

Journals—Published/Under Review

(Under Review)

- Usha Banerjee, K. V. Arya, Abhishek Mehrotra, Ayush Agarwal, Gaurav Batra and Gaurav Bora, "Diagnosis and Detection of a Misbehaving Malicious Node in a Mobile Ad-hoc Network", *Journal of Network and Computer Application*, **Elsevier**. **(Under second round of review) [Impact Factor 2.29]**.
 - Poonam Sharma, R. N. Yadav, K. V. Arya, "Illumination Invariant Face Recognition using Median Neuron Based Network", *Signal Processing*, **Elsevier [Impact Factor 2.20]**.
 - Poonam Sharma, R. N. Yadav, K. V. Arya, "Face Recognition using Generalized Mean Neural Network based on Time Signature Features", *Pattern Recognition Letters*, **Elsevier [Impact Factor 1.55]**.
 - Poonam Sharma, R. N. Yadav, K. V. Arya, "Face Recognition using Curvelet Transform and Generalized Neural Networks", *Connection Science* **Taylor & Francis. (Under Review)**
1. Harish Sharma, Jagdish Chand Bansal, K.V. Arya, and Xin-She Yang, "Levy Flight Artificial Bee Colony Algorithm", *International Journal of Systems Science*", 2015, **Taylor & Francis. (Available online) [Impact Factor 2.1]**.
 2. Saraswat and K. V. Arya, "Automated Microscopic Image Analysis for Leukocytes Identification: A Survey", *Micron*, Vol. 65, pp. 20-33, 2014, **Elsevier. [SCI. Impact Factor 1.98]**
 3. Jagdish Chand Bansal, Harish Sharma, and K.V. Arya, "Self Balanced Differential Evolution", *Journal of Computational Sciences*, **5, No. 2**, pp. 312–323, 2014, **Elsevier. [SCI. Impact Factor 1.76]**
 4. Harish Sharma, Jagdish Chand Bansal, V. Arya, "Power law-based local search in artificial bee colony", *International Journal of Artificial Intelligence and Soft Computing*, Vol. 4, No. 2/3, pp. 164-194, 2014.
 5. Saraswat and K. V. Arya, "Feature Selection and Classification of Leukocyte using Random Forest", *Medical & Biological Engineering & Computing*, Vol. 52, pp. 1041-1052, 2014, **Springer. [SCI. Impact Factor 1.726]**
 6. Harish Sharma, Jagdish Chand Bansal, K.V. Arya, Kusum Deep, and Millie Pant, "Self Adaptive Artificial Bee Colony", *Optimization: A Journal of Mathematical Programming and Operations Research*, **63**, No. 10, 2014, **Taylor & Francis. [SCI. Impact Factor 0.936]**
 7. Poonam Sharma, R. N. Yadav and K. V. Arya, "Pose Invariant Face Recognition using Curvelet Neural Network", *IET Biometrics*, , vol. 3, no. 3, pp. 128-138, 2014, **[SCI. Impact Factor 0.857]**

