

## PROFILE (Updated May 2020)

Title (Ms/Mr/Dr/Prof)	Dr. Nidhi Arora	
Designation	Assistant Professor	
Department	Computer Science	
Address (Official)	Kalindi College, University of Delhi, East Patel Nagar, New Delhi-110005. India	
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### Education

Subject	Institution	Year	Details
Ph.D. (Computer Science)  <b>Thesis Title</b> : “ <i>Enhancing Group Search Optimization Algorithm for Structural Analysis of Small Scale Networks</i> ”	Department of Computer Science, University of Delhi	June 2019	Completed
M.Phil	Madurai Kamaraj Univ, Madurai	2010	First Division
MCA	MD Univ, Rohtak.	2004	First Division
MIT	MCRP Univ, Bhopal	2001	First Division
B.Sc(Comp. Sc.)	Keshav Mahavidyalaya, University of Delhi	1999	First division

### Career Profile

Organisation/Institution	Designation	Duration	Role
Kalindi College	Assistant Professor (Permanent)	23 <sup>rd</sup> August 2010- till date	Teaching, Research and Administrative Activities
Keshav Mahavidyalaya	Assistant Professor(Adhoc)	1 <sup>st</sup> Nov 2001 to 23 <sup>rd</sup> August 2010	Teaching

### Research Interests/Specialization

Evolutionary Algorithms, Social Networks, Data Structures, C++.

### Administrative Assignments / Contribution to corporate life

March 2020-onwards	Teacher In charge, Department of Computer Science, Kalindi College
2018-19	Deputy Co-Ordinator, Central Evaluation Centre, Kalindi College (May-September 2018) Member of Committee of Undergraduate Courses, Department of Computer science, University of Delhi. Convenor, Cultural Program, Farewell 2019
2013-2014, 2017	Member, Purchase Committee
2017-19	Convenor, E-waste Committee Co-Convenor, Repository Committee
2014	Member, Core Committee, Admissions

	Convenor, ECA admission Committee Superintendent, Written+ Skill Test, JACT(Contract), Kalindi College
2012-13	Convenor, Cultural programme, Annual Day
2013	Co-Convenor, ECA admission committee
6 <sup>th</sup> Aug 2012-20 <sup>th</sup> Nov 2012 1 <sup>st</sup> May 2013-30 <sup>th</sup> July 2014	Teacher-In-Charge, Department of Computer Science, Kalindi College
2012,2013, 2014,2018,2019	Convenor, Inter College Cultural Festival Lehren
2012-13	Member, Cultural Council, Univ of Delhi
2011-12	Member, Examination Committee Convenor, Prize Distribution Committee, Annual Day Member , ECA admission Committee Co-Convenor, Lehren, Kalindi College Cultural Festival Co-ordinator, Physcom Society Convenor, Seating and Shamiana Committee, Alumni Day

### Teaching Experiences (Subject/Courses Taught)

#### Courses Taught

B.Sc. (H) Computer Science, B.Sc. (Physical Sciences), B.Sc. (G) Computer Science, PGDCA, BIS, BIT

#### Subjects Taught

Programming Languages – C++, Java, Algorithms, Data Structures, Computer Networks, Multimedia and Database Management Systems, Machine Learning

