri, Yossi Oren, and Reza Curtmola, "Targeted Deanonimization via the Cache Side Channel: Attacks and Defenses", 31st USENIX Security Symposium, 2022. [Learn more about USENIX.](#)

Dhrubajyoti Ghosh, Peeyush Gupta, Sharad Mehrotra, and Shantanu Sharma, "Supporting Complex Query Time Enrichment For Analytics", 26th International Conference on Extending Database Technology (EDBT), 2023 (Accepted). [Learn more about EDBT.](#)

Structural Analysis of Biomedical Ontologies Center (SABOC)

Center Directors: James Geller and Yehoshua Perl

Vinnikov, M.; Vergilis, D.; Oran, U. and Geller, J. (2022). "Virtual Reality Ontology Object Manipulation (VROOM)". In Proceedings of the 15th International Joint Conference on Biomedical Engineering Systems and Technologies - HEALTHINF, ISBN 978-989-758-552-4; ISSN 2184-4305, pages 361-368. DOI: 10.5220/0010787700003123. [Click Here to View](#)



Recent Research Publications

Big Data Analytics Lab

PI: Senjuti Basu Roy

Sepideh Nikookar, Paras Sakharkar, Sathyanarayanan Somasunder, Senjuti Basu Roy, Adam Bienkowski, Matthew Macesker, David Sidoti, Krishna Pattipati. "Cooperative Route Planning Framework for Multiple Distributed Assets in Maritime Applications", to appear SIGMOD 2022. [Click Here to View](#).

Dong Wei, Mouinul Islam, Baruch Schieber, Senjuti Basu Roy. "Rank Aggregation with Proportionate Fairness", to appear SIGMOD 2022. [Click Here to View](#).

Sepideh Nikookar, Payam Esfandiari, Ria Mae Borromeo, Sihem Amer-Yahia, Senjuti Basu Roy. Diversifying Recommendations on Sequences of Sets, to appear VLDB Journal 2022.

Sepideh Nikookar, Paras Sakharkar, Baljinder Smagh, Sihem Amer-Yahia, Senjuti Basu Roy. Guided Task Planning Under Complex Constraints, ICDE 2022.



STUDENT UPDATES

Spring 2022 Graduates!

Songlin He, Ph.D. Student, Center for Big Data

Qianwen Ye, Ph.D. Student, Center for Big Data

Paras Sakharkar, Honors B.S. Student, Big Data
Analytics Lab

Aniruddha Ganguly, Masters Student, Big Data
Analytics Lab

Congratulations to the Graduates!

STUDENT UPDATES

Big Data Analytics Lab

Dong Wei has defended his Ph.D. thesis successfully and won the Joseph Leung Award for the Best CS Ph.D. thesis of the year. Dong has joined Google, NYC!

Paras Sakharkar, BS Honors student, will be joining Amazon.

Aniruddha Ganguly, MS student, joining Walmart Lab.

Md Mouinul Islam returning to Amazon, interning as an applied research scientist for two consecutive years this summer.

Cybersecurity Research Center

Ph.D. Dissertation Announcement:

Cavidan Yakupoglu

05/25/2022

"Parameter Selection in Fully Homomorphic Encryption Schemes and FHE Applications"

Dissertation Advisor: Kurt Rohloff

NJIT Hosts Big Data Alliance Symposium with Focus on Education

written by: Evan Koblentz

[Link to the full article](#)

NJIT hosted the ninth New Jersey Big Data Alliance Symposium, bringing together nearly 200 experts from academia, government and industry to share ideas about the present state and future trends of their field.

Attendees represented a gamut of careers, not just programmers, which the panelists said indicates that the importance of artificial intelligence, data science and machine learning applies to nearly all aspects of life in the 21st century. Many students were also present.

Distinguished Professor David Bader, director of NJIT's Institute for Data Science, chaired the symposium. Atam Dhawan, senior vice provost for research, said in a welcome session that data science is a major enabler of future technology innovation and its wider role in society. "I'm a very strong believer in the enablers of technology ... addressing not only the global challenges but addressing the needs of the society," he said.

Keynote speakers Stephen Ezell, vice president of global information policy for the Information Technology and Innovation Foundation, and Florence Hudson, executive director of the Northeast Big Data Innovation Hub, both drove home the point.

"Data science is an exciting, new discipline focused on solving real-world problems from protecting business from novel cyberattacks to predicting solar activity that could disrupt our communication systems," Bader said, noting the success of the university's newly created data science department within Ying Wu College of Computing.



DATA SCIENCE SEMINAR SERIES

The Institute for Data Science Spring 2022 Seminar Series has come to a successful conclusion! Join us for upcoming seminars which will be held in Fall 2022 on Wednesdays at 4 PM Eastern Time. To view past seminars you've missed visit our youtube channel and follow us on Eventbrite to be notified of future events.

<https://datascience.njit.edu/events/>

Follow us on Eventbrite:

<https://njit-institute-for-data-science.eventbrite.com/>

Subscribe to our YouTube channel:

<http://www.youtube.com/c/NJITInstituteforDataScience>



George Em Karniadakis

Brown University

March 30, 2022

[Watch Here](#)



Joel Emer

Massachusetts Institute of Technology

April 20, 2022

[Watch Here](#)

In Collaboration with WiCS (Women in Computing Society) and
G-WiCS (Graduate Women in Computing Society)



Klara Nahrstedt

University of Illinois

April 27, 2022

[Watch Here](#)

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