8. Nafisuddin Khan, K. V. Arya and Manisha Pattanaik, "Edge preservation of impulse noise filtered images by improved anisotropic diffusion", *Multimedia Tools and Applications*, Springer, Vol. 73, pp. 573-597, 2014, **Springer [Impact Factor 1.346]**.
9. Rohit Katiyar, Vinay Kumar Pathak, and K. V. Arya, "Human Gait Recognition system based on shadow free silhouettes using Truncated Singular Value Decomposition transformation model", *International Journal of Artificial Intelligence and Soft Computing*, 4, No. 4, pp. 283-301, **2014, Inderscience**.
10. Harish Sharma, Jagdish Chand Bansal, K. V. Arya, "Power Law based Artificial Bee Colony Algorithm", *International Journal of Artificial Intelligence and Soft Computing*, Vol.4, No.2/3, pp. 164-194, **Inderscience**.
11. Mukesh Saraswat and K. V. Arya, "Supervised leukocyte segmentation in tissue images using multi-objective optimization technique", *Engineering Applications of Artificial Intelligence*, 31, pp. 44-52, 2013, **Elsevier [SCI. Impact Factor 2.5]**.
12. Harish Sharma, [Jagdish Chand Bansal](#), [V. Arya](#), "Opposition based lévy flight artificial bee colony", *Memetic Computing*, Vol. 5, No. 3, pp. 213 - 227, 2013, **Springer [SCI. Impact Factor 1.0]**.
13. Usha Banerjee and K. V. Arya, "[Optimizing Operating Cost of an Intrusion Detection System](#)", *Intl. J. Communications, Network and System Sciences*, 2013, vol. 6, no. 1, pp. 29-36, (**Scientific Research open access**)
14. Harish Sharma, Jagdish Chand Bansal, K. V. Arya and Atulya Nagar, "Memetic search in artificial bee colony algorithm", *Soft Computing*, pp. 1911-1928, 2013, **Springer [Impact Factor 1.27] .**
15. Mukesh Saraswat, K. V. Arya and H. Sharma, "Leukocyte Segmentation in Tissue Images using Differential Evolution Algorithm Swarm and Evolutionary Computation", *Swarm and Evolutionary Computation*, Vol. 11, pp. 46-54, 2013, **Elsevier**.
16. Poonam Sharma, R. N. Yadav and K. V. Arya, "Efficient Face Recognition using Generalized Neuron Model," *Signal Processing*, Vol. 93, No. 6, pp. 1557-1565, 2013, **Elsevier [Impact Factor 2.2] .**
17. Nafisuddin Khan, K. V. Arya, and Manish Pattanaik, "Histogram statistics based variance controlled adaptive threshold in anisotropic diffusion for low contrast image enhancement", *Signal Processing*, Vol. 93, No. 6, pp.1684-1693, 2013, **Elsevier [SCI. Impact Factor 2.2] .**
18. Jagdish Chand Bansal, Harish Sharma, Atulya Nagar and K. V. Arya, "Balanced Artificial Bee Colony Algorithm", *International Journal of Artificial Intelligence and Soft Computing*, Vol. 3, No. 3, pp. 222-243, 2013, **Inderscience**.

19. Harish Sharma, Jagdish Chand Bansal, K. V. Arya. "Power Law based Local Search in Differential Evolution", International ***Journal of Computational Intelligence Studies***, 2, No. 2, pp. 90-112, 2013, ***Inderscience***.
20. Mukesh Saraswat and K.V. Arya, "Color Normalization of Histopathological Images", Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Vol. 1, No. 4, 2013, **Taylor & Francis**.
21. Harish Sharma, Jagdish Chand Bansal, K. V. Arya, "Levy Flight Differential Evolution", ***International Journal of Computational Intelligence Studies, Inderscience. (In Press)***
22. Jagdish Chand Bansal, Harish Sharma, K.V. Arya, "Self Balanced Differential Evolution", Journal of Computational Science, Vol. 5, No. 2, pp. 312-323, 2012, **Elsevier [Impact Factor 1.76] .**
23. Sharma, J.C. Bansal and K. V. Arya, and Xin-She Yang "Opposition based Levy Flight Artificial Bee Colony Algorithm", ***Memetic Computing***, vol.2, no. 1, pp. 1-15, 2012, **Springer [SCI. Impact Factor 1.00] .**
24. Harish Sharma, Jagdish Chand Bansal, K. V. Arya, "Fitness based Differential Evolution", ***Memetic Computing***, Vol. 4, No. 4, pp. 303-316, 2012, **Springer [Impact Factor 1.00] .**
25. Jagdish Chand Bansal, Harish Sharma, K. V. Arya and Kusum Deep, "Dynamic Swarm Artificial Bee Colony Algorithm", ***Special issue on, Evolutionary and Fuzzy Techniques, International Journal of Applied Evolutionary Computation (IJAEC)***, 3, No. 4, pp. 19-33, 2012, **IGI, Global.**
26. Banerjee, G. Batra and K. V. Arya, "Feedback Reliability Ratio of an Intrusion Detection System," ***Journal of Information Security, Vol. 3 No. 3, 2012, pp. 238-244.***
27. Mano Yadav, Vinay Rishiwal, and K. V. Arya, "Study of on Demand Adhoc Routing Protocols", ***Journal of Engg. Innovation and Research***, Vol. 1, No. 1, pp. 139-144, 2012.
28. Nafis Uddin Khan, K. V. Arya, and Manisha Pattanaik. A robust PDE based image de-noising method. International Journal of Computer and Electrical Engineering (***IACSIT Press***), Volume 4, No. 3, pages. 303-306, June 2012.
29. Nafis Uddin Khan, K. V. Arya and Manisha Pattanaik, "Image Enhancement and De-noising by Diffusion based Singular Value Decomposition," ***International Journal of Computer Applications***, 32, no. 8, pp.14-22, October 2011.
30. Saurabh Singh and K. V. Arya, "Mouse Interaction based authentication system by classifying the distance travelled by mouse", ***International Journal of Computer Applications***, 17, No. 1, pp. 45-48, 2010. **ISSN 0975 – 8887**

