**Brief Bio: Tapan K. Gandhi**

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Dr Tapan K Gandhi is working as Professor in the Dept. of Electrical Engineering, Cadence Chair Professor of AI and Automation, Joint Faculty in School of AI, IIT Delhi and adjunct faculty in the school of AI and data science, IIT Jodhpur. He received his Ph.D. fellowship from (Project Prakash, MIT, USA) and obtained his Ph.D. in Biomedical Engineering from IIT Delhi.

Following his Ph.D., he has spent couple of years as Postdoctoral Associate at MIT, USA. Dr Gandhi was also awarded an INSPIRE Faculty in the engineering & technology category of the Department of Science & Technology, Govt. of India. During this 5 years tenure, he is awarded as the excellent INSPIRE Faculty by DST, Govt. of India. His research expertise spans from Computational Neuroscience, Brain imaging, Machine Learning, Cognitive Computing , Artificial intelligence to responsible Gaming.

He has published papers in top ranking journals like **Science**, **Nature**, **PNAS, Current Biology, PloS Biology, IEEE Transactions**. He has more than 250 publications in International journals and conference proceedings.

He has received many awards in India (including one from Ex-President of India, Dr Kalam) and abroad for his academic excellence and groundbreaking research. His research work is not only published in top-notch journals but also appeared in many popular presses including TIME magazine, the Boston Globe, the New York Times, MIT News, Harvard News, Wall street Journal and also in the **SCIENCE** Magazine. Dr Gandhi’s work was selected as cover page in Science Magazine in 2015. He has delivered many invited talks in National and International Universities like MGH, Harvard University, Yale University, Copenhagen University, University of Groningen, Sorbonne University. He has guided 17 PhDs and more than 40 master thesis and currently 15 PhD students are registered with him working at the interface of natural and artificial intelligence. Dr Gandhi’s lab is involved in various Govt. funded, International projects, and Industry consultancy. He has served as expert member (Task Force) in  various research and strategic committees in Govt. of India, UNESCO and other organizations.

He has six patents and three technologies transfer to Ministry of Social Justice, Govt. of India. He has received many awards and fellowships like Platinum Jubilee YOUNG SCIENTIST award 2015 by National Academy of Science in INDIA and GYTI 2019 Award, Chair Fellow (iHUB DivyaSampark, Technology Innovation Hub, IIT Roorkee) and Abdul Kalam Technology Innovation National Fellowship. He is elected **Fellow** of both ***National Academy of Engineering (FNAE) and National Academy of Sciences (FNASc.)***. He is also elected Fellow of Industry Academy within the International Artificial Intelligence Industry Alliance (AIIA). Dr Gandhi is mentoring three start-ups; (1) CLUIX (<https://www.cluix.in/>), (2) JAROBLE ([https://www.jaroble.com](https://www.jaroble.com/)), (3) WinV (<https://winv.in/>).

**Publications in peer-reviewed Journals (**12 Papers in **more than 10 Impact Factor** journal)

1. S.K. Khokhar, **T.K. Gandhi**, R.D. Bharath. Alzheimer’s disease is associated with increased modularity and assortativity: Evidence from structural and metabolic connectivity, Brain Connect 2023 Dec;13(10):610-620. doi: 10.1089/brain.2023.0024. , **Impact Factor: 2.4**
2. R. Dev, S. Kumar, **T.K. Gandhi**. Does Distance Between Electrodes Affect the Accuracy of Decoding the Motor Imagery Using EEG?, IEEE Sensors Letters, 2024. **Impact Factor: 2.43**
3. K. Lohia, R.S. Soans, R. Saxena, T.K. Gandhi. An interactive framework for the evaluation and detection of stereoacuity threshold under ambient lighting, arXiv preprint arXiv:2406.18336, 2024.
