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Prof. Mladenov's research interests are in the field of electrical engineering, artificial intelligence, power systems, electronics, neural networks. He has received many international research fellowships. He has more than 350 scientific papers in professional journals and conferences. He is a co-author of twenty books and manuals for students. He had received many research grants and also with his team he participated and participate in many national and international projects - H2020, FP7, Royal Society, DFG, NWO, Erasmus+, and others.

As a member of several editorial boards, Prof. Mladenov serves as an editor in chief, associate editor, and reviewer for a number of professional journals and conferences. He is a Senior Member of IEEE, a member of the IEEE Circuit and Systems Technical Committee (TC) on Cellular Nonlinear Networks and Memristor Array Computing (CNN-MAC), and an Educational Activities Officer of the Bulgarian IEEE section. He is also a Senior Member of the International Neural Networks Society (INNS), Member of the International Council of Large Electric Systems, (SIGRE), member of the Steering Committee of the International Symposium on Theoretical Electrical Engineering (ISTET), member of the Management Boards of the Scientific and Technical Union of the Power Engineers, and the Union of Automation and Informatics in Bulgaria.