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The scientific interests of Professor Rudeanu begin with Boolean algebras but extend broadly into many areas of contemporary mathematics ranging from Boolean algebra, graph theory, and universal algebra. He is one of the world's foremost researchers in everything Boolean; his work has inspired mathematicians, computer scientists, and engineers and has achieved seminal value. His books "Boolean Functions and Equations" and "Lattice Functions and Equations" are recognized as fundamental references by every mathematician who works in these areas. Together with Peter L. Hammer, Sergiu Rudeanu is the co-inventor of pseudo-Boolean programming, an area of discrete optimization that has numerous practical applications [1].

[1] Fragment taken from the Introduction to Volume 12, Numbers 3-4 (2006), "Special Issue dedicated to Sergiu Rudeanu on the occasion of his 70th birthday" of Journal of Multiple-Valued Logic and Soft Computing.