

Dr. Otar Tavdishvili

LIST OF PUBLICATIONS

1. O. Tavdishvili, “ On the Character of the Reflection of Motionless Spatial Objects on the Retina in Binocular Vision”, Bulletin of AS of the GSSR, 85, 1, Tbilisi, 1977, pp.61-63; (Rus.)
2. O. Tavdishvili, “Some Problems of Visual Perception”, Trans. of IC AS of the GSSR, v.1, Tbilisi, 1977, pp.542-544.(Rus.)
3. O. Tavdishvili, “ Response and Directional Sensitivity of a Photoreceptor under mode Propagation”, In: Technical Cybernetics (Metsniereba Press),Tbilisi, 1986, pp.85-89.(Rus.)
4. O. Tavdishvili, “ Mode Theory and Binocular Vision”, In: Technical Cybernetics (Metsniereba Press), Tbilisi, 1986), pp.90-94. (Rus.)
5. O. Tavdishvili, “A Method of Segmentation of a Set of Measurements Based on Parzen Statistical Estimation”, Space Research Institute Press, Pr-1448, Moscow, 1988, pp.11.(Rus.)
6. O. Tavdishvili, “Computational Algorithm of Non-Parametric Segmentation”, TechInform, N.1055-95, 28.12.1995, Tbilisi, pp.8.(Rus.)
7. O. Tavdishvili and T.Sulaberidze, "On Non-parametric Image Segmentation for Multidimensional Feature Space Description", Trans. of the GTU, 1(409), pp.92-97(1996); (Rus.).
8. O. Tavdishvili and T. Sulaberidze, “A Non-Parametric method of Data Classification”. Proceedings of the 15th International Congress on Cybernetics. Namur (Belgium), August 24-28, 1998.
9. O. Tavdishvili, “One Model of the Perception of Binocular Spatial Objects”, Proceedings of the 11th International congress of Cybernetics and Systems. Brunel University, August 23-27 (UK). Eds: J. Rose and R. Vallee , Publishs WOSC, Paris,1999, p.55-57.
10. O. Tavdishvili, T. Sulaberidze, “Investigation of the Data Segmentation Procedure”, Proceedings of the 11th International congress of Cybernetics and Systems. Brunel University, August 23-27 (UK). Eds: J. Rose and R. Vallee , Publishs WOSC, Paris,1999, p.248-250.
11. O. Tavdishvili, T. Sulaberidze, “Statistical Approach to Image Segmentation”, Bulletin of GAS, v.160, N.2, Tbilisi, 1999, pp.204-206.
12. O. Tavdishvili, T. Sulaberidze, “Segmentation Method of 3D Segments Extraction On the Scene Image”, IMAGE PROCESSING III: Mathematical Methods, Algorithms and Applications, Edited by J. M. Blackledge and M. J. Turner, Horwood Publishing, Chichester, 2001, pp. 82-88.
13. Tavdishvili O., Sulaberidze T., “Scene Analysis Using Segmented Image”. Proceedings of The 7th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2003), 2003, Orlando, Florida, USA.
14. O. Tavdishvili, “Automatic Classification Algorithm for Observable Data set”, Proceedings of the Institute of Cybernetics, Institute of Cybernetics, Georgian AS, vol.3, #1-2, Tbilisi, 2004, pp. 136-141.
15. O. Tavdishvili, T. Sulaberidze, “Region-based Segmentation Algorithm and Its Performance”. Trans. of the GTU, #1(463), Tbilisi, 2007, pp. 24-28.
16. O.Verulava, J. Ramsden, R. Chogovadze, T. Todua, L.Verulava, O. Tavdishvili, The Beginnings of Artificial Intelligence, Textbook, Georgian Technical University, Tbilisi, 2007. (Geo.)

