

Contents

Foreword	vii
Preface	ix
 I Trees and Analysis of Algorithms	 1
1 A. Antos, L. Devroye <i>Rawa trees</i>	3
2 P. Chassaing, J.F. Marckert, M. Yor <i>The height and width of simple trees</i>	17
3 M. Dekking, S. De Graaf, L.E. Mester <i>On the node structure of binary search trees</i>	31
4 M. Drmota <i>The saturation level in binary search tree</i>	41
5 J. A. Fill, S. Janson <i>Smoothness and decay properties of the limiting quicksort density function</i>	53
6 B. Gittenberger <i>The number of descendants in simply generated random trees</i> ..	65
7 P. Jacquet, W. Szpankowski, I. Apostol <i>An universal predictor based on pattern matching, preliminary results</i>	75
 II Combinatorics and Random Generation	 87
8 M. Bousquet, C. Chauve, G. Labelle, P. Leroux <i>A bijective proof of the arborescent form of the multivariable Lagrange's inversion formula</i>	89

9	M. Bousquet-Mélou, G. Schaeffer <i>Counting paths on the slit plane</i>	101
10	A. Denise, O. Rocques, M. Termier <i>Random generation of words of context-free languages according to the frequencies of letters</i>	113
11	D. Merlini, R. Sprugnoli, M. C. Verri <i>An algebra for generating trees</i>	127
12	E. Pergola, R. Pinzani, S. Rinaldi <i>A set of well-defined operations on succession rules</i>	141
III Algorithms and Optimization		153
13	J. Bérard, A. Bienvenüe <i>Convergence of a genetic algorithm with finite population</i>	155
14	M. Dror, D. Fortin, C. Roucairol <i>Complexity issues for a redistribution problem</i>	165
15	C. Mazza, D. Piau <i>On the rate of escape of a mutation-selection algorithm</i>	177
16	Y. Metivier, N. Saheb, A. Zemmari <i>Randomized rendezvous</i>	183
IV Performance Evaluation		195
17	M. Ben Mamoun, N. Pekergin <i>Computing closed-form stochastic bounds on the stationary distribution of Markov chains</i>	197
18	T. Dayar <i>Effects of reordering and lumping in the analysis of discrete-time SANs</i>	209
19	F. Delcoigne, A. De La Fortelle <i>Large deviations for polling systems</i>	221
20	G. Fayolle, J.M. Lasgouttes <i>A nonlinear integral operator encountered in the bandwidth sharing of a star-shaped network</i>	231

V	Other Topics	243
21	J. Geiger <i>A new proof of Yaglom's exponential limit law</i>	245
22	Q. Liu <i>The branching measure, Hausdorff and packing measures on the Galton-Watson tree</i>	251
23	E. Löcherbach <i>Likelihood ratio processes and asymptotic statistics for systems of interacting diffusions with branching and immigration</i>	265
24	G. Louchard, O. Rocques <i>Probabilistic Analysis of a Schröder Walk Generation Algorithm</i>	275
25	V. Malyshev <i>Gibbs families</i>	295
26	R. Pemantle <i>Generating functions with high-order poles are nearly polynomial</i>	305
27	J. H. Spencer <i>Ultrahigh Moments for a Brownian Excursion</i>	323
28	B. Ycart, M.C. Rousset <i>A zero-one law for random sentences in description logics</i>	329