31. V. Arya and K. Agarwal, "An IP Lookup Algorithm using Hashing Formula", ***International Journal of Engineering Sciences***, Vol. 1, No.1, 2010, pp. 65-68, 2010.
32. Vinay Rishiwal, Mano Yadav and K. V. Arya, "Finding Optimal paths on Terrain Maps Using Ant Colony Optimization Algorithm", ***International Journal of Computer Theory and Engineering***, V 2, No. 3, 2010, pp. 416-419.
33. Kshitiz Agarwal and Karm Veer Arya, "An image Compression Algorithm for Discontinuous Series of Similar Pixels", ***International Journal of Computer Applications***, 1, No. 17, 2010, pp. 107-108.
34. Kshitiz Agarwal and Karm Veer Arya, "A Pattern Recognition Algorithm for Continuous Tone Images", ***International Journal of Computer Applications***, 1, No. 17, 2010, pp. 109-111.
35. Mano Yadav, Vinay Rishiwal and K.V. Arya, "Routing in Wireless Adhoc Networks: A New Horizon," ***International Journal of Computing, USA***, 1. No.1, pp. 204-209, 2009.
36. V. Arya, P. Gupta, P. K. Kalra and P. Mitra, "Image Registration using Robust M-estimators", ***Pattern Recognition Letters***, Vol. 28, No. 15 (2007), pp. 1957-1968, ***Elsevier [SCI. Impact Factor 1.55]*** .
37. V. Arya and R. K. Ghosh, "Designing a New Class of Fault Tolerant Multistage Interconnection Networks", ***Journal of Interconnection Networks***, Vol. 6, No. 4 (2005), pp. 361-382, ***World Scientific***.
38. V. Arya, A. Kamal and P. Gupta, "Boundary Detection in Wireless Sensor Networks using Image Processing Algorithms", ***Journal of Electronics and Computer Science, USA, Vol. 7, No. 2, 2005, pp. 1-8.***
39. Gupta and K. V. Arya, "On the Rate of Point wise Convergence of Modified Baskakov Type Operators for Functions of Bounded Variations", ***Kyungpook Mathematical Journal, South Korea***, Vol. 38, No. 2, 1998, pp. 283-291.

▪ **Conferences—Published/Accepted**

1. Sonu Lamba and K. V. Arya, "HFAT: A Hybrid Framework for Automation Testing", In Proc. of 2nd Conference on Next Generation Computing and Communication Technologies (ICNGCCT 2015), ***April 22-23, 2015, Dubai, UAE.***
2. V. Arya and Abhinav Adarsh, "An Efficient Method of Shadow Elimination Based on Image Region Information in HSV Color Space", In Proc. of 7th Intl. Conference on Computational Intelligence and Communication Networks (CICN 2015), ***Dec. 12-14, 2015, Jabalpur, India.***

3. [Sharma](#), K. V. [Arya](#), and R. N. [Yadav](#), "**Face recognition using generalized self organising map based on PCNN features**", In Proc. of 2nd International Conference on Signal Processing and Integrated Networks (SPIN 2015), **Feb. 19-20, 2015, Noida, India.**
4. Mukesh Saraswat, [Karm Veer Arya](#) and Harish Sharma, "Artificial Bee Colony Algorithm for Automatic Leukocytes Segmentation in Histopathological Images", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
5. V. Arya and Hemdutt Verma, "Keyword Driven Automated Testing Framework for Web Application", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
6. [V. Arya](#) and Rohit Kumar, "Improved feature based Offline Signature Enhancement and Verification", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
7. V. Arya and Vinay Rishiwal, "An Efficient Halftone Visual Secret Sharing Scheme", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
8. Akanksha Bandil and K. V. Arya, "Multiple Image Sharing Scheme for Secure Communication", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
9. Anurag Bhargava, Shashi Shekhar and K.V. Arya, "An Object Based Image Retrieval Framework Based on Automatic Image Annotation", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
10. V. Arya and Rashi Saxena, "S-ALERT: Secure Anonymous Location-Based Efficient Routing proTocol", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
11. Saurabh Singh, K. V. Arya and Madhavi Sinha, "Face Recognition Using User Specific Features", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
12. [Deepak Mangal](#) and [V. Arya](#), "An efficient approach for web path traversal pattern based on visitor preferences and navigation behavior", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
13. Shashi Shekhar, Anita Raj and K.V. Arya, "Web Link Retrieval Framework for Retrieving QueryCentric Links", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**

