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Her research interests include machine learning (ML), deep learning (DL), data mining, signal processing and control. Her work involves merging AI (ML/DL) with real-world applications with a focus on medical imaging, optical and wireless communications, robotics, smart homes, brain computer interfaces.

Dr. Georgieva is Associate Editor of Pattern Recognition, Elsevier and Action Editor of Neural Networks, Elsevier.

She is a Senior member of IEEE and a Senior Member of International Neural Network Society (INNS), Member of the Board of Governors of INNS (elected position for 3 years 2024-2026). She was the head of Signal Processing Lab in IEETA (2009-2013), a member of the Executive Committee of the European Neural Network Society (2014-2016), a member of the IEEE Working Group on ICT (2016-2018). Since 2010 she has been an EU expert and evaluator for several research calls and running projects from FP7, H2020, and Horizon Europe programs of the European Commission.

Dr. Georgieva 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 (2015, Bulgaria), Vice-chair of the International Joint Conferences on Neural Networks (2019, Hungary), 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 talk at the EPIA Conference on Artificial Intelligence (Faial, Portugal, 2023); the plenary talk at the IEEE Workshop on Communication Networks and Power Systems (WCNPS'23, Brazil); the plenary talk at the Int Conf Automatics, Robotics and Artificial Intelligence (ICARAI, 2023); the keynote talk at the 9th EAI Int Conf on Smart Objects and Technologies for Social Good (GOODTECHS, 2023), the keynote speech at the 9th Balkan Conference in Informatics (Sofia, Bulgaria, 2019); the keynote speech at the 10th Int Conf on Soft Computing and Pattern Recognition (Porto, Portugal, 2018).

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