4. K. Lohia, R.S. Soans, R. Saxena, **T.K. Gandhi**. Single-trial fMRI positional decoding of 3D Brownian motion in patients with Intermittent Exotropia, Investigative Ophthalmology & Visual Science, vol. 65, no. 7, pp. 1158-1158, 2024. **Impact Factor: 5.0**
5. S. Gupta, **T. Gandhi**. ERP and Functional Connectivity Reveal Hemispheric Asymmetry in Perceptual Grouping, Neuroscience Informatics, pp. 100167, 2024. **Impact Factor: 3.0**
6. P. Singh, A. Tripathi, **T.K. Gandhi**, L. Kumar. Exploring Age-Related Functional Brain Changes During Audio-Visual Integration Tasks in Early to Mid-Adulthood, Neuroscience Informatics, pp. 100172, 2024. **Impact Factor: 3.0**
7. P. Tripathi, MA Ansari, **T.K. Gandhi**, et al. Computational ensemble expert system classification for the recognition of bruxism using physiological signals, Heliyon, vol.10, no. 4, 2024. **Impact Factor: 3.4**
8. A. Bhongade, R. Gupta, **T.K. Gandhi**, AP Prathosh. Intelligent Single IMU Sensor Module for Gait Temporal Parameter Estimation, Authorea Preprints, 2024.
9. A. Bhongade, R. Gupta, Prathosh AP, & **T. Gandhi**(2024). ResPara-Net: Respiration Parameter Estimation Using Wearable Single Inertial Measurement Unit Sensor and Deep Learning, IEEE Sensor Journal ,vol. 24, no. 15, pp. 24931-24944. **Impact Factor: 2.43**
10. G. Chandra, **T.K. Gandhi**, B.Singh (2024). Designing Controllers for Hand Tremor Suppression Using Model Simplification, Biomedical Signal Processing and Control, vol. 96, pp. 106483, Part A, 2024. **Impact Factor: 4.9**
11. M. Vogelsang , L. Vogelsang , P. Gupta, **T.K. Gandhi** et al. (2024). Impact of early visual experience on later usage of color cues. ***Science****,* vol.384, no. 6698, pp. 907-912*.* [DOI: 10.1126/science.adk9587](https://doi.org/10.1126/science.adk9587)*,*Impact Factor: 48
12. K. Lohia, R. S. Soans, K. Mahajan, R. Saxena and **T. K. Gandhi** (2024). Distinct rich and diverse clubs regulate coarse and fine binocular disparity processing: Evidence from stereoscopic task-based fMRI. i**Science**, vol. 27, no. 6, DOI: <https://doi.org/10.1016/j.isci.2024.109831>, Impact Factor: 6.9
13. S. Mishra, C. A. Pedersini, R. Mishra, B. Roker, B. Biswal, **T. K. Gandhi** (2024). Tracts in the Limbic System show microstructural alterations post COVID-19 recovery. *Brain Communications, vol.6, no. 3*,Impact Factor: 4.9
14. G. Pavani P., B. Biswal and **T. K. Gandhi** (2024). Robust Semantic Segmentation of Retinal Fluids from SD-OCT images using FAM-U-Net. *Biomedical Signal Processing and Control, Elsevier*, vol. 87, pp. 105481,Impact Factor: 5.076
15. S. Madan, S. Chaudhury and **T. K. Gandhi** (2023). Explainable few-shot learning with visual explanations on a low resource pneumonia dataset. Pattern Recognition Letter, Elsevier. <https://doi.org/10.1016/j.patrec.2023.10.013>. Impact Factor: 4.757
16. C. Ralekar, **T. K. Gandhi** and S. Chaudhury (2023). Collaborative Human Machine Attention Module for Character Recognition. *IEEE Trans. Artif. Intell.*,2023, doi: 10.1109/TAI.2023.3289167,Impact Factor: 6.95