17. O. Tavdishvili, N. Archvadze, S. Tsagareli, "Assessment of Active Avoidance Behavior Formation Using Clustering", Science and Technologies, Tbilisi, 2009, #1-3, pp.40-49.(Geo)
18. O. Verulava, R. Khurodze, T. Todua, O. Tavdishvili, T. Zhvania, "Prediction of the Recognition Reliability using Clustering Results", International Journal on Computer Science and Engineering (IJCSE), Engg Journals Publications, Vol. 1(3), 2009, pp.196-198. <http://www.enggjournals.com/ijcse/>
19. O. Verulava, O.Tavdishvili, T. Todua and L. Verulava, "Elaboration of neural network learning method using pattern recognition", Journal of Biological Physics and Chemistry (JBPC), vol. 9, #2, Basel-Tbilisi, 2009, pp. 69-72.
20. O. Tavdishvili, N. Archvadze, S. Tsagareli, A. Stamateli and M. Gvajaia, "The Study of Rats' Active Avoidance Behavior by the Cluster Analysis", Life System Modeling and Intelligent Computing, Lecture Notes in Bioinformatics 6330, Li, K., Jia, L., Sun. X., Fei, M., Irwin, G. (Eds.), Proceedings of LSMS/ICSEE 2010, part III, Springer-Verlag, Berlin Heidelberg, 2010, pp. 180-188. https://doi.org/10.1007/978-3-642-15615-1_22.
21. O. Tavdishvili, S. Tsagareli, N. Archvadze, "An Assessment of the Rats' Behavior Through Learning Process by the Cluster Analysis", Proceedings of the International Conference Devoted to the 80th Anniversary of Academician I.V. Prangishvili "Information and Computer Technologies, Modeling, Control", Tbilisi, Georgia, November 1-4, 2010, pp. 233-237.
22. S. Tsagareli, N. Archvadze, O. Tavdishvili, "Quantitative Analysis of Formation of Active Avoidance Behavior in the Hippocampus Coagulated and Intact White Albino Rats", Journal of Behavioral and Brain Science, Vol. 2, #1, pp. 10-17, 2012. DOI: 10.4236/jbbs.2012.21002, <http://dx.doi.org/10.4236/jbbs.2012.21002>.
23. S. N. Tsagareli, N. G. Archvadze, O. Tavdishvili, "Analysis of Formation of Active Avoidance Behavior in Rats", Proceedings of the Georgian National Academy of Sciences, Biomedical series, Vol. 38, #5-6, pp. 341-348, Tbilisi, 2012.
24. O. Tavdishvili. Computer vision. Part I, Textbook, Publish House "Technical University", Tbilisi, pp. 418, 2013.
25. T. Sulaberidze, O. Tavdishvili, T. Todua, "An approach to the improvement of the result of segmentation". Georgian Engineering News, #2 (v.66), pp. 20-24, Tbilisi, 2013.
26. T. Sulaberidze, O. Tavdishvili, T. Todua, Z. Alimbarashvili, "Compact Description of the Segments on the Segmented Digital Image", Advances in Visual Computing, Lecture Notes in Computer Science, Volume 8887, pp. 250-257, Springer International Publishing Switzerland 2014. DOI: https://doi.org/10.1007/978-3-319-14249-4_24.
27. S. N. Tsagareli, N. G. Archvadze, O. Tavdishvili, M. Gvajaia, "The Prognosis of Delayed Reactions in Rats Using Markov Chains Method", Journal of Behavioral and Brain Science, Vol. 6, #1, pp. 19-27, 2016. https://file.scirp.org/pdf/JBBS_2016011514155075.
28. O. Verulava, M. Chkhaidze, O. Tavdishvili, Formation of the neural network for the process of learning, Georgian Engineering News, Tbilisi. #2 (v.82), pp. 73-79, 2017.
29. M. Chkhaidze, O. Tavdishvili, G. Chichua, S. Barnov, Artificial intelligence (Methodical guidelines for practical work), "IT-consulting scientific center" of GTU, Tbilisi, pp. 49, 2020.
30. O. Tavdishvili, Z. Alimbarashvili, "An Algorithm for Determining the location of a segment on a Segmented Image". Works of GTU, Publish House "Technical University", Tbilisi, #1 (519), pp. 98-105, 2021.
31. O. Tavdishvili. Computer vision. Part II, Textbook, Publish House "Technical University", Tbilisi, pp. 310, 2022.