

# Dr. Sarvesh Pandey

## PERSONAL INFORMATION

### *Assistant Professor*

Banaras Hindu University, Varanasi

### **Office Address —**

Computer Science- MMV, Banaras Hindu University, Varanasi, India

*Date of Birth*— March 25, 1994

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## EDUCATION

Ph.D. from Department of Computer Science & Engineering, M. M. M. University of Technology, Gorakhpur, India, June 2020

**The Thesis Title:** Resolving Conflicts amongst Distributed Real-Time Transactions

**Thesis Supervisor:** Prof. Udai Shanker

M. Tech. from Department of Computer Science & Engineering, M. M. M. University of Technology, Gorakhpur, India, May 2016

## KEY ACHIEVEMENTS

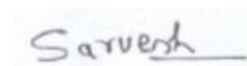
2. **33<sup>rd</sup> Rank** in Indian National Eligibility Test Junior Research Fellowship (**NET JRF**) on Engineering Science Stream conducted by Council of Scientific and Industrial Research (**CSIR**), New Delhi, India in June 2014.
1. “**Best Research Poster Award**”, during 3<sup>rd</sup> Malaviya Research Conclave-2019 (MRC-2019) organized by M. M. M. University of Technology, Gorakhpur during February 24-26, 2019.

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## CERTIFICATIONS

2. Recognized as **Microsoft Technology Associate (MTA)** for “**98-381: Introduction to Programming using Python**” on March 12, 2019 by completing all the requirement successfully.
1. Recognized as a **Microsoft Technology Associate (MTA)** for “**98-369: Cloud Fundamentals**” on March 16, 2019 by completing all the requirement successfully.

## RESEARCH INTEREST



Research interest includes Real Time Systems, Distributed Real Time Database Systems, Data Systems, and Cloud Computing.

## **RATING AT GOOGLE SCHOLAR**

Citations: 143, H-index: 7, i10-index:7

<https://scholar.google.com/citations?user=eXeYCBgAAAAJ&hl=en>

## **GIT-HUB DETAILS**

Link: <https://github.com/sarvesh-0>

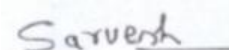
## **PUBLICATIONS**

### **Book**

1. **“Handling Priority Inversion in Time-Constrained Distributed Databases”** Advances in Data Mining and Database Management (ADMMDM) book series, Editor: Udai Shanker and **Sarvesh Pandey**, IGI Global, ISBN13: 9781799824916  
<https://www.igi-global.com/book/handling-priority-inversion-time-constrained/236598>  
DOI: 10.4018/978-1-7998-2491-6

### **Book Chapters**

3. Sarvesh Pandey and Udai Shanker **“MDTF: A Contention Aware Priority Assignment Policy for Cohorts in DRTDBS”** Encyclopedia of Organizational Knowledge, Administration, and Technologies, 1<sup>st</sup> Edition, Editor- Mehdi Khosrow-Pour, DBA (Information Resources Management Association, USA), published by IGI Global under the imprint “Business Science Reference”, pp 742-756, September 2020. DOI: 10.4018/978-1-7998-3473-1  
<https://www.igi-global.com/chapter/mdtf/263578>
2. Sarvesh Pandey and Udai Shanker **“EDRC-An Early Data Lending Based Real-Time Commit Protocol”** Encyclopedia of Information Science and Technology, 5<sup>th</sup> Edition (3 Volumes), Editor- Mehdi Khosrow-Pour, DBA (Information Resources Management Association, USA), published by IGI Global under the imprint “Business Science Reference”, pp. 800-814, September 2021. DOI: 10.4018/978-1-7998-3479-3  
<https://www.igi-global.com/chapter/edrc/260230>
1. Sarvesh Pandey and Udai Shanker **“Causes, Effects and Consequences of Priority Inversion in Transaction Processing”** book entitled as Handling Priority Inversion in Time-Constrained Distributed Databases, Advances in Data Mining and Database Management (ADMMDM) book series, Edited by Udai Shanker and Sarvesh Pandey, IGI Global, February 2020. DOI: 10.4018/978-1-7998-2491-6  
<https://www.igi-global.com/chapter/causes-effects-and-consequences-of-priority-inversion-in-transaction-processing/249420>



