

Journals (SCI/SCIE)

1. Neetesh Kumar, Navjot Singh, D. P. Vidyarthi. "Artificial Lizard Search Optimization (ALSO): A Novel Nature Inspired Meta-heuristic Algorithm," *Soft Computing*, 2021.
<https://doi.org/10.1007/s00500-021-05606-7>. SCI Expanded, Impact Factor – 3.050
2. Vivek Kumar Singh, Nitin Kumar, **Navjot Singh**, "A hybrid approach using color spatial variance and novel object position prior for salient object detection," *Multimedia Tools and Applications*, 79, 30045–30067, 2020.
SCI Expanded, Impact Factor – 2.313
3. Shikhar Sharma, Krishan Kumar, **Navjot Singh**, "Deep Eigen Space Based ASL Recognition System," *IETE Journal of Research*, Taylor & Francis, doi: 10.1080/03772063.2020.1780164, 2020.
SCI Expanded, Impact Factor – 1.125
4. **Navjot Singh**, "Saliency Threshold: a novel saliency detection model using Ising's theory on Ferromagnetism (STIF)," *Multimedia Systems*, 26, 397–411, 2020.
SCI, Impact Factor – 1.563
5. Anurag Pandey, Mayank Pandey, **Navjot Singh** and Abha Trivedi, "KUMBH MELA: a case study for dense crowd counting and modelling," *Multimedia Tools and Applications*, 79, 17837–17858, 2020
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6. **Navjot Singh**, K. K. Mishra and Sanjiv Bhatia, "SEAM - an improved environmental adaptation method with real parameter coding for salient object detection," *Multimedia Tools and Applications*, 79, 12995–13010, 2020.
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7. Shiv Naresh Shivhare, Nitin Kumar and **Navjot Singh**, "A Hybrid of Active Contour Model and Convex Hull for Automated Brain Tumor Segmentation in Multimodal MRI," *Multimedia Tools and Applications*, 78, 34207–34229, 2019.
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8. Rinki Arya, R. K. Agrawal and **Navjot Singh**, "A novel approach for salient object detection using double-density dual-tree complex wavelet transform in conjunction with superpixel segmentation," *Knowledge and Information Systems*, 60, 327–361, 2019.
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9. **Navjot Singh**, Rinki Arya and R. K. Agrawal, "Performance Enhancement of Salient Object Detection using Superpixel based Gaussian Mixture Model," *Multimedia Tools and Applications*, 77 (7), 8511–8529, 2018.
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10. Krishan Kumar, Deepti D. Shrimankar and **Navjot Singh**, "Eratosthenes Sieve based Key-frame Extraction Technique for Event Summarization in Videos," *Multimedia Tools and Applications*, 77 (6), 7383-7404, 2018.
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11. Rinki Arya, **Navjot Singh** and R. K. Agrawal, "A novel combination of second-order statistical features and segmentation using multi-layer superpixels for salient object detection," *Applied Intelligence*, 46, 254-271, 2017.
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12. **Navjot Singh**, Rinki Arya and R. K. Agrawal, "A novel position prior using fusion of rule of thirds and image center for salient object detection," *Multimedia Tools and Applications*, 76, 10521-10538, 2017.
SCI Expanded, Impact Factor – 2.313
13. **Navjot Singh**, Rinki Arya and R. K. Agrawal, "A Convex Hull approach in Conjunction with Gaussian Mixture Model for Salient Object Detection," *Digital Signal Processing*, 55, 22-31, 2016.
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14. Rinki Arya, **Navjot Singh** and R. K. Agrawal, "A novel hybrid approach for salient object detection using local and global saliency in frequency domain," *Multimedia Tools and Applications*, 75, 8267-8287, 2016. SCI Expanded, Impact Factor – 2.313
15. **Navjot Singh** and R. K. Agrawal, "Combination of Kullback–Leibler divergence and Manhattan distance measures to detect salient objects," *Signal, Image and Video Processing*, 9 (2), 427-435, 2015.
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16. **Navjot Singh**, Rinki Arya and R. K. Agrawal, "A novel approach to combine features for salient object detection using constrained particle swarm optimization," *Pattern Recognition*, 47 (4), 1731-1739, 2014.
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2. A Solanki, R Bamrara, K Kumar, **Navjot Singh**, “VEDL: a novel Video Event searching technique using Deep Learning,” In Soft Computing: Theories and Applications, pp. 905-914. Springer, Singapore, 2020.
3. K Kumar, R Bamrara, P Gupta, **Navjot Singh**, “M2P2: Movie's trailer reviews-based Movie Popularity Prediction system,” In Soft Computing: Theories and Applications, pp. 671-681. Springer, Singapore, 2020.
4. SN Shivhare, S Sharma and **Navjot Singh**, “An Efficient Brain Tumor Detection and Segmentation in MRI using Parameter-free Clustering,” In Machine intelligence and signal analysis, pp. 485-495. Springer, Singapore, 2019.
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13. A. Atrish, **Navjot Singh**, Krishan Kumar, V. Kumar, “An Automated Hierarchical Framework for Player Recognition in Sports Image,” In Proceedings of the International Conference on Video and Image Processing, pp. 103-108. 2017.
14. S Sharma, K Kumar and **Navjot Singh**, “D-FES: Deep Facial Expression recognition System,” In 2017 Conference on Information and Communication Technology (CICT), pp. 1-6. IEEE, 2017.

15. Anurag Kumar, **Navjot Singh**, Piyush Kumar and Aditya Vijayvergia, "A novel Superpixel based Color Spatial feature for Salient Object Detection," In 2017 Conference on Information and Communication Technology (CICT), pp. 1-5. IEEE, 2017.
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18. Krishan Kumar, Deepti Shrimankar and **Navjot Singh**, "Equal Partition based Clustering approach for Event Summarization in Videos," In 2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), pp. 119-126. IEEE, 2016.

Book Chapters

1. Sakshi Aggarwal, **Navjot Singh** and K. K. Mishra. "Digital Image Analysis Is a Silver Bullet to COVID-19 Pandemic," In Computational Intelligence Methods in COVID-19: Surveillance, Prevention, Prediction and Diagnosis, pp. 397-414. Springer, Singapore, 2020.