

## School of Basic & Applied Sciences



Dr. Bhavna Arora

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### **Research Interests:**

- Network & Cyber Security
- Data Mining

### **Brief Profile:**

#### **-Academics**

- Ph.D in Computer Science & IT from University of Jammu, Jammu in October 2011
- Post Graduation from IMT Ghaziabad in 1997
- Graduation from Kurukshetra University in 1994

#### **-Total work experience**

- 19 years (18 years teaching experience and 1 year industry experience)

#### **-Grants Received**

- Received UGC-BSR Startup Grant for amount of 6 lacs for project titled “Study of cybercrimes in the Universities of Jammu & Kashmir State using data mining techniques” in Jan 2015
- Received Travel Grant from the Department of Science & Technology, GOI, New Delhi to attend and International Conference at Phuket, Thailand in 2012

### **Memberships :-**

Member IEEE No:- 92601864, Member ACM No:- 7702620, Member ISTE, Member of IETE (The Institution of Electronics and Telecommunication Engineers) No:- M181387, CSI (Computer Society of India) No:- 01090179, Member of SIE (Singapore Institute of Electronics)- No:- 60080030, Senior Member (International Association of Computer Science and Information Technology) No:-80345441, Board of Reviewers (InSite International Conferences)

## Selected Publications:

1. *PISC* Arora, B., “Exploring and analyzing Internet crimes and their behaviours”. Perspectives in Science(2016), Elsevier- <http://dx.doi.org/10.1016/j.pisc.2016.06.014>

2. *The Cyber Warfare and Cyber Security Dynamics*, Arora, Bhavna; International Journal of Scientific and Technical Advancements, pp-249-251, September 2015. ISSN-2454-152

3. *A Threat Model Approach for Classification of Network Layer Attacks in WSN*. Arora, Bhavna; International Journal of Computer Applications, Vol. 63 No.9, pp 5-10, February 2013. Published by Foundation of Computer Science, New York, USA. ISSN-0975-8887

4. *Role of Key Management for Detection of Malicious Nodes in Wireless Sensor Networks*. Arora, Bhavna; International Journal of Computing Science and Communication Technologies-“TECHNIA” . January 2013, Vol. 5, Issue No.2, pp 842-846 ISSN-0974-3375

5. *An Approach for Residual Energy Based Aggregator Selection for Data Aggregation in Wireless Sensor Networks*. Arora, Bhavna; International Proceedings of Computer Science & Information Technology Journal. May 2012, Vol 40, pp-127-131

This paper was presented in “2012 4TH International Conference on Computer Engineering and Technology (ICCET 2012)”. The conference was sponsored by IACSIT, co-sponsored by Singapore Institute of Electronics (SIE) and held at Phuket, Thailand on May 27-28th 2012.

ISBN-978-981-07-2152, ISSN-2010-460X.

*The grant to attend the conference was sanctioned by Department of Science & Technology, New Delhi.*

6. *An Intra-Cluster Trust-Based Secure Data Aggregation Framework for Wireless Sensor Networks*. Arora Bhavna, Devanand; International Journal of Next Generation Computing, March 2011, Vol.2, No.1, pp 75-88. (Impact Factor :Not Available) ISSN-2229-4678

7. *Trust Based Secure Data Aggregation Protocol in Wireless Sensor Networks*. Arora Bhavna, Devanand ; The ICFAI University Press (IUP) Journal of Information Technology, September 2010, Vol. VI, No. 3, pp. 7-22. ISSN-0973-2896