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He was coordinator for 10 national projects and 12 international projects in the scope of EUREKA, bilateral, H2020, FP7, COSME and Interreg programs. He is the President of Serbian Structural Integrity and Life Society and Editor-in-chief of Structural Integrity and Life Journal (Scopus, eSCI), the Vice-president of European Structural Integrity Society (ESIS), member of editor boards and reviewer of a number of prominent world journals in Fracture Mechanics, and the Chairman of European Conference on Fracture (ECF22), Belgrade, 2018. He has been the guest editor of special issues of Engineering Failure Analysis, Engineering Fracture Mechanics, Theoretical and Applied Fracture Mechanics and International Journal of Fatigue.

Prof. Sedmak is longstanding member of prominent societies, such as ESIS, AWS and ASME, also honorary professor at Brasov University, Romania, since 2016 and foreign member of Hungarian Academy of Engineering Sciences since 2017, also member of Serbian Academy of Engineering Sciences since 2012. He delivered many invited lectures and seminars worldwide, (Duke University, Durham, Drexel University, Filadelfija, USA, Technical Faculty University of Maribor, Technical University in Tripoli, Libya, Brasov University, Romania, Miskolc University Hungary). He was one of the founders of Department for Welding and Welded Structures at the Faculty of Mechanical Engineering, University of Belgrade, Serbia, where he teaches master and doctoral courses, including foreign students.