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Nota di contenuto	Advances in Theory of Fuzzy Sets -- Non Contradiction, Excluded Middle, and Fuzzy Sets -- Approximate Parallelism between Fuzzy Objects: Some Definitions -- Barycentric Algebras and Gene Expression -- Fuzzy Quantification Using Restriction Levels -- Least Squares Method for L-R Fuzzy Variables -- Modeling Interpretive Steps in Fuzzy Logic Computations -- Nestings of T-Conorms -- On Coherence and

Consistence in Fuzzy Answer Set Semantics for Residuated Logic
 Programs -- Rough Set Approach to Rule Induction from Imprecise
 Decision Tables -- Uninorm Based Fuzzy Network for Tree Data
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 Conditional Expectation of IF-Observables -- A Survey on the Algebras
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 Networks by a Probabilistic Approach -- Temporal Features in
 Biological Warfare.

Sommario/riassunto

The 8th International Workshop on Fuzzy Logic and Applications (WILF 2009) held in Palermo (Italy), June 9-12, 2009, covered topics related to theoretical and experimental areas of fuzzy sets and systems with emphasis on different applications. This event represents the continuation of an established tradition of biannual interdisciplinary meetings. The previous editions of WILF were held, with an increasing number of participants, in Naples (1995), Bari (1997), Genoa (1999), Milan (2001), Naples (2003), Crema (2005) and Camogli (2007). Each event focused on distinct main thematic areas of fuzzy logic and related applications. WILF 2009 aimed to highlight connections and synergies of fuzzy sets theory with nonconventional computing (e.g., neural networks, evolutionary computation, support vector machines, molecular computing, quantum computing) and cognitive science,

in order to reach a better understanding of both natural and artificial complex systems as well as computing systems, inspired by nature, which are able to solve complex problems. From this perspective one of the main goals of the WILF workshops is to bring together researchers and developers from both academia and high-tech companies. WILF 2009 received more than 60 paper submissions from all over the world, including Algeria, Belgium, Benin, Brazil, Canada, China, France, Greece, India, Iran, Italy, Japan, Poland, Romania, Slovakia, Spain and the USA. A rigorous peer-review selection process was applied to ultimately select nearly 40 high-quality manuscripts to be published in this volume. Moreover, the volume also includes presentations from three keynote speakers Etienne Kerre (Ghent University, Belgium), Sankar K. Pal (ISI, India) and Enric Trillas (ECSC, Spain).
