# Table of Contents

**EATCS Matters**

Letter from the President .................................................. 3
Letter from the Editor ......................................................... 6

**EATCS News**

The Japanese Chapter, by K. Makino ...................................... 11
News from India, by M. Mukund .............................................. 15
News from Latin America, by A. Viola ...................................... 22
News from New Zealand, by C.S. Calude ................................. 25

**The EATCS Columns**

The Algorithmics Column, by G. Woeginger
  A bit of multimedia retrieval algorithmics, by R. Veltkamp .......... 29

The Complexity Column, by J. Torán
  Polynomial size log depth circuits: between $NC^1$ and $AC^1$, by
  M. Mahajan ................................................................. 42

The Concurrency Column, by L. Aