

Contents

Foreword	vii
Preface	ix
Modulation Coding for a Two-Dimensional Optical Storage Channel W. M. J. COENE and A. H. J. IMMINK	1
Characterization of Heat-Assisted Magnetic Recording Channels R. RADHAKRISHNAN, B. VASIĆ, F. ERDEN, and C. HE	23
Cramér-Rao Bound for Timing Recovery on Channels with Inter-symbol Interference A. R. NAYAK, J. R. BARRY, and S. W. McLAUGHLIN	41
Macro-Molecular Data Storage With Petabyte/cm ³ Density, Highly Parallel Read/Write Operations, and Genuine 3D Storage Capability M. MANSURIPUR and P. KHULBE	63
Can We Explain the Faithful Communication of Genetic Information? G. BATTAIL	79
Data Storage and Processing in Cells: An Information Theoretic Approach O. MILENKOVIC	105
Ghostbusting: Coding for Optical Communications N. KASHYAP and P. H. SIEGEL	147
List of Working Group Presentations	163
List of Workshop Presentations	165