### Publications (Peer Reviewed/Indexed Journals)

Year of Publication	Title	Journal (Name of the journal. Vol Issue ISSN)	Co-Author
2018	Arora, N. and Banati, H., 2018. IM-GSO: A Community Directed Group Search Optimization Approach for Influence Maximization. <i>Cybernetics and Systems</i> , 49(7-8), pp.497-520.	<i>Cybernetics and Systems</i> , 49(7-8), pp.497-520. Indexed : Scopus, ESCI Impact Factor - 1.6	Hema Banati
2018	Significance of Social Media in Learning and Growth of Youth: A Case Study of a Women Undergraduate College of India	<i>International journal of basic and applied research</i> , September 2018 UGC Approved (UGC list number 64041), P-ISSN 22493352, E-ISSN 22780505	Reena Jain, Vandana Gupta, Aarushi, Mink Singh Chauhan, Shivani Yadav, Pallavi Pal, Umang Aggarwal, Swati Basu
2016.	Detecting communities in complex networks-A discrete hybrid evolutionary approach	<i>International Journal of Computers and Applications</i> , Taylor and Francis, 38(1), pp.29-40. Indexed : Scopus Print ISSN: 1206-212X Online ISSN: 1925-7074	Hema Banati
2016	Multiobjective Group Search Optimization Approach for Community Detection in Networks	<i>International Journal of Applied Evolutionary Computation (IJAEC)</i> , IGIglobal publishers, 7(3), pp.50-70. Indexed : DBLP, ACM ISSN: 1942-3594 EISSN: 1942-3608	Hema Banati
2014	“Enabling Inclusive Education in	International Journal of Innovation	Hema

	Structured Learning Environments through Social Network Analysis”	in Education, 2(2/3/4) PP. 151-167, Inderscience. Indexed: Google Scholar, Inspec, ISSN-1755-1528.	Banati
2011	“Clustering in Microarray Data”	Yearly Academic Journal, Kalindi College, Vol 10, PP.96-108, ISSN-2348-9014	-
2012	“Biometrics – A concern for Security”	Yearly Academic Journal, Kalindi College, Vol 11, PP.160-167. ISSN-2348-9014	-

### Seminar/Workshop/Conferences Presentation

1. Nidhi Arora, Reena Jain, Vandana Gupta, Umang Aggarwal, Chetna Gupta, Mahima Kumari, Naina Chaudhary, Pankhuri Jain, Rekha Pal Investigating factors influencing scholastic execution at undergrad level using network analytics, Presented in [ICAICR '19](#) Third International Conference on Advanced Informatics for Computing Research Shimla, India — June 15 - 16, 2019, Proceedings in ACM-DL, ISBN: 978-1-4503-6652-6 doi>[10.1145/3339311.3339319](https://doi.org/10.1145/3339311.3339319)
2. Nidhi Arora<sup>1</sup>, Reena Jain<sup>2</sup>, Vandana Gupta<sup>3</sup>, Aarushi<sup>4</sup>, Mink Singh Chauhan<sup>5</sup>, Shivani Yadav<sup>6</sup>, Pallavi Pal<sup>7</sup>, Umang Aggarwal<sup>8</sup>, Swati Basu<sup>9</sup> ,“Youth and Social Media: A Case Study of Kalindi College for Women”, Paper presented at “*International Conference on Empowering Women: Fostering Entrepreneurship, Innovation and Sustainability*” jointly organised by SRCC and NITI Aayog on 16-17 July 2018 , IIC, Delhi.
3. Nidhi Arora and Hema banati, “A Framework to Mine Communities Using Nature Inspired Algorithms”, *IEEE International Conference on Research in Computational Intelligence and Communications Networks (ICRCICN)*, 2016a .  
**Electronic ISBN:** 978-1-5090-1047-9  
**CD-ROM ISBN:** 978-1-5090-1045-5  
**USB ISBN:** 978-1-5090-1046-2  
**Print on Demand (PoD) ISBN:** 978-1-5090-1048-6
4. Puja Munjal, Nidhi Arora, Hema Banati , “ Dynamics of online Social Networks based on parametric variation of relationship” , *in IEEE International Conference on Research in Computational Intelligence and Communications Networks (ICRCICN)*, 2016b.  
**Electronic ISBN:** 978-1-5090-1047-9  
**CD-ROM ISBN:** 978-1-5090-1045-5  
**USB ISBN:** 978-1-5090-1046-2  
**Print on Demand(PoD) ISBN:** 978-1-5090-1048-6
5. Nidhi Arora and Hema Banati, 2016c, “Enhancing Group Search Optimization with Node Similarities for Detecting Communities”. In *The International Symposium on Intelligent Systems Technologies and Applications* , 2016, pp. 303-316. Springer International Publishing.  
**Print ISBN-** 978-3-319-47951-4.  
**Online ISBN-** 978-3-319-47952-1
6. Hema Banati and Nidhi Arora, 2015a. “TL-GSO: - A Hybrid Approach to Mine Communities from Social Networks”, in Proc. of *IEEE International Conference on Research in Computational Intelligence and Communications Networks (ICRCICN)*, 2015, pp. 145-150, IEEE.  
**Electronic ISBN:** 978-1-4673-6735-6  
**CD-ROM ISBN:** 978-1-4673-6734-9
7. Hema Banati and Nidhi Arora, 2015b. “Modeling Evolutionary Group Search Optimization Approach

