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Her research interests include nonlinear difference equations, discrete-time dynamical systems, bifurcation theory, and qualitative analysis of nonlinear models. She has published numerous research papers on difference equations and discrete dynamical systems—in collaboration with colleagues from the University of Sarajevo and abroad—in peer-reviewed international journals on applied mathematics and discrete dynamical systems. Her work centers on the qualitative behavior of nonlinear difference equations and the development of rigorously constructed discrete-time models, advancing the understanding of nonlinear phenomena in both theoretical and applied mathematics.

She is actively engaged in international conferences and workshops on difference equations and discrete dynamical systems. In 2021, she served as Chair of the Organizing Committee for the International Conference on Difference Equations and Applications (ICDEA), held online in Sarajevo. She has been a member of the International Society of Difference Equations since 2004.