14. Harendra Upraity and Karm Veer Arya, "Efficient Face Recognition Using Morphological Operations", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
15. V. Arya and Anukriti, "Face Recognition under Partial Occlusion using HMM and Face Edge Length Model", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
16. Nafis Uddin Khan, V. Arya and Manisha Pattanaik, "Efficient Image De-noising and Edge Enhancement by Singular Value Decomposition on Anisotropic Diffused Image Data", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
17. V. Arya and Ngali Tato, "**A Lossless Compression Algorithm for Video Frames**", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
18. Sandeep Kumar Agarwal, Vinay Rishiwal and V. Arya, "**Rendering the Behavior of Routing Protocols for Diverse Mobility Patterns in Energy Constrained Large Adhoc Networks**", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
19. Rakesh Kumar and K.V. Arya, "**An on demand routing protocol AODV with end to end reliability and Backward Route Information**", In Proc. of 9th Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
20. V. Arya and Akanksha Bandil, "**An Improved Image Authentication Technique using Random -Sequence based Secret-Sharing Scheme**", In Proc. of 9th Intl. Conference on Industrial and Information Systems (ICIIS2014), **Dec. 15-17, Gwalior, India.**
21. V. Arya and Purnima Parasad, "**A New Motion Estimation Technique for Video Compression**", In Proc. of National Conference on Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG 2013), Dec. 19-21, 2013, Jodhpur.
22. V. Arya and Parul Agrawal, "**Combating Interference in Power Control MAC Protocol for Wireless Ad Hoc Networks**," In Proc. IEEE International Conference on Industrial and Information Systems (ICIIS2013), **Dec.17-20, 2013, Peradeniya, Sri Lanka.**
23. V. Arya and Kuldeep Narayan Tripathi, "**Power Aware and Secure Routing in Mobile and ad-Hoc networks**," In Proc. IEEE International Conference on Industrial and Information Systems (ICIIS2013), **Dec. 17-20, 2013, Peradeniya, Srilanka.**
24. Usha Banerjee, Aparna Tyagi, Anurag Malhotra, Ankur Kumar Tegwal, and K. V. Arya, "**Impact of Rushing Attack with Varying Network Sizes: Detection and Prevention**", Proc. Seventh

- International Conference on Communication Networks (ICCN-2013), **9-14, 2013, Bangalore, India, pp. 80-88.**
25. Harish Sharma, Shimpi Singh Jadon, Jagdish Chand Bansal and K. V. Arya, "Levy Flight Based Local Search in Differential Evolution", **Lecture Notes in Computer Science series, vol. 8297, Springer-Verlag Berlin Heidelberg 2013, pp. 248-259.**
 26. Praveen Pawar, Aditya Trivedi and K. V. Arya, "**Diversity-Multiplexing-Delay Tradeoff in Decode-And-Forward MIMO Relay Network with CC-ARQ**", In Proc. of International Conference on Computational Intelligence and Communication Networks (CICN 2013), **27-29, 2013, Mathura, India.**
 27. Harish Sharma, Pragati Shrivastav, Jagdish Chand Bansal, and K.V. Arya, "**Fitness based Self Adaptive Differential Evolution**", Nature Inspired Cooperative Strategies for Optimization (NICSO 2013), **Springer-Verlag Berlin Heidelberg 2013.**
 28. Varsha Sarawagi and K. V. Arya, "**Automatic Facial Expression Recognition for Image Sequences**", Proc. IEEE Sixth International Conference on Contemporary Computing (IC3), **8-10, 2013, Noida, India.**
 29. Sandeep Agrawal, K. V. Arya and Vinay Rishiwal, "**Fallout of Different Routing Structures for Different Mobility Patterns in Large Ad-Hoc Networks**", In Proc. of Confluence 2013, **26-27, Noida, India.**
 30. Saraswat and K. V. Arya, "**Leukocyte Classification in Skin Tissue Images**", In Proc. of Seventh International Conference on Bio-Inspired Computing: Theories and Applications, **Dec. 2013, Gwalior, India.**
 31. Meenakshi, D. Puja, M. Saraswat, and K. V. Arya, "**Automatic Agricultural Leaves Recognition System**", In Proc. of Seventh International Conference on Bio-Inspired Computing: Theories and Applications. Springer India, 2013. pp 123-131.
 32. Tiwari, K. V. Arya, and M. Saraswat, "**Digital Video Watermarking Using Scene Detection**", In Proc. of Seventh International Conference on Bio-Inspired Computing: Theories and Applications. Springer India, 2013. pp 315-323.
 33. Harish Sharma, Jagdish Chand Bansal, and K. V. Arya, "**Diversity Measures in Artificial Bee Colony**", In Proc. of Seventh International Conference on Bio-Inspired Computing: Theories and Applications. Springer India, 2013. pp 299-314.
 34. Nafis Uddin Khan, K. V. Arya, and Manisha Pattanaik, "**Fuzzy Based Diffusion Coefficient Function in Anisotropic Diffusion for Impulse Noise Removal**", of 8th Indian Conference on Vision, Graphics and Image Processing (ICVGIP2012), **Dec. 16-19, 2012, Mumbai, India.**

