

# Table of Contents

Multiple Access Communications Using Combinatorial Designs . . . . .	1
<i>Charles J. Colbourn</i>	
Exact and Approximate Testing/Correcting of Algebraic Functions: A Survey . . . . .	30
<i>Marcos Kiwi, Frédéric Magniez, Miklos Santha</i>	
The Regularity Lemma and Its Applications in Graph Theory . . . . .	84
<i>János Komlós, Ali Shokoufandeh, Miklós Simonovits, Endre Szemerédi</i>	
Modeling Data and Objects: An Algebraic View Point . . . . .	113
<i>Kazem Lellahi</i>	
Graph-Theoretical Methods in Computer Vision . . . . .	148
<i>Ali Shokoufandeh, Sven Dickinson</i>	
An Introduction to Low-Density Parity-Check Codes . . . . .	175
<i>Amin Shokrollahi</i>	
Primal-Dual Schema Based Approximation Algorithms . . . . .	198
<i>Vijay V. Vazirani</i>	
Fourier Transforms and Quantum Computation . . . . .	208
<i>Umesh Vazirani</i>	
<b>Author Index</b> . . . . .	221