## **International Journals**

7. Sarvesh Pandey and Udai Shanker, “**STEP: A Concomitant Protocol for Real Time Applications**”, *International Journal of Wireless Personal Communications, Springer 2021* (Accepted).  
**CORE International Journal Ranking-C and Indexing-SCIE, Scopus (Elsevier)**  
**Impact Factor: 1.061**
6. Anupama Arun, Sarvesh Pandey and Udai Shanker “**A Multi-Replica-Centered Commit Protocol for Distributed Real Time and Embedded Applications**”, *International Journal of System Dynamics Applications (IJSDA), IGI Global, Vol. 10, No. 4, 2020*. ISSN: 2160-9772, EISSN: 2160-9799  
**Indexing – ESCI, UGC Care List (INDIA), DBLP, Google Scholar**  
  
<https://www.igi-global.com/article/a-multi-replica-centered-commit-protocol-for-distributed-real-time-and-embedded-applications/279889>
5. Sarvesh Pandey and Udai Shanker, “**Transaction Scheduling Protocols for Controlling Priority Inversion: A Review**”, *Journal of Computer Science Reviews*, Elsevier, Volume 35, February 2020, 100215. ISSN: 1574-0137  
**Indexing-SCIE, Scopus (Elsevier), DBLP**  
**Impact Factor: 7.7077**  
<https://www.sciencedirect.com/science/article/pii/S1574013719301479>
4. Sarvesh Pandey and Udai Shanker, “**RACE: A Concurrency Control Protocol for Time-Constrained Transactions**”, *The Arabian Journal of Science and Engineering*, Springer, Vol. 45, No. 12, May 26, 2020  
Electronic ISSN: 2191-4281, Print ISSN: 2193-567X  
[DOI: 10.1007/s13369-020-04632-1](https://doi.org/10.1007/s13369-020-04632-1)  
**Indexing-SCIE, Scopus (Elsevier)**  
**Impact Factor: 13.473**  
<https://link.springer.com/article/10.1007/s13369-020-04632-1>
3. Sarvesh Pandey and Udai Shanker, “**RAPID: A Real Time Commit Protocol**”, *Journal of King Saud University-Computer and Information Sciences*. Elsevier, April 10, 2020. ISSN: 1319-1578  
**Indexing-SCIE, Scopus (Elsevier)**  
**Impact Factor: 1.711**  
<https://www.sciencedirect.com/science/article/pii/S1319157820303414>
2. Sarvesh Pandey and Udai Shanker, “**A Contention Aware EQS Priority Assignment Heuristic for Cohorts in DRTDBS**” *International Journal of Supercomputing*, Jan. 2, 2021.

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Electronic ISSN: 1573-0484, Print ISSN: 0920-8542

**CORE International Journal Ranking-B and Indexing- SCI, DBLP**

**Impact Factor: 2.469**

<https://link.springer.com/article/10.1007/s11227-020-03530-5>

1. Sarvesh Pandey, Aman Kumar Pandey and Udai Shanker, “**SP-LIFT: A Serial Parallel Linear & Fast Paced Recovery Centered Transaction Commit Protocol**” *International Journal of SN Computer Science*, Volume 1, Issue 3, May 26, 2020. Electronic ISSN: 2661-8907.  
DOI: 10.1007/s42979-020-00193-0  
**Indexing-DBLP, ACM Digital Library**  
<https://link.springer.com/article/10.1007/s42979-020-00193-0>