17. T. Kaur and **T. K. Gandhi** (2023). Automated diagnosis of Epileptic Seizures  using  EEG image representations and Deep Learning, *Neuroscience Informatics.*, vol. X pp. YY–YY, 2023, Impact Factor: 2.86  **(Press).**
18. G. Pavani P., B. Biswal and **T. K. Gandhi** (2023). Simultaneous multiclass retinal lesion segmentation using fully automated RILBP-YNet in diabetic retinopathy. *Biomedical Signal Processing and Control, Elsevier,* Vol. 86, Part B, September 2023, 105205, ),Impact Factor: 5.076
19. R. S. Soans, R. J. Renken, R. Saxena, R. Tandon, F. W. Cornelissen, and **T. K. Gandhi** “A framework for the continuous evaluation of 3D Motion Perception in Virtual Reality,” *IEEE Trans. Biomed. Eng.,* doi: 10.1109/TBME.2023.3271288, 2023, Impact Factor: 4.75
20. C. A. Pedersini, A. Miller, N.P., and **T. K. Gandhi\***, “White Matter Plasticity Following Sight- Recovery in Congenitally Blind Patients,” *PNAS*, 2023, 120 (19) e2207025120, [doi.org/10.1073/pnas.22070251](https://doi.org/10.1073/pnas.2207025120), Impact Factor: 12.78
21. J. Maheswari, S.D. Joshi, **T. K. Gandhi**, "Analysing the Brain Networks corresponding to the Facial Contrast-Chimeras. *Perception,* 2023, *52*(6), 371–384. <https://doi.org/10.1177/03010066231169002>, Impact Factor: 1.9
22. R. Dev, S. Kumar, **T. K. Gandhi,** “Tracking Brain Transitions”, *IEEE Sensors Lett.*, 2023, vol. 7, no. 5, pp. 1-4, May 2023, Art no. 7002004, doi: 10.1109/LSENS.2023.3269672, Impact Factor: 3.04
23. C. B. Kumar, A.K. Mondal, M. Bhatia, B. K. Panigrahi, and **T. K. Gandhi**, “Self-Supervised Representation learning Based OSA detection method using single channel ECG signal,” *IEEE Trans. Instrum. Meas.*, 2023, vol. 72, pp. 1-15, 2023, Art no. 2511915, doi: 10.1109/TIM.2023.3261931, Impact Factor: 4.0
24. S. Gautam, **T. K. Gandhi**, and B. K. Panigrahi, “WMCP-EM: An integrated dehazing framework for visibility restoration in single image,” *Comput. Vis. Image Underst.*, vol. 229, p. 103648, 2023, Impact Factor: 3.8
25. P. Singh, **T. K. Gandh**i, and others, “Reorganization of resting-state brain network functional connectivity across human brain developmental stages,” *Brain Res.*, vol. 1800, p. 148196, 2023, Impact Factor: 3.2
26. D. Konar, S. Bhattacharyya, **T. K. Gandhi\***, B. K. Panigrahi, and R. Jiang, “3D Quantum-inspired self-supervised tensor network for volumetric segmentation of medical images,” *IEEE Trans. Neural Networks Learn. Syst.*, doi: 10.1109/TNNLS.2023.3240238, 2023, Impact Factor: 14.26
27. P. Gupta, P. Shah, S. Shrestha, S. Gilad-Gutnick, S. Ganesh, **T. K. Gandhi**, and P. Sinha, “Vulnerability of facial attractiveness perception to early and multi-year visual deprivation,” *Dev. Sci.*, vol. 26, no. 1, p. e13258, 2023, Impact Factor: 5.01
