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Sommario/riassunto This book covers diverse areas of fuzzy logic, soft computing, and AI approaches such as uncertain computation, decision-making under imperfect information, deep learning, and others. The topics of the papers include theory and application of soft computing, decision theory with imperfect information, neuro-fuzzy technology, intelligent control, machine learning, evolutionary computing, fuzzy logic, and soft computing in engineering, industry, social sciences, business, economics, earth sciences, material sciences, and others. This book presents the proceedings of the 16th International Conference on Applications of Fuzzy Systems, Soft Computing, and Artificial Intelligence Tools, ICAFS-2023, held in Antalya, Turkey, on September

14–15, 2023. This will be a useful guide for academics, practitioners, and graduates in fields of fuzzy systems and soft computing. It would allow for attracting of interest in development and applying of these paradigms in various real fields.