

Prof Danilo P. Mandic, PhD, MSc, MEng (Hons), FIEEE

PRIZES AND AWARDS

Editor's Choice Article, in recognition of the outstanding publication "Exploring convolutional neural network architectures for EEG feature extraction", by I. Rakhmatulin, M.-S. Dao, A. Nassibi, and D. P. Mandic, *Sensors*, vol. 24, no. 877, pp. 1–39, 2024. November 2024

Featured Article: H. J. Davies, G. Hammour, M. Zylinski, A. Nassibi, L. Stankovic, and D. P. Mandic, "The Deep-Match framework: R-peak detection in ear-ECG", *IEEE Transactions on Biomedical Engineering*, July 2024.

Editor's Choice Article, in recognition of the outstanding publication "An in-ear PPG-based blood glucose monitor: A proof-of-concept study", by G. Hammour and D. P. Mandic, *Sensors*, vol. 23, article 3319, pp. 1-14, 2023. July 2024

Winner: ICASSP 2024 "Auditory EEG Decoding Signal Processing Grand Challenge", M. Thornton, J. Auernheimer, C. Jehn, D. P. Mandic, and T. Reichenbach, *International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Seoul, South Korea, April 2024.

The Prize, in the 2023 IEEE Engineering in Medicine and Biology Society Prize Paper Award, for the article W. von Rosenberg, T. Chanwimalueang, V. Goverdovsky, D. Looney, D. Sharp, and D. P. Mandic, "Smart Helmet: Wearable Multichannel EEG and ECG", *IEEE Journal of Translational Engineering in Health and Medicine*, article id 700111, pp. 1-11, 2016.

Winner: ICASSP 2023 "Auditory EEG Decoding Signal Processing Grand Challenge", M. Thornton, D. P. Mandic, and T. Reichenbach, *International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Rhodes, Greece, June 2023.

Editor's Choice Article, in recognition of the outstanding publication "In-ear SpO₂: A Tool for Wearable, Unobtrusive Monitoring of Core Blood Oxygen Saturation", by H. J. Davies, I. Williams, N. S. Peters, and D. P. Mandic, *Sensors*, vol. 20, no. 17, 2020. March 2022

Outstanding Paper Award, at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021, for the article entitled "Nonstationary portfolios: Diversification in the spectral domain", by B. Scalzo Dees, A. Arroyo, L. Stankovic, A. G. Constantinides, and D. P. Mandic, *Proceedings of ICASSP'21*, pp. 5155–5159, 2021. There were 1734 articles presented at the conference and three outstanding papers were selected for this award 2021

Editors's choice article for October 2020: L. Stankovic, D. Mandic, M. Dakovic, B. Scalzo-Dees, M. Brajovic, E. Sejdic, and A. G. Constantinides, "Vertex-frequency graph signal processing: A comprehensive review", *Digital Signal Processing*, vol. 107, article 102802, 2020. 2020

Dennis Gabor Award, given by the International Neural Networks Society (INNS) for Outstanding Achievements in Neural Engineering, 2019

IEEE Signal Processing Magazine Best Paper Award, for A. Cichocki, D. P. Mandic, C. Caiafa, A.-H. Phan, G. Zhou, Q. Zhao and L. De Lathauwer, "Tensor decompositions for signal processing applications: From two-way to multiway component analysis", *IEEE Signal Processing Magazine*, vol. 32, no. 2, pp. 145–163, 2015. 2018

The paper T. Nakamura, V. Goverdovsky, M. Morrell, and D. P. Mandic, "Automatic sleep monitoring using ear-EEG", *IEEE Journal of Translational Engineering in Health and Medicine*, vol. 5, article id 2800108, pp. 1–8, 2017. appeared in the **IEEE EMBC Newsletter**, June, 2017

Commonwealth Scholarship Commission and Taylor & Francis highly commended article award, for M. U. Ahmed and D. P. Mandic, "A multivariate multiscale entropy algorithm with application to uterine EMG complexity analysis", *Entropy*, vol. 19, no. 1., pp. 1–18, 2017
<http://cscuk.dfid.gov.uk/2017/09/erasmus-j-petrus-cilliers-wins-2017-best-journal-article-prize/>

The paper **Smart helmet: Wearable multichannel ECG & EEG**, *IEEE Journal of Translational Engineering in Health and Medicine*, November 2016, was the top downloaded article through to September 2017, and also appeared as a highlight in the *IEEE EMBC Newsletter*, April 2017

Appeared in IEEE Spectrum Magazine with the ear-EEG system, July 2016

Honorary Member, the *Ararat International Academy of Sciences*, Paris, France 2015

Eric Laithwaite Best Research Poster Prize (with Dr V. Goverdovsky) for the *Multimodal*

Biosensing Electrode, at the Electrical and Electronics Eng. Dept., Imperial College London 2014

President's Award for Excellence in Research Supervision, Imperial College London 2014

Shortlisted for the Annual Brain Computer Interface Research Award, among 169 entries 2013

Appeared in MIT Technology Review, article "Device could spot seizures by reading brain-waves through the ear", 2013

Selected for the IEEE Life Science Portal with the position paper on Ear-EEG 2012

Eric Laithwaite Best Research Poster Prize (with Dr D. Looney) for the *Ear-EEG concept*, at the Electrical and Electronics Engineering Department, Imperial College London 2012

Shortlisted for the Annual Brain Computer Interface Research Award, among 68 entries 2012

Certificate of Appreciation in "*Recognition of service as Associate Editor of IEEE Transactions on Signal Processing*", presented by the IEEE Signal Processing Society 2010

Best Student Paper Award, International Neural Network Society for L. Li *et al.*, "Modelling of Brain Consciousness Based on Collaborative Adaptive Filters", in *ISNN'10* 2010

Diploma of Appreciation, for "*Contributions and service to the IEEE Transactions on Neural Networks*", presented by the IEEE Computational Intelligence Society 2009

Letter of Appreciation Award, for "*Special recognition of outstanding research achievements and contribution to increased public recognition of RIKEN*", RIKEN, Saitama, Japan 2009

Best Paper Award for T. Rutkowski, T. Tanaka, A. Cichocki, D. Erickson, and D. P. Mandic, "Interactive Component Extraction for Affective Brain Machine Interfaces", in *Proc. ICIC'09* 2009

Featured Article, W. Liu, D. Mandic, and A. Cichocki, "Blind Source Extraction Based on Linear Predictor", *IET Signal Processing*, vol. 1, no. 1, pp. 29–34, 2007 2007

Best Poster Award for M. Golz, D. Sommer, and D. P. Mandic, "Establishing Gold Standard for Microsleep Detection in Car Drivers", in *Proc. of Monitoring Sleep and Sleepiness (MSSP)* 2006

Eryl Cadwallader Davies Prize for Su Lee Goh for the Best PhD Thesis at the EEE Department in 2006, Imperial College (supervised By D. Mandic) 2006

Best Student Paper Award for S. L. Goh *et al.*, "Complex Valued Estimation of Wind Profile and Wind Power", in *Proc. of IEEE MELECON-04* 2004

Best Student Paper Award, for K. Powels *et al.*, "Towards Mode Detection", in *RASC* 2002

Lord Hirst Award for postgraduate research, managed by the IEE 1997-1999

British Chevening Scholarship for a visiting academic position in the UK 1996-1997

Nikola Tesla Medal for inventory work in "Handy Braille" and "PC Brailier" 1995