

Zoltán Galáz



Selected publications

1. Klobusiakova, P., Mekyska, J., Brabenec, L., Galaz, Z., Zvoncak, V., et al. (2021). Articulatory network reorganization in Parkinson's disease as assessed by multimodal MRI and acoustic measures. *Parkinsonism & Related Disorders*, 84. 122–128. DOI: 10.1016/j.parkreldis.2021.02.012
2. Mucha, J., Mekyska, J., Galaz, Z., Faundez-Zanuy, M., Zvoncak, V., et al. (2020). Analysis of Various Fractional Order Derivatives Approaches in Assessment of Graphomotor Difficulties. *IEEE Access*, 8. 218234–218244. DOI: 10.1109/ACCESS.2020.3042591
3. Minsterova, A. S., Klobusiakova, P., Pies, A., Galaz, Z., Mekyska, et al. (2020). Patterns of diffusion kurtosis changes in Parkinson's disease subtypes. *Parkinsonism & Related Disorders*, 81. 96–102. DOI: 10.1016/j.parkreldis.2020.10.032
4. Galaz, Z., Mucha, J., Zvoncak, V., Mekyska, J., Smekal, Z., et al. (2020). Advanced Parametrization of Graphomotor Difficulties in School-Aged Children. *IEEE Access*, 8. 112883–112897. DOI: 10.1109/ACCESS.2020.3003214
5. Safarova, K., Mekyska, J., Zvoncak, V., Galaz, Z., Francova, et al. (2020). Psychometric Properties of Screening Questionnaires for Children With Handwriting Issues. *Frontiers in Psychology*, 10(2937). 1–12. DOI: 10.3389/fpsyg.2019.02937
6. Brabenec, L., Klobusiakova, P., Barton, M., Mekyska, J., Galaz, Z., et al. (2019). Non-invasive stimulation of the auditory feedback area for improved articulation in Parkinson's disease. *Parkinsonism & Related Disorders*, 61, 187–192. DOI: 10.1016/j.parkreldis.2018.10.011
7. Galaz, Z., Mekyska, J., Zvoncak, V., Mucha, J., Kiska, T., et al. (2019). Changes in phonation and their relations with progress of Parkinson's Disease. *Applied Sciences*, 8(12), 2339. DOI: 10.3390/app8122339
8. Mucha, J., Mekyska, J., Galaz, Z., Faundez-Zanuy, M., Lopez-de-Ipina, K., et al. (2018). Identification and monitoring of Parkinson's disease dysgraphia based on fractional-order derivatives of online handwriting. *Applied Sciences*, 8(12), 2566. DOI: 10.3390/app8122566
9. Gómez-Vilda, P., Galaz, Z., Mekyska, J., Vicente, J. M. F., Gómez-Rodellar, A., et al. (2019). Vowel Articulation Dynamic Stability Related to Parkinson's Disease Rating Features: Male Dataset. *International journal of neural systems*, 29(02). DOI: 10.1142/S0129065718500375
10. Harar, P., Galaz, Z., Alonso Hernández, J. B., Mekyska, J., Burget, R., et al. (2019). Towards robust voice pathology detection: Investigation of supervised deep learning, gradient boosting, and anomaly detection approaches across four databases. *Neural Computing and Applications*. DOI: 10.1007/s00521-018-3464-7
11. Mekyska, J., Galaz, Z., Kiska, T., Zvoncak, V., Mucha, J., et al. (2018). Quantitative Analysis of Relationship Between Hypokinetic Dysarthria and the Freezing of Gait in Parkinson's Disease. *Cognitive Computation*, 10(6), 1006–1018. DOI: 10.1007/s12559-018-9575-8
12. Brabenec, L., Mekyska, J., Galáz, Z., Klobušiakova, P., Košťálová, M., et al. (2018). Effects of non-invasive brain stimulation on motor speech disorder in Parkinson's disease. *Clinical Neurophysiology*, 129(4), e9. DOI: 10.1016/j.clinph.2018.01.030

13. Brabenec, L., Mekyska, J., Galaz, Z., and Rektorova, I. (2017). Speech disorders in Parkinson's disease: early diagnostics and effects of medication and brain stimulation. *Journal of Neural Transmission*, 124(3), 303–334. DOI: 10.1007/s00702-017-1676-0
14. Mekyska, J., Faundez-Zanuy, M., Mzourek, Z., Galaz, Z., Smekal, Z., et al. (2016). Identification and rating of developmental dysgraphia by handwriting analysis. *IEEE Transactions on Human-Machine Systems*, 47(2), 235–248. DOI: 10.1109/THMS.2016.2586605
15. Galaz, Z., Mekyska, J., Mzourek, Z., Smekal, Z., Rektorova, I., et al. (2016). Prosodic analysis of neutral, stress-modified and rhymed speech in patients with Parkinson's disease. *Computer methods and programs in biomedicine*, 127(1), 301–317. DOI: 10.1016/j.cmpb.2015.12.011