

Contents

Welcome from the CS Chair	3
Symposium program.....	4
Meet the speakers.....	5
The Cornell environment	
The Cornell CS ambience	6
Faculty of Computing and Information Science.....	8
Information Science Program	9
College of Engineering	10
College of Arts & Sciences.....	11
Selected articles	
Mission-critical distributed systems	12
Language-based security	14
A grand challenge in computer networking.....	16
Data mining, today and tomorrow	18
Grid computing and Web services	20
The science of networks	22
Search engines that learn from experience	24
Sentiment analysis	26
Beauty is skin deep	28
Structural fingerprints of molecular evolution.....	30
The impact of computing on medicine	32
Reasoning about knowledge	34
Automated reasoning: The impossible made indispensable	36
Computational complexity.....	38
Sidelights	
The TRUST consortium.....	13
Programming methodology and program correctness.....	15
Computing in the arts.....	17
The marriage of structured and unstructured data	19
The Cornell Theory Center	21
Algorithms at Cornell	23
The father of information retrieval	25
CURIE comes to CS	27
Program of Computer Graphics.....	29
Bridging the Rift	31
The Game Design Initiative	33
Forty years of numerical analysis and scientific computing.....	35
The scholarly publishing revolution	37
Computational complexity and the ice cube.....	39
About the department	
Computer Science chairs	40
Computer Science faculty	40
Degrees granted	41
Selected faculty awards	42
Grants to young faculty	43
Books by the faculty	44
Selected invited addresses	46
The 40th anniversary committee.....	48