35. Mukesh Saraswat and K. V. Arya, "**Leukocyte Classification in Skin Tissue Images**", Proc. of 7th Intl. Conf. on Bio-Inspired Computing: Theories and Application (BICTA-2012), Dec. 14-16, 2012, Gwalior, India, [Advances in Intelligent Systems and Computing](#), **Vol. 201, 2013, pp. 123 - 131**, Springer-India.
36. Harish Sharma, Jagdish Chand Bansal and K. V. Arya, "**Diversity Measures in Artificial Bee Colony**", of 7th Intl. Conf. on Bio-Inspired Computing: Theories and Application (BICTA-2012), Dec. 14 -16, 2012, Gwalior, India, [Advances in Intelligent Systems and Computing](#), **Vol. 201, 2013, pp 299-314, Springer-India.**
37. Dinesh Tiwari, K. V. Arya and Mukesh Saraswat, "**Digital Video Watermarking using Scene Detection**", Proc. of 7th Conf. on Bio-Inspired Computing: Theories and Application (BICTA-2012), **Dec. 14-16, 2012, Gwalior, India**, [Advances in Intelligent Systems and Computing](#), **Vol. 201, 2013, pp. 315-323, Springer-India.**
38. V. Arya and Baby Ramya Vadlamudi, "**An Ontology-Based Topical Crawling Algorithm for Accessing Deep Web Content**", Proc. of International Conference on Computer and Communication Technology, **Nov. 23-25, 2012, Allahabad, India.**
39. V. Arya and Hemant Kumar, "**A Clustering based Algorithm for Network Intrusion Detection**", Proc. of ACM International Conference on Security in Information & Networks (SIN'12), **Oct. 25-27, 2012, Jaipur, India, pp.193-196.**
40. V. Arya, Anurag Gupta, Gyanendra Kumar and Piyush Singhal, "**A novel approach to minimize the impact of non-ideal samples in iris recognition system**", Proc. of International Conference on Computer and Communication Technology, **Nov. 23-25, 2012, Allahabad, India.**
41. V. Arya and Mukesh Saraswat, "**Automatic Agricultural Leaves Recognition System**", Proc. of 7th Intl. Conf. on Bio Inspired Computing, Theory and Applications (BICTA-2012), **Dec. 14-16, 2012, Gwalior, India.**
42. Uasha Banerji, K. V. Arya, Geetika Gupta, and Sakshi Sharma, "**Performance Evaluation of an Ant Colony Based Routing Algorithm in the presence of a Misbehaving Node**", Proc. of 1st International Conference Security of Internet of Things (SecurIT2012), **17-19, 2012, Amritapuri, Clappana, India.**
43. Harish Sharma, Jagdish Chandra Bansal, and K. V. Arya, "**Dynamic Scaling Factor based Differential Evolutionary Algorithm**", Lecture notes on Advances in Intelligent and Soft Computing, 2012, **130, Springer-Verlag Berlin Heidelberg, 2012, pp. 73-85.**