28. S. Ahuja, B. K. Panigrahi, and **T. K. Gandhi**, “Enhanced performance of Dark-Nets for brain tumor classification and segmentation using colormap-based superpixel techniques,” *Mach. Learn. with Appl.*, vol. 7, p. 100212, 2022, Impact Factor: 6.7
29. R. S. Soans, R. J. Renken, R. Saxena, R. Tandon, **T. K. Gandhi**, and F. W. Cornelissen, “Exploring the potential of portable visual fields assessment using Virtual-Reality and eye movement based perimetry,” in *PERCEPTION,* 2022, vol. 51, p. 158, Impact Factor: 1.9
30. J. Maheshwari, S. D. Joshi, and **T. K. Gandhi**, “Real-Time Automated Epileptic Seizure Detection by analysing Time Varying High Spatial Frequency Oscillations,” *IEEE Trans. Instrum. Meas.*, 2022, Impact Factor: 4.0
31. R. Wadhawan and **T. K. Gandhi**, “Landmark-aware and Part-based Ensemble Transfer Learning Network for Static Facial Expression Recognition from images,” *IEEE Trans. Artif. Intell.*, 2022, Impact Factor: 6.95
32. T. Kaur and **T. K. Gandhi**, “Classifier Fusion for Detection of COVID-19 from CT Scans,” *Circuits, Syst. signal Process.*, pp. 1–18, 2022, Impact Factor: 2.31
33. E. Striem-Amit, S. Sen, N. Tong, X. Wang, **T. K. Gandhi**, V. Mahajan, S. Ben-Ami, S. Gilad-Gutnick, Y. Bi, and P. Sinha, “Individual differences of brain plasticity in early visual deprivation and sight restoration,” *J. Vis.*, vol. 22, no. 14, p. 3483, 2022, Impact Factor: 2.1
34. S. Ahuja, B. K. Panigrahi, N. Dey, A. Taneja, and **T. K. Gandhi**, “McS-Net: Multi-class Siamese network for severity of COVID-19 infection classification from lung CT scan slices,” *Appl. Soft Comput.*, vol. 131, p. 109683, 2022, Impact Factor: 8.263
35. G. Pavani, B. Biswal, and **T. K. Gandhi**, “Multistage DPIRef-Net: An effective network for semantic segmentation of arteries and veins from retinal surface,” *Neurosci. Informatics*, vol. 2, no. 4, p. 100074, 2022, Impact Factor: 4.08
36. P. Tripathi, M. A. Ansari, **T. K. Gandhi**, R. Mehrotra, M. B. Bin Heyat, F. Akhtar, C. C. Ukwuoma, A. Y. Muaad, Y. M. Kadah, M. A. Al-Antari, and others, “Ensemble Computational Intelligent for Insomnia Sleep Stage Detection via the Sleep ECG Signal,” *IEEE Access*, vol. 10, pp. 108710–108721, 2022. Impact Factor: 3.36
37. K. Lohia, R. S. Soans, D. Agarwal, R. Tandon, R. Saxena, and **T. K. Gandhi**, “Stereopsis following surgery in children with congenital and developmental cataracts: A systematic review and meta-analysis,” *Surv. Ophthalmol.*, vol. 68, no. 1, pp.126-141, 2023, Impact Factor: 6.197
38. A. Giri, L. Kumar, N. Kurwale, and **T. K. Gandhi**, “Anatomical harmonics basis based brain source localization with application to epilepsy,” *Sci. Rep.*, vol. 12, no. 1, p. 11240, 2022, Impact Factor: 4.996
39. P. Gupta, P. Shah, S. G. Gutnick, M. Vogelsang, L. Vogelsang, K. Tiwari, **T. K.Gandhi**, S. Ganesh, and P. Sinha, “Development of visual memory capacity following early-onset and extended blindness,” *Psychol. Sci.*, vol. 33, no. 6, pp. 847–858, 2022, Impact Factor: 7.09
