



Arjan Singh

Male, Indian National

Born September 01, 1978

Present Position:

Assistant Professor (Computer Science)
Department of Mathematics,
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Education:

- M.Sc. (Mathematics) from Department of Mathematics, Punjabi University, Patiala in 2000.
- M.Tech. (Computer Science & Engineering) from Department of Computer Science & Engineering, Punjabi University, Patiala in 2003.
- Ph.D. (Computer Science & Engineering) from Guru Nanak Dev University, Amritsar in 2014.

Experience:

- Working as an Assistant Professor (Computer Science) in the Department of Mathematics, Punjabi University, Patiala since November 11, 2011.
- Worked as an Assistant Professor in the Department of Computer Science & Engineering, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab from July 02,2007 to November 11, 2011

- Worked as a Lecturer in the Department of Computer Science & Engineering, Guru Nanak Dev University, Amritsar from July, 2003 to May, 2007.

Research Areas:

- Metaheuristic Optimization Techniques
- Distributed Databases Design

List of papers taught at Undergraduate and Postgraduate Levels:

- Operating Systems
- Software Engineering
- Database Management Systems
- Distributed Databases
- Management Information System
- System Analysis and Design
- Computer Networks
- Data Communication
- Object Oriented Programming in C++

Publications:

1. **Arjan Singh**, K.S. Kahlon, Jaswinder Singh, Rajinder Singh, Sandeep Sharma, and Daljeet Kaur, “*Mapping Relational Database Schema to Object-Oriented Database Schema*”, Transaction On Engineering , Computing And Technology V1, December 2004, pp. 153-155.
2. Jaswinder Singh, Hardeep Singh, Daljeet Kaur, **Arjan Singh** and Sandeep Sharma, “*Restructuring Legacy Software Systems*”, Transaction On Engineering , Computing And Technology V1, December 2004, pp. 32-33.
3. Karanjeet Singh Kahlon, Gurvinder Singh, and **Arjan Singh**, “*Network Based High Performance Computing*”, International Journal of Information Technology, Vol. 3, No. 1, pp. 7-11 (2006).
4. Baljit Singh, **Arjan Singh** and Akashdeep “*Havrda and Charvat Entropy Based Genetic Algorithm for Traveling Salesman Problem*” IJCSNS International Journal of Computer Science and Network Security, VOL.8 No.5, May 2008, pp. 312-319.

5. Akash deep, Baljit Singh, **Arjan Singh**, Jatinder Singh, "A Simple Efficient Circuit Partitioning by Genetic Algorithm" IJCSNS International Journal of Computer Science and Network Security, Vol. 9 No. 4, April 2009 pp. 272-276.
6. **Arjan Singh** and K.S. Kahlon, "Non-replicated Dynamic Data Allocation in Distributed Database Systems" IJCSNS International Journal of Computer Science and Network Security, VOL.9 No.9, September 2009.
7. Manisha Kaushal, **Arjan Singh** and Baljit Singh, "Adaptive Thresholding for Edge Detection in Gray Scale Image" International Journal of Engineering Science and Technology Vol. 2(6), 2010, 2077-2082.
8. Gurbinder Kaur and **Arjan Singh**, "Rule Based Age Detection System" International Journal of Computer Science & Communication Vol. 1, No. 2, July-December 2010, pp. 91-95.
9. **Arjan Singh**, Karanjeet Singh Kahlon and Rajinder Singh Virk, "Replicated Static Allocation of Fragments in Distributed Database Design using Biogeography-based Optimization" Proc. of Int. Conf. on Advances in Communication, Network, and Computing, CNC 2014.
10. **Arjan Singh**, Karanjeet Singh Kahlon and Rajinder Singh Virk, "Nonreplicated Static Data Allocation in Distributed Databases Using Biogeography-Based Optimization" Chinese Journal of Engineering, Volume 2014 (2014), Article ID 785321, 9 pages.
11. Baljit Singh Khehra, **Arjan Singh**, Amar Partap Singh Pharwaha and Parmeet Kaur, "Image Segmentation Using Two-Dimensional Renyi Entropy", Advances in Intelligent Systems and Computing, Volume 438, 2016.
12. **Arjan Singh**, "Empirical Evaluation of Threshold and Time Constraint Algorithm for Non-replicated Dynamic Data Allocation in Distributed Database Systems", Advances in Intelligent Systems and Computing, Volume 438, 2016.