44. V. Arya and Saurabh Singh, "**Generating Cancelable Fingerprint Using Drawing Code**", Lecture notes on Advances in Intelligent and Soft Computing, **Vol. 131, Springer-Verlag Berlin Heidelberg, 2012, pp. 189-195.**
45. Mukesh Saraswat, and K. V. Arya, "**Automatic Facial Expression Recognition in an Image Sequence of Non-Manual Indian Sign Language Using Support Vector Machine**", Lecture notes on Advances in Intelligent and Soft Computing, **131, Springer-Verlag Berlin Heidelberg, 2012, pp. 267-275.**
46. Rohit Katiyar, K. V. Arya, and Vinay Kumar Pathak, "**Multiview Gait Recognition based on Silhouettes Generated after Shadow Detection and Removal using Photometric Properties Method**", Lecture notes on Advances in Intelligent and Soft Computing, **131, Springer-Verlag Berlin Heidelberg, 2012, pp. 377-389.**
47. Nafis Uddin Khan, K. V. Arya, and Manisha Pattanaik, "**A New Adaptive Thresholding in SVD for Efficient Image De-noising**", Lecture notes on Advances in Intelligent and Soft Computing, **131, Springer-Verlag Berlin Heidelberg, 2012, pp. 659-670.**
48. Poonam Sharma, K. V. Arya and R. N. Yadav, "**Extraction of Facial Features using Higher Order Moments in Curvelet Transform and Recognition using Generalized Mean Neural Networks**", Lecture notes on Advances in Intelligent and Soft Computing, **131, Springer-Verlag Berlin Heidelberg, 2012, pp. 769-780.**
49. Jagdish Chand Bansal, Harish Sharma, and K. V. Arya, "Model order reduction of single input single output systems using artificial bee colony optimization algorithm", Book Chapter in Nature Inspired Cooperative Strategies for Optimization NICSO 2011, SCI 387, Eds.:David Alejandro **85-100, Springe-Verlag Berlin Heidelberg 2011.**
50. Harish Sharma , Jagdish Chand Bansal, and K.V. Arya, "**Hybridizing x^{th} root problem with RSA for design an efficient Digital Signature Algorithm**", Proc. of IEEE 2011 International Conference on Network Communication and Computer (ICNCC2011), **March 19-20, 2011, New Delhi, India, pp. 357-360.**
51. Jagdish Chand Bansal, Harish Sharma, and K.V. Arya, "**A New Digital Signature Scheme Based on Factoring and Discrete Logarithms**", Proc. of 4th IEEE International Conference on Computer Science and Information Technology, **June 10-12, 2011, Chengdu, Sichuan, China, pp. 458-463.**
52. V. Arya, Vaibhav Gupta and Prerna Vashistha, "**Detection of Wormhole Attack in MANETs using Dual Phase Technique**", Proc. Centenary Conference, Electrical Engineering, IISc, Bangalore, **Dec. 15-17, 2011, India.**

53. Krishan Pal and K. V. Arya, "**An Efficient Face Recognition System using ICA and Moment Invariants**", In Proc. 5th Indian International Conference on Artificial Intelligence, **15-16, 2011, Tumkur, India.**
54. Rakesh Kumar and K. V. Arya, "**A Modified Approach for Route Maintenance using Alternate Path in AODV**", In Proc. The International Conference on Computational Intelligence and Communication Networks (CICN2011), **7 – 9, 2011, Gwalior, India.**
55. Shashi Shekhar, K. V. Arya, Rohit Agarwal and Rakesh Kumar, "**A WEBIR Crawling Framework for Retrieving Highly Relevant Web Documents: Evaluation Based on Rank Aggregation and Result Merging Algorithms**", In Proc. The International Conference on Computational Intelligence and Communication Networks (CICN 2011), **7 – 9, 2011, Gwalior, India.**
56. Rohit Agarwal, K. V. Arya, Shashi Shekhar and Rakesh Kumar, "**An Efficient Weighted Algorithm for Web Information Retrieval System**", In Proc. The International Conference on Computational Intelligence and Communication Networks (CICN 2011), **7 – 9, 2011, Gwalior, India.**
57. V. Arya, Lovelesh Saxena and Anuj Tewari, "**A Novel Technique for Secure Information Transmission Using Framed Video Watermarking**", Lecture Notes on [Advances in Intelligent and Soft Computing](#), Vol. 102, **Springer-Verlag Berlin Heidelberg, 2011, pp. 245-256.**
58. V. Arya, Prerna Vashistha and Vaibbhav Gupta, "**Three Phase Technique for Intrusion Detection in Mobile ad hoc network**", In Proc. The International Conference on Digital Information and Communication Technology and its Applications, **June 21-23, 2011, Dijon, France.**
59. V. Arya, Anuj Tewari and Lovelesh Sexena, "**A Novel Technique for Biometrics-based User Identification using Watermarking and Visual Cryptography**", International Conference on Computer Applications and Network Security, **May 27-29, 2011, Maldives.**
60. Anuj Tewari, Balbir Singh and K. V. Arya, "**Robust Secret Sharing of Image using Compressive Sensing and Visual Cryptography**," In Proc. The 26th International Technical Conference on Circuits/Systems, Computers and Communications, **June 19-22, 2011, Gyeongju, Korea.**
61. P. Singh, K. V. Arya, D. Singh and A. N. Gaikwad, "**Study of Shape Detection for Through Wall Imaging Generated Data**", In Proc. International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS 2011), **Dec. 7-10, 2011, Jodhpur, India.**

