

3

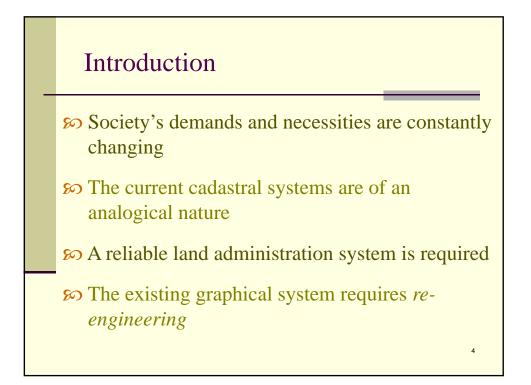
Solution

SoGAs Overview

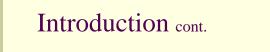
Solution – Cadastral Analogy

Socase Studies

Summary & Future Work



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- So Transition to analytical cadastre has given rise to much research
- So The common practice is the Least Square (LS) method
- So The current techniques are mainly analytical and straightforward

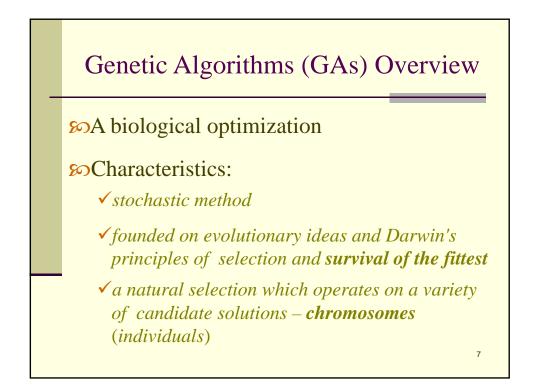
Solution

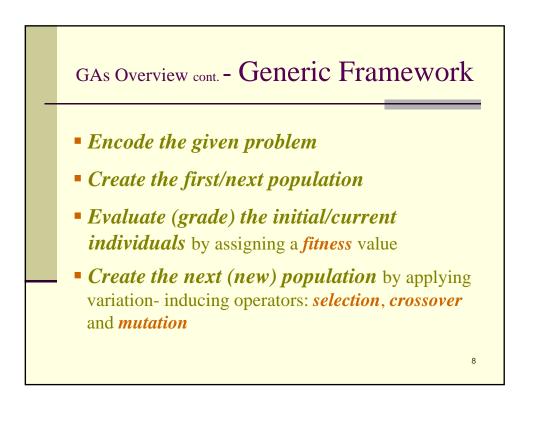
SoGAs Overview

Solution – Cadastral Analogy

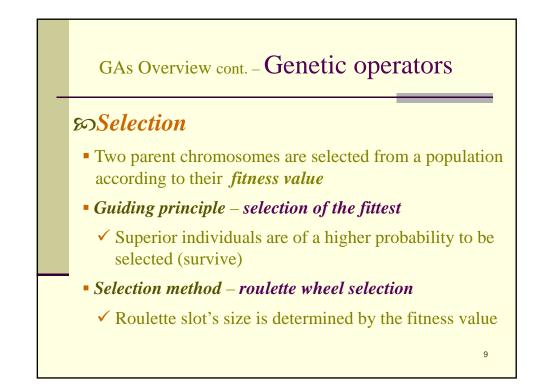
Socase Studies

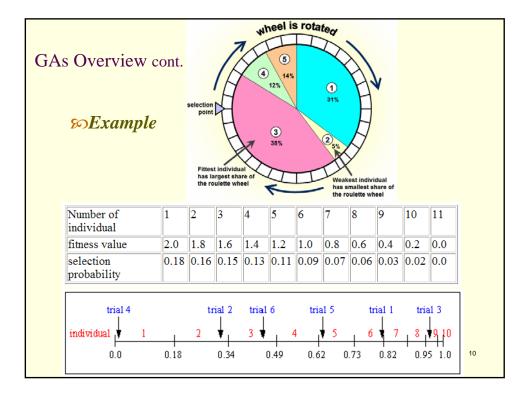
Summary & Future Work

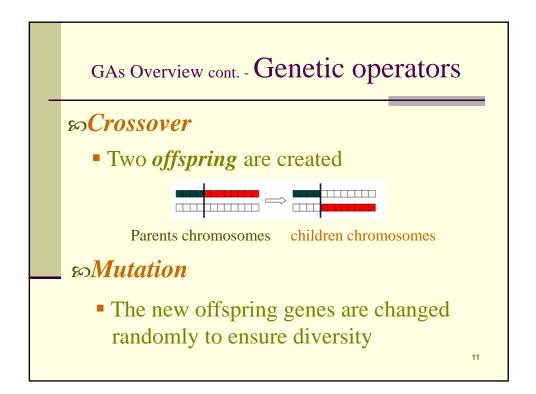




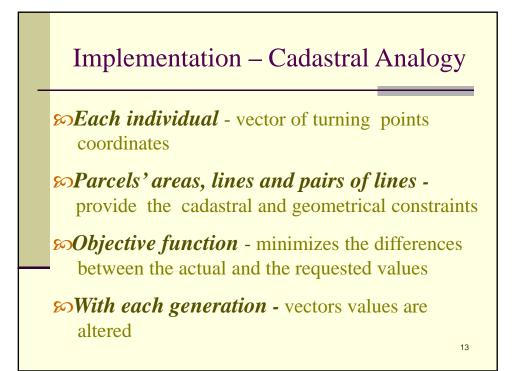
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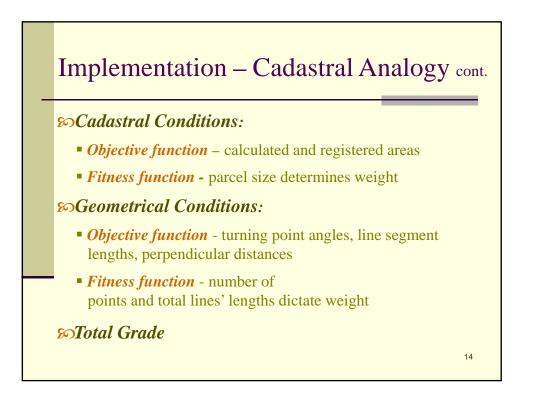