40. R. Hafiz, **T. K. Gandhi**, S. Mishra, A. Prasad, V. Mahajan, X. Di, B. H. Natelson, and B. B. Biswal, “Higher Limbic and Basal Ganglia volumes in surviving COVID-negative patients and the relations to fatigue,” *Neuroimage: Reports*, vol. 2, no. 2, p. 100095, 2022, Impact Factor: 6.55
41. H. Padole, S. D. Joshi, and **T. K. Gandhi**, “Early Detection of Alzheimer’s Disease Using Graph Signal Processing and Deep Learning.,” *Intell. Autom. Soft Comput.*, vol. 31, no. 3, 2022, Impact Factor: 1.65
42. S. Gautam, **T. K. Gandhi**, and B. K. Panigrahi, “A Model-based dehazing scheme for unmanned aerial vehicle system using radiance boundary constraint and graph model,” *J. Vis. Commun. Image Represent.*, vol. 74, p. 102993, 2021, Impact Factor: 2.6
43. T. Kaur, **T. K. Gandhi**, and B. K. Panigrahi, “Automated Diagnosis of COVID-19 using Deep Features and Parameter Free BAT Optimization,” *IEEE J. Transl. Eng. Heal. Med.*, vol. 9, pp. 1–9, 2021, Impact Factor: 3.31
44. R. S. Soans, R. J. Renken, J. John, A. Bhongade, D. Raj, R. Saxena, R. Tandon, **T. K. Gandhi**, and F. W. Cornelissen, “Patients Prefer a Virtual Reality Approach Over a Similarly Performing Screen-Based Approach for Continuous Oculomotor-Based Screening of Glaucomatous and Neuro-Ophthalmological Visual Field Defects,” *Front. Neurosci.*, vol. 15, 2021, Impact Factor: 4.6
45. A. Giri, L. Kumar, and **T. K. Gandhi**, “Cortical Source Domain Based Motor Imagery and Motor Execution Framework for Enhanced Brain Computer Interface Applications,” *IEEE Sensors Lett.*, 2021, Impact Factor: 2.36
46. S. Azimi, R. Wadhawan, and **T. K. Gandhi**, “Intelligent Monitoring of Stress Induced by Water Deficiency in Plants Using Deep Learning,” *IEEE Trans. Instrum. Meas.*, vol. 70, pp. 1–13, 2021, Impact Factor: 3.6
47. S. Ahuja, B. K. Panigrahi, N. Dey, V. Rajinikanth, and **T. K. Gandhi**, “Deep transfer learning-based automated detection of COVID-19 from lung CT scan slices,” *Appl. Intell.*, vol. 51, no. 1, pp. 571–585, 2021, Impact Factor: 3.325
48. **T. K. Gandhi**, K. Tsourides, N. Singhal, A. Cardinaux, W. Jamal, D. Pantazis, M. Kjelgaard, and P. Sinha, “Autonomic and Electrophysiological Evidence for Reduced Auditory Habituation in Autism,” *J. Autism Dev. Disord.*, vol. 51, no. 7, pp. 2218–2228, 2021, Impact Factor: 3.4
49. J. Ye, P. Gupta, P. Shah, K. Tiwari, **T. K. Gandhi**, S. Ganesh, F. Phillips, D. Levi, F. Thorn, S. Diamond, and others, “Resilience of temporal processing to early and extended visual deprivation,” *Vision Res.*, vol. 186, pp. 80–86, 2021, Impact Factor: 2.53
50. G. P. Pappu, B. Biswal, **T. K. Gandhi**, and M. V. S. Sai Ram, “Classification of neovascularization on retinal images using extreme learning machine,” *Int. J. Imaging Syst. Technol.*, vol. 31, no. 3, pp. 1536–1550, 2021, Impact Factor: 1.9
51. T. Kaur, A. Diwakar, P. Mirpuri, M. Tripathi, P. S. Chandra, **T. K. Gandhi**, and others, “Artificial Intelligence in Epilepsy,” *Neurol. India*, vol. 69, no. 3, p. 560, 2021, Impact Factor: 2.7