62. Nafis Uddin Khan, K. V. Arya, and Manisha Pattanaik, "**A Robust PDE Based Image De-noising Method**", In Proc. 3rd International Conference on Signal Acquisition and Processing (ICSAP 2011), **Feb. 26 – 28, 2011, Singapore.**
63. Amarankit Srivastava, K. V. Arya, and Anil Kumar Kuraichya, "**Service-Oriented Business Ontology: Challenges and Opportunities in the Implementation of SOA in Current Business Scenario**", In Proc. 2011 3rd International Conference on Machine Learning and Computing (ICMLC 2011), **26-28, 2011, Singapore.**
64. Mano Yadav, K. V. Arya, and V. Rishiwal, "**Improved Ant Colony Optimization Technique for Mobile Adhoc Networks**", Lectures Notes on Communication in Computer and Information Science, Vol. 131, Part 1, **Springer-Verlag Berlin Heidelberg, 2011, pp. 1-13.**
65. Jagdish Chand Bansal, Harish Sharma, and K. V. Arya, "Dynamic Scaling Factor Based Differential Evolution Algorithm", In Proc. of International Conference on SocProS, 2011, pp. 73-85.
66. K. Meena, K. V. Arya and R. Kala, "**Classification using Redundant Mapping in Modular Neural Network**", In Proc. World Congress on Nature and Biologically Inspired Computing (NaBIC2010), **Dec. 15-17, 2010, Kitakyushu, Japan.**
67. Nafis Uddin Khan, K. V. Arya and Manisha Pattanaik, "**An Adaptive Image Noise Removal And Enhancement Method**", In Proc. IEEE Intl. Conference on Systems, Man and Cybernetics (SMC2010), **October, 10-13, 2010, Istanbul, Turkey.**
68. V. Arya, Rohit Agrawal and Shashi Shekhar, "**An Architectural Framework for Web Information Retrieval Based on User's Navigation Pattern**", In Proc. 5th IEEE Intl. Conf. on Industrial and Information Systems (ICIIS2010), **July29-Aug1, 2010, Mangalore, India.**
69. Karishma Chawla, Veena Bansal, K. V. Arya and Anupam Shukla, "**Face Recognition Using Principal Component Analysis and Multi-class Support Vector Machine**", In Proc. 14th International Conference on Image Processing, Computer Vision, & Pattern Recognition (ICIP'10), **July 12-15, 2010, Las Vegas, Nevada, USA.**
70. V. Arya, Shashi Shekhar, and Rohit Agrawal, "**An Architectural Framework of a Crawler for Retrieving Highly Relevant web Documents by Filtering Replicated Web Collections**", In Proc. Intl. Conference on Advances in Computer Engineering (ACE 2010), **June 21-22, 2010, Bangalore, India.**
71. Kshitiz Agarwal and K. V. Arya, "**A Data Compression Algorithm for Normal Texts**", In Proc. Intl. Conference on Advances in Computer Engineering (ACE 2010), **June 21-22, 2010, Bangalore, India.**