for Community Detection in Social networks” , in Proceedings of the *Third Int. Symposium on Women in Computing and Informatics*, 2015, pp. 109-117, ACM.

**ISBN:** 978-1-4503-3361-0

### **Book Chapters Published/Books Edited**

1. Book: Emerging Trends in Information Technology, 2019, Editor- Dr. Nidhi Arora, Publisher- Bloomsbury India, ISBN: 978-93-89165-99-9
2. Arora, N. and Banati, H., 2017. GSO Based Heuristics for Identification of Communities and Their Leaders. In *Hybrid Intelligence for Social Networks* (pp. 99-127). Springer, Cham.
3. Author of Chap 1-Threaded Trees, BSc.(H)Comp Sc II sem , ILLI , University of Delhi, ISSN-2349-154X.
4. Author of Chap 2- M-way Trees, BSc.(H)Comp Sc II sem , ILLI , University of Delhi, ISSN-2349-154X.

### **Seminar/ Conference/Workshop Organised**

- Organised UGC Sponsored National Conference on Emerging Trends in Information Technology held on 1<sup>st</sup> and 2<sup>nd</sup> August 2019 at Kalindi College as Convener of the Conference.
- Organised a Students Webinar on “Managing Psychological Lockdown” in Kalindi College , Speaker, Dr. Shivani from Aryabhata college on 6<sup>th</sup> May 2020.

### **FDP/Workshop/Trainings/Courses Attended**

- **Completed Two week FDP on** Managing online classes and co-creating MOOCs **Organised by** Teaching Learning Centre, established under the Pandit Madan Mohan Malaviya National Mission on Teachers and Training scheme of MHRD, Ramanujan College (University of Delhi) from 20<sup>th</sup> April to 6<sup>th</sup> May 2020

### **Awards & Distinctions**

- Have additionally qualified J and K State Level Eligibility Test (Computer Science) for Lecturer-ship held on 7<sup>th</sup> August 2005.
- Qualified UGC-NET (2006) in Computer Science.

### **University Service/ Consulting Activity/ Resource Person/ Invited Talks**

- Participated as Session Chair and Chaired a session in International Conference on Advances in Smart Materials and Emerging Technologies organized by IGDTUW held on Jan 23-24, 2020 at IGDTUW , Delhi
- Resource person in a Seminar on “Current IT trends”, organised by Makhanlal Chaturvedi National University, Bhopal on 29th November 2017.
- TPC committee member in First International Conference on Advanced Computational and Communication Paradigm held at Skkim Manipal Institute of Technology, Skkim, India during 8-10 Septemeber 2017.
- Resource person for Inter-College “Skill Enhancement Workshop for Laboratory Staff” held at Kalindi College (University of Delhi) on 13-14 March, 2018.
- Reviewer of International Journal “IEEE Access” , Feb 2019 . *IEEE Access* has an impact factor

of 3.557, an Eigenfactor of 0.0186, and an article influence score of 1.098 (per 2017 JCR).

### **Minor Projects Undertaken (Funded)**

- 1. 2017-18: "Social Media for Youth: A Boon or a Bane",** Funded by Kalindi College (**KC/2017/03**) - **Principal Investigator- Completed , Six undergraduate students involved**
- 2. 2018-19: "Analysing Real World Relationships Through Network Analytics,** Funded by Kalindi College - **Principal Investigator- Completed, Six undergraduate students involved**