

## Brief CV

Petia Georgieva is Professor with habilitation (DSc) of Machine Learning in the Department of Electronics Telecommunications and Informatics (DETI) at the University of Aveiro, Portugal and Senior Researcher in the Institute of Electronics Engineering and Telematics of Aveiro (IEETA), Portugal. Since 2019 she is also a collaborator member of the Institute of Telecommunications, polo Aveiro.

Previously she had academic positions with the University of Porto (2001-2003, Portugal) and the Bulgarian Academy of Sciences, (Bulgaria, 1996-2001). She has held research visiting positions with the Rowan University (USA, 2016), Carnegie Mellon University (2012, 2019, USA), University of Lancaster (2011, UK), University of Arkansas at Little Rock (USA, 2010).

Her research interests are in the area of machine learning and deep learning algorithms, data mining with strong application focus on brain computer interface, medical imaging, robotics, optical and wireless communications.

P. Georgieva holds Master and PhD degrees in Control System Engineering from Technical University of Sofia (TUS) and PhD degree in Computer Science from Faculty of Engineering of University of Porto (FEUP), Portugal in 2003.

P. Georgieva authored over 150 articles in international journals and peer-reviewed proceedings. She supervised 13 PhD students and more than 60 MSc students. Her research work was awarded with Best poster at the 3rd Statistics of Health Decision Making meeting, Portugal (2021) and Best paper at the 10th IEEE Int Conf on Intelligent Systems, Bulgaria (2020).

Dr. Georgieva is a Senior member of IEEE (2010) and a Senior Member of the International Neural Network Society (INNS, 2007). She was the head of Signal Processing Lab in the research centre IEETA (2009-2013); member of the Executive Committee of the European Neural Network Society (2014-2016); member of the IEEE Working Group on ICT (2016-2018); Member of Council of Contributors, Citizens for Bulgaria (C4BG). Since 2010 she has been an EU expert and evaluator for several research calls and running projects from FP7, H2020, Horizon Europe programs of the European Commission.

Dr. Georgieva is a Member of the Editorial Board of Frontiers in Human Neuroscience Journal and an Invited Guest Editor of Journal Electronics for the Special Issue on Neural Networks and Deep Learning in Computer Vision (2023). She has also been serving the scientific community as a member of the Programme/ Organising Committee of international conferences and symposia, including Program Chair of the 10th Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA 2022) ; Program Chair of the European Conference on Modelling and Simulation (ECMS, 2015), International Liaison Chair of the INNS Big Data Conferences (2016, Greece and 2015, San Francisco).

She has given a number of invited talks - the plenary talks at the EPIA Conference on Artificial Intelligence (Faial, Portugal, 2023); the plenary talk at the Int Conf Automatics, Robotics and Artificial Intelligence (ICARAI, TUS, Bulgaria, 2023); the keynote talk at the 9th EAI Int Conf on Smart Objects and Technologies for Social Good (GOODTECHS, Leiria, Portugal, 2023), the keynote speech at the 9th Balkan Conference in Informatics (Sofia, Bulgaria, 2019); the keynote speech at the 10<sup>th</sup> Int Conf on Soft Computing and Pattern Recognition (Porto, Portugal, 2018).

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