52. S. Azimi and **T. K. Gandhi**, “3-D maximum likelihood estimation sample consensus for correspondence grouping in 3-D plant point cloud,” *IEEE Sensors Lett.*, vol. 5, no. 6, pp. 1–4, 2021, Impact Factor: 2.31
53. R. S. Soans, A. Grillini, R. Saxena, R. J. Renken, **T. K. Gandhi**, and F. W. Cornelissen, “Eye-movement--based assessment of the perceptual consequences of glaucomatous and neuro-ophthalmological visual field defects,” *Transl. Vis. Sci. Technol.*, vol. 10, no. 2, p. 1, 2021, Impact Factor: 2.3
54. S. Azimi, T. Kaur, and **T. K. Gandhi**, “A deep learning approach to measure stress level in plants due to nitrogen deficiency,” *Measurement*, vol. 173, p. 108650, 2021, Impact Factor: 5.131
55. T. Kaur and **T. K. Gandhi**, “Deep convolutional neural networks with transfer learning for automated brain image classification,” *Mach. Vis. Appl.*, vol. 31, no. 3, pp. 1–16, 2020, Impact Factor: 2.983
56. D. Konar, S. Bhattacharyya, **T. K. Gandhi**, and B. K. Panigrahi, “A quantum-inspired self-supervised network model for automatic segmentation of brain MR images,” *Appl. Soft Comput.*, vol. 93, p. 106348, 2020, Impact Factor: 8.263
57. J. Maheshwari, S. D. Joshi, and **T. K. Gandhi**, “Tracking the Transitions of Brain States: An Analytical Approach Using EEG,” *IEEE Trans. Neural Syst. Rehabil. Eng.*, vol. 28, no. 8, pp. 1742–1749, 2020, Impact Factor: 3.4
58. J. Maheshwari, M. Bhatia, P. Swami, **T. K. Gandhi**, and S. D. Joshi, “Impact of CPAP on LF Power, HF Power and LF--HF Ratio in Patients with Severe OSA During Split Night Study,” *Sleep Vigil.*, vol. 4, no. 1, pp. 23–28, 2020, Impact Factor: 2.29
59. S. Gautam, **T. K. Gandhi**, and B. K. Panigrahi, “An Improved Air-Light Estimation Scheme for Single Haze Images Using Color Constancy Prior,” *IEEE Signal Process. Lett.*, vol. 27, pp. 1695–1699, 2020, Impact Factor: 2.53
60. T. Kaur, **T. K. Gandhi**, G. S. Bisht, and I. Adhikari, “Prevalence of foot problems and its related associations in Intellectually Disable (Special Olympic) Indian population,” *Foot*, vol. 42, p. 101650, 2020, Impact Factor: 1.32
61. H. Padole, S. D. Joshi, and **T. K. Gandhi**, “Graph wavelet-based multilevel graph coarsening and its application in graph-CNN for alzheimer’s disease detection,” *IEEE Access*, vol. 8, pp. 60906–60917, 2020, Impact Factor: 4.1
62. A. Giri, L. Kumar, and **T. K. Gandhi**, “Brain Source Localization in Head Harmonics Domain,” *IEEE Trans. Instrum. Meas.*, vol. 70, pp. 1–10, 2020, Impact Factor: 4.0
63. G. Dey, A. Ganguli, B. Bhattacharjee, and **T. K. Gandhi**, “Electrical response-based technique for estimation of degree of moisture saturation in cement concrete and mortar in drying and wetting cycle,” *Constr. Build. Mater.*, vol. 262, p. 120855, 2020, Impact Factor: 4.41
64. P. Sinha, S. Crucilla, **T. K.Gandhi**, D. Rose, A. Singh, S. Ganesh, U. Mathur, and P. Bex, “Mechanisms underlying simultaneous brightness contrast: early and innate,” J. *Vision Res.*, vol. 173, pp. 41–49, 2020, Impact Factor: 2.53
