

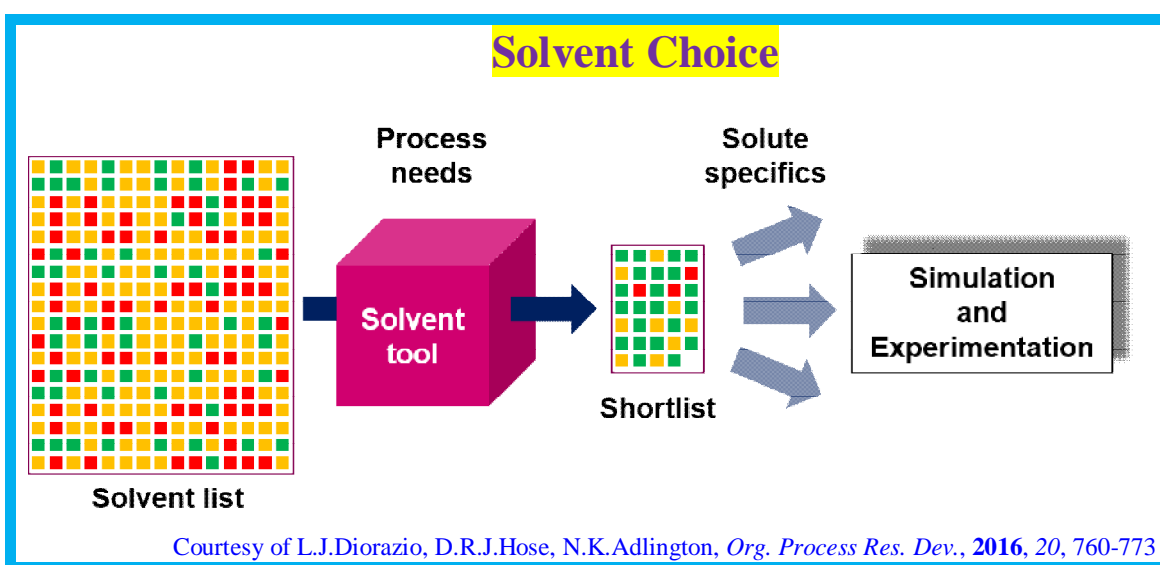


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Knowledge Inn (in nature)




Misuse of true knowledge or use of false knowledge is expensive


- Without a deep understanding of the valid knowledge base, limitations, context and task on hand,
 - ▶ planning strategic blueprints can
 - ▶ create a feeling of jumping off a cliff.
- Even implementation with true-to-their-salt team
 - ▶ outcome mostly is discouraging if not catastrophic.
- + The up-to-date knowledge of state-of-art of critical advances and meticulous execution of experiments with optimized designs are
 - ▶ sure to reach non-inferior, or even superior/ nearer to true goals in that space-time frame.

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Pharmaceutical Roundtable

Solvent selection tool

Principles and guidance

Louis Diorazio, AstraZeneca, June 2018

<i>Knowledge Inn</i>			
Knowledge	in neural	networks	K i nn
	Brain or Mathematical Sci		
Knowledge	in Nature	networks	K i nn
Knowledge	in Nature	(of) Nature	K i nn
Inn	In	nature	inn
	Is		
Ki (Key)	(to)	Nature of nature	Ki (to) nn

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Nano-materials, Electronics Biology



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Zadeh's Fuzzy sets and fuzzy logic

A revolutionary, controversial computational paradigm

Mathematics, Statistics and Artificial/Abstract Intelligence



Born on Feb 4, 1921, at Baku, Azerbaijan SSR
Died on September 6, 2017 at Berkeley, California,

Dr Lotfi A. Zadeh introduced a new paradigm, ‘fuzzy set’ in 1965 and nurtured in the next four decades. The number of **citations** of his seminal paper (L Zadeh, Fuzzy Sets Information and Control 8, 338-353(1965)) is **97,521** from research gate (accessed on 13-09-18). According to Google Scholar, total number of citations of all his papers exceeds **200,000**.

Citations : 2, 07, 861
h-index : 108
Professor, EECS, UC Berkeley US

Zadeh's insight (mind)	Fuzzy logic is not fuzzy
<ul style="list-style-type: none"> Let knowledge be extracted from more to more and human life be enriched The key to this ivory tower is to train next generation to be at home with sure-to-succeed tools for the processes probed till date through recent past Numerous real-life applications including video cameras, blood pressure meters, wastewater treatment plants, and the subway system in Sendai, Japan, also depend on fuzzy computations 	<ul style="list-style-type: none"> Fuzzy logic is a precise logic of imprecision, approximate reasoning, but resulting in high precision It is another platform attempting formalization/automating/adapting how humans <ul style="list-style-type: none"> see/hear/feel-the-touch of themselves/surroundings, arrive at decisions though reasoning even from imprecise/ uncertain/incomplete/ conflicting/ partially true (or possible) data/ information perform a wide variety of physical and mental (voluntary/involuntary) functions without decimal number measurements and any numerical computations <p>[Deterministic; Pessimistic; Probabilistic; Fuzzy; Possibility, Usualistic, Granual]</p>

citations of Zadeh's typical high impact publications

Publication	#citations	Year
Decision-making in a fuzzy environment RE Bellman, LA Zadeh Management science 17 (4), B-141-B-164	9050	1970
The concept of a linguistic variable and its application to approximate reasoning—II LA Zadeh	3618	1975

Information sciences 8 (4), 301-357		
Fuzzy logic		
LA Zadeh	3919	1988
Computer 21 (4), 83-93		
Fuzzy random variables		
ML Puri, DA Ralescu, L Zadeh	2079	1993
Readings in Fuzzy Sets for Intelligent Systems, 265-271		
Fuzzy logic- computing with words		
LA Zadeh	4963	1996
IEEE transactions on fuzzy systems 4 (2), 103-111		
Toward a theory of fuzzy information granulation and its centrality in human reasoning and fuzzy logic		
LA Zadeh	2652	1997
Fuzzy sets and systems 90 (2), 111-127		