### **International Conferences**

9. Sarvesh Pandey and Udai Shanker, “**Performance Issues in Scheduling of Real Time Transactions**” *Proceedings of the 26th International Conference on Database System for Advance Applications (DASFAA-2021)*, Taipei, Taiwan, April 11-14, 2021.  
**CORE International Conference Ranking-B**  
[https://link.springer.com/chapter/10.1007/978-3-030-73200-4\\_51](https://link.springer.com/chapter/10.1007/978-3-030-73200-4_51)
8. Aman Pandey, Sarvesh Pandey and Udai Shanker, “**LIFT- A New Linear Two-Phase Commit Protocol**” *Proceedings of the 25th International Conference on Advance Computing (ADCOM-2019)*, IIIT Bengaluru, INDIA, Sep. 5-7, 2019.  
**CORE International Conference Ranking-B**  
<https://doi.org/10.34048/ADCOM.2019.Paper.3>
7. Ritesh K. Singh, Sarvesh Pandey and Udai Shanker, “**A Non-Database Operations Aware Priority Ceiling Protocol for Hard Real-Time Database Systems**” *Proceedings of the 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT-2019)*, IIT Kanpur, INDIA, July 6-8, 2019. ISBN: 978-1-5386-5906-9  
<https://ieeexplore.ieee.org/document/8944482>
6. Sarvesh Pandey and Udai Shanker, “**Priority Inversion in DRTDBS: Challenges and Resolutions**” *Proceedings of the ACM India Joint International Conference on Data Science & Management of Data CoDS-COMAD 2018 | 5th ACM IKDD CoDS and 23rd COMAD Young Researchers' Symposium*, Goa University, Talegao Plateau, Goa, India, Jan. 11-12, 2018.  
**CORE International Conference Ranking-B**  
<http://dblp.uni-trier.de/db/conf/comad/comad2018.html>
5. Sarvesh Pandey and Udai Shanker, “**CART: A Real-Time Concurrency Control Protocol**,” *Proceedings of the 22nd International Database Engineering & Applications Symposium (IDEAS 2018)*, University of Calabria and ICAR-CNR, Italy, June 18-20, 2018.

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#### CORE International Conference Ranking-B

<http://confsys.encs.concordia.ca/IDEAS/ideas18/ideas18.php>

4. Sarvesh Pandey and Udai Shanker, “**A One Phase Priority Inheritance Commit Protocol**” *Proceedings of the 14th International Conference on Distributed Computing and Internet Technology (ICDCIT 2018)*, KIIT University, Bhubaneswar, Odisha, India, Jan. 11-13, 2018.

#### CORE International Conference Ranking-C

[https://link.springer.com/chapter/10.1007/978-3-319-72344-0\\_24](https://link.springer.com/chapter/10.1007/978-3-319-72344-0_24)

3. Sarvesh Pandey and Udai Shanker, “**IDRC: A Distributed Real-Time Commit Protocol**” *Proceedings of the 6th International Conference on Smart Computing and Communications (ICSCC 2017)*, NIT Kurukshetra, India, Dec. 7-8, 2017.  
<http://www.sciencedirect.com/science/article/pii/S187705091732803X>  
Procedia Computer Science, Scopus (Elsevier), Volume 125, 2018, pp. 290-296  
UGC Care Computer Science Journal-Procedia Computer Science

2. Sarvesh Pandey and Udai Shanker, “**On Using Priority Inheritance Based Distributed Static Two Phase Locking Protocol**” *Proceedings of the International Conference on Data and Information System (ICDIS 2017)*, Indira Gandhi National Tribal University (IGNTU), Amarkantak, India, Springer, Singapore, vol. 38, Nov. 17-18, 2017.  
[https://link.springer.com/chapter/10.1007/978-981-10-8360-0\\_17](https://link.springer.com/chapter/10.1007/978-981-10-8360-0_17)

1. Sarvesh Pandey and A. K. Daniel. "**Fuzzy logic based cloud service trustworthiness model.**" 2<sup>nd</sup> IEEE International Conference on Engineering and Technology (ICETECH), DEPARTMENT OF CSE & IT, Rathinam Technical Campus, Coimbatore, March 17th & 18th, 2016.  
<https://ieeexplore.ieee.org/document/7569215>

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