65. T. Gupta, **T. K. Gandhi**, R. K. Gupta, and B. K. Panigrahi, “Classification of patients with tumor using MR FLAIR images,” *Pattern Recognit. Lett.*, vol. 139, pp. 112–117, 2020, Impact Factor: 4.757
66. R. D. Bharath, R. Panda, J. Raj, S. Bhardwaj, S. Sinha, G. Chaitanya, K. Raghavendra, R. C. Mundlamuri, A. Arimappamagan, M. B. Rao, **T. K. Gandhi**, and others, “Machine learning identifies ‘rsfMRI epilepsy networks’ in temporal lobe epilepsy,” *Eur. Radiol.*, vol. 29, no. 7, pp. 3496–3505, 2019, Impact Factor: 4.1
67. P. Swami, M. Bhatia, M. Tripathi, P. S. Chandra, B. K. Panigrahi, and **T. K. Gandhi**, “Selection of optimum frequency bands for detection of epileptiform patterns,” *Healthc. Technol. Lett.*, vol. 6, no. 5, pp. 126–131, 2019, Impact Factor: 2.1
68. **T. K. Gandhi**, A. K. Singh, P. Swami, S. Ganesh, and P. Sinha, “Emergence of categorical face perception after extended early-onset blindness,” *PNAS.*, vol. 114, no. 23, pp. 6139–6143, 2017, Impact Factor: 12.78
69. P. Swami, **T. K. Gandhi**, B. K. Panigrahi, M. Bhatia, J. Santhosh, and S. Anand, “A comparative account of modelling seizure detection system using wavelet techniques,” *Int. J. Syst. Sci. Oper. Logist.*, vol. 4, no. 1, pp. 41–52, 2017, Impact Factor: 2.1
70. A. Kalia, **T. K. Gandhi**, G. Chatterjee, P. Swami, H. Dhillon, S. Bi, N. Chauhan, S. Das Gupta, P. Sharma, S. Sood, and others, “Assessing the impact of a program for late surgical intervention in early-blind children,” *Public Health*, vol. 146, pp. 15–23, 2017, Impact Factor: 1.74
71. T. Gupta, **T. K. Gandhi**, and B. K. Panigrahi, “Multi-sequential MR brain image classification for tumor detection,” *J. Intell. Fuzzy Syst.*, vol. 32, no. 5, pp. 3575–3583, 2017, Impact Factor: 1.4
72. P. Swami, **T. K. Gandhi**, B. K. Panigrahi, M. Tripathi, and S. Anand, “A novel robust diagnostic model to detect seizures in electroencephalography,” *Expert Syst. Appl.*, vol. 56, pp. 116–130, 2016, Impact Factor: 8.665
73. K. Tsourides, S. Shariat, H. Nejati, **T. K. Gandhi**, A. Cardinaux, C. T. Simons, N.-M. Cheung, V. Pavlovic, and P. Sinha, “Neural correlates of the food/non-food visual distinction,” *Biol. Psychol.*, vol. 115, pp. 35–42, 2016, Impact Factor: 3.94
74. **T. K. Gandhi**, A. Kalia, S. Ganesh, and P. Sinha, “Immediate susceptibility to visual illusions after sight onset,” *Curr. Biol.*, vol. 25, no. 9, pp. R358--R359, 2015, Impact Factor: 10.83
75. S. Ganesh, P. Arora, S. Sethi, **T. K. Gandhi**, A. Kalia, G. Chatterjee, and P. Sinha, “Results of late surgical intervention in children with early-onset bilateral cataracts,” *Br. J. Ophthalmol.*, vol. 98, no. 10, pp. 1424–1428, 2014, Impact Factor: 2.4
76. P. Sinha, M. M. Kjelgaard, **T. K. Gandhi**, K. Tsourides, A. L. Cardinaux, D. Pantazis, S. P. Diamond, and R. M. Held, “Autism as a disorder of prediction,” *PNAS*, vol. 111, no. 42, pp. 15220–15225, 2014, Impact Factor: 12.78