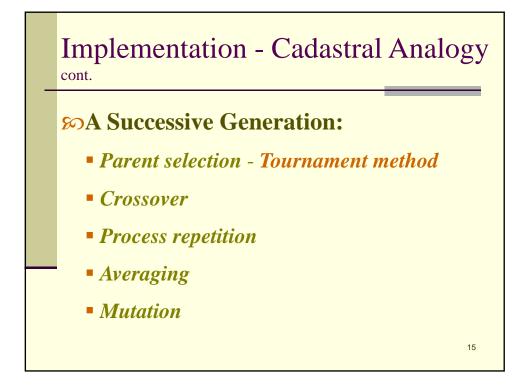


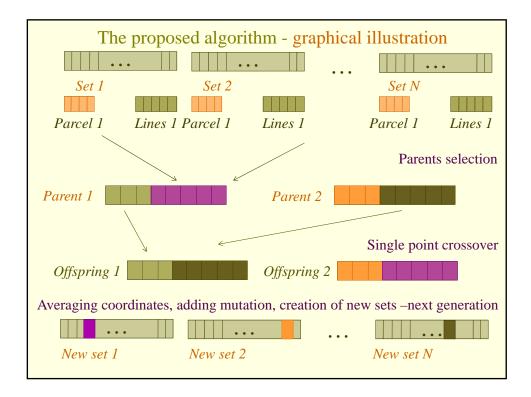




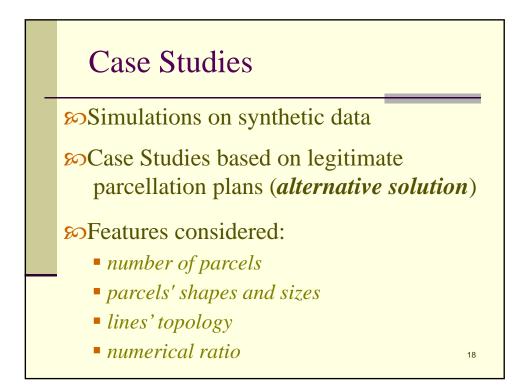


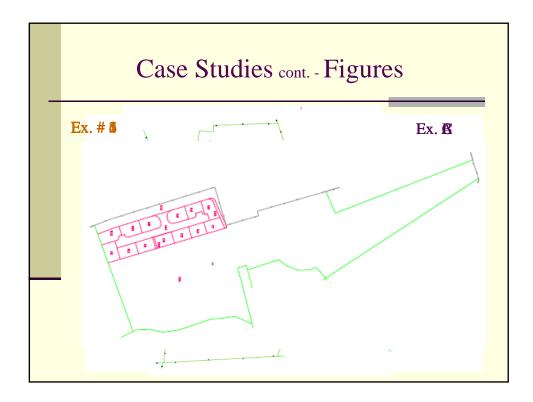






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Case Studies cont.								
80 Parameters								
No. of Constra ints	<i>Ex. #1</i>	<i>Ex. #2</i>	<i>Ex. #3</i>	<i>Ex. #4</i>	<i>Ex.</i> #5	<i>Ex. #6</i>		
Parcels	17	18	20	25	26	111		
Straight Lines	8	2	7	5	3	9		
Pairs of Lines	3	1	11	1	5	2		
						20		

	Case Studies cont. So Case Studies' Fitness Values									
so Case S										
Fitness	Example A		Example B			Example C				
Values	LS	Init.	GAs	LS	Init.	GAs	LS	Init.	GAs	
Total	88	67	95	44	44	77	90	67	94	
Parcels	84	66	94	31	34	72	89	70	94	
Straight Lines	93	65	100	98	99	99	95	46	100	
Pairs of Lines	94	69	94	90	36	100	98	31	100	
									21	

	Case Studies cont. – Results Analyses								
_	Parameters	Example A		Example B		Example C			
	[m]	Initial	Final	Initial	Final	Initial	Final		
	$Mean_{\sigma_X}$	0.078	0.002	0.122	0.002	0.177	0.003		
	$Mean_{\sigma_{Y}}$	0.076	0.002	0.122	0.002	0.177	0.003		
	Max_{σ_X}	0.288	0.010	0.305	0.009	0.300	0.014		
	$Max_{\sigma_{Y}}$	0.281	0.010	0.286	0.008	0.315	0.008		
	$Max_{\Delta X}$	0.921	0.038	0.892	0.035	0.936	0.041		
	$Max_{\Delta Y}$	0.941	0.043	0.795	0.042	1.075	0.046		
	$Min_{\Delta X}$	-0.863	-0.054	-0.803	-0.036	-1.042	-0.045		
	$Min_{\Delta Y}$	-0.837	-0.049	-0.874	-0.029	-1.123	-0.044		