72. Munesh Chandra, A. M. Shah, and K. V. Arya, "**New Pythagoreans Fractal Plants**", In Proc. The 2010 International Conference on Modeling, Simulation and Control (ICMSC 2010), **2010, Cairo, Egypt.**
73. V. Arya, "**An efficient 2-D Image Registration Algorithm**", In Proc. IEEE Intl. Conf. on Industrial and Information Systems (ICIIS 2009), **Dec. 2009, Peradeniya, Sri Lanka.**
74. Mukesh Saraswat and K. V. Arya, "**Automatic Facial Landmark Detection in a Video Sequences of Non-Manual Sign Languages**", In Proc. IEEE Conf. on Industrial and Information Systems (ICIIS 2009), **Dec. 2009, Peradeniya, Sri Lanka.**
75. Manu Pratap Singh, K. V. Arya and Kajal Sharma, "**Video Compression using Self Organizing Map and Pattern Storage using Hopfield Neural Network**", In Proc. IEEE Conf. on Industrial and Information Systems (ICIIS 2009), **Dec. 2009, Peradeniya, Sri Lanka.**
76. Munesh Chandra, K. V. Arya and S. Sarangdevot, "**New Sierpinski's Models**", In Proc. IEEE Intl. Conf. on Industrial and Information Systems (ICIIS 2009), **Dec. 2009, Peradeniya, Sri Lanka.**
77. Mukesh Tiwari, Kumar Sidharth Chaudhary, Rahul Choudhari, and Karm Veer Arya, "**Designing Intrusion Detection to Detect Black hole and Selective Forwarding Attack in WSN based on local Information**", In Proc. International Conference on Computer Sciences and Convergence Information Technology (ICCIT2009), **2009, Seoul, South Korea.**
78. Rahul Choudhari, K. V. Arya and Mukesh Tiwari, "**Performance Evaluation of SCTP Sec: A Secure SCTP mechanism**", International Conference on Computer Sciences and Convergence Information Technology (ICCIT2009), **2009, Seoul, South Korea.**
79. Kumar Sidharth Chaudhary, Somnath Tripathy and Karm Veer Arya, "**SADAB: Self Assured Black-Hole Attack Detection on AODV Protocol in MANET**", In Proc. 2009 International Conference on Computer and Network Technology (ICCNT2009), **July 2009, Chennai, India.**
80. Vinay Rishiwal, Hirdesh Kumar, K. V. Arya and Mano Yadav, "**Multiple Secret Image Sharing Scheme**," In Proc. IEEE Conf. on Industrial and Information Systems (ICIIS 2008), **Dec. 2008, India.**
81. V. Arya, Viraat Singh, P. Mitra and P. Gupta, "**Efficient Face Recognition using Parallel Associative Memory**", In Proc. IEEE Intl. Conf. on Systems, Man, and Cybernetics (SMC 2008), **Oct. 2008, Singapore.**
82. V. Arya and P. Gupta, "**Registration Algorithm for Motion Blurred Images**", **In Proc. 6th Intl. Conf. on Advances in Pattern Recognition (ICAPR 2007)**, Jan. 2007, Kolkata, India.

83. Suvesh Mathur, K. V. Arya, Vinay Rishiwal and P. N. Joglekar, "**Robust Image Registration Technique for SAR Images**", In Proc. IEEE Intl. Conf. on Industrial and Information Systems (ICIIS 2006), 2006, Peradeniya, Sri Lanka.
84. Lokhande, K. V. Arya and P. Gupta, "**Identification of Parameters and Restoration of Motion Blur Images**", In Proc. 2006 ACM Symposium on Applied computing (SAC 2006), April 2006, Dijon, France.
85. V. Arya, A. Kamal and P. Gupta, "**Image Processing Algorithms for Boundary Detection in Wireless Sensor Networks**", In Proc. 2005 Intl. Conf. on Ubiquitous & Embedded Computing System and Management, Nov. 2005, DaeGu, South Korea.
86. V. Arya, P. Gupta and P. K. Kalra, "**A Cost Optimal Parallel Algorithm for Histogram Image Matching**", In Proc. IEEE TENCON 2004, Nov. 2004, Chiang Mai, Thailand.
87. Karm Veer Arya, S. R. Shankar and Lawrence Jenkins, "**Design of a New Class of Fault Tolerant Self –Routing Permutation Networks**", In Proc. 7th International Conference on Advanced Computing and Communications (ADCOM99), 1999, Roorkee, India.
88. Karm Veer Arya and U.K. Rai, "**The Heuristic Synthesis Algorithm for Reconfigurable Interconnection Networks**", In Proc. International Conference on Computer Applications in Electrical Engineering (CERA97), 1997, Roorkee, India.
89. Karm Veer Arya and Lawrence Jenkins, "**Enhancing Dynamic Full Accessibility by Reducing Switch Criticality in Multistage Interconnection Networks**", In Proc. Intl. Conf. on Advances in Computer Engineering (ACE'92) of IEEE India Council, Nov. 1992, Calcutta, India.
90. Karm Veer Arya, S. R. Shankar, M. J. Shanker Raman and Lawrence Jenkins, "**E-MINs: A New Class of Fault-Tolerant Multistage Interconnection Networks**", In Proc. IEEE Symposium on Intelligent Systems, 1991, Bangalore, India.
91. **FDP/Workshop organized**