77. A. Kalia, L. A. Lesmes, M. Dorr, **T. K. Gandhi**, G. Chatterjee, S. Ganesh, P. J. Bex, and P. Sinha, “Development of pattern vision following early and extended blindness,” *PNAS*, vol. 111, no. 5, pp. 2035–2039, 2014, Impact Factor: 12.78
78. **T. K. Gandhi**, S. Ganesh, and P. Sinha, “Improvement in spatial imagery following sight onset late in childhood,” *Psychol. Sci.*, vol. 25, no. 3, pp. 693–701, 2014, Impact Factor: 4.43
79. P. Sinha, G. Chatterjee, **T. K.Gandhi**, and A. Kalia, “Restoring vision through ‘Project Prakash’: the opportunities for merging science and service,” *PLoS Biol.*, vol. 11, no. 12, p. e1001741, 2013, Impact Factor: 10.3
80. **T. K. Gandhi**, P. Bhowmik, A. Mohapatra, S. Das, S. Anand, and B. K. Panigrahi, “Epilepsy diagnosis using combined duffing oscillator and PNN Model,” *J. Bioinforma. Intell. Control*, vol. 1, no. 1, pp. 64–70, 2012.
81. **T. K. Gandhi**, N. Suresh, and P. Sinha, “EEG responses to facial contrast-chimeras,” *J. Integr. Neurosci.*, vol. 11, no. 02, pp. 201–211, 2012, Impact Factor: 2.12
82. **T. K.. Gandhi**, B. K. Panigrahi, J. Santhosh, and S. Anand, “Contribution of brain waves for visual differences in animate and inanimate objects in human brain,” *J. Comput. Theor. Nanosci.*, vol. 9, no. 2, pp. 233–242, 2012, Impact Factor: 2.22
83. **T. K. Gandhi**, P. Chakraborty, G. G. Roy, and B. K. Panigrahi, “Discrete harmony search based expert model for epileptic seizure detection in electroencephalography,” *Expert Syst. Appl.*, vol. 39, no. 4, pp. 4055–4062, 2012, Impact Factor: 8.665
84. R. Periyasamy, **T. K. Gandhi**, S. R. Das, A. C. Ammini, and S. Anand, “A Screening Computational Tool for Detection of Diabetic Neuropathy and Non-Neuropathy in Type-2 Diabetes Subjects,” *J. Med. Imaging Heal. Informatics*, vol. 2, no. 3, pp. 222–229, 2012, Impact Factor: 0.643
85. **T. K. Gandhi**, A. Khurana, J. Santhosh, and S. Anand, “Configurational imagery experience in sighted and visually impaired children,” *J. Indian Acad. Appl. Psychol.*, vol. 37, pp. 128–133, 2011.
86. R. Held, Y. Ostrovsky, B. de Gelder, **T. K. Gandhi**, S. Ganesh, U. Mathur, and P. Sinha, “The newly sighted fail to match seen with felt,” *Nat. Neurosci.*, vol. 14, no. 5, pp. 551–553, 2011, Impact Factor: 24.97
87. **T. K.. Gandhi**, B. Panigrahi, and S. Anand, “A comparative study of wavelet families for EEG signal classification,” *Neurocomputing*, vol. 74, pp. 3051–3057, 2011, Impact Factor: 5.779
88. **T. K. Gandhi**, M. Trikha, J. Santhosh, and S. Anand, “Development of an expert multitask gadget controlled by voluntary eye movements,” *Expert Syst. Appl.*, vol. 37, no. 6, pp. 4204–4211, 2010, Impact Factor: 8.665
89. **T. K. Gandhi**, B. K. Panigrahi, M. Bhatia, and S. Anand, “Expert model for epileptic seizure detection in EEG Signature,” *Expert Syst. Appl.*, vol. 37, no. 4, pp. 3513–3520, 2010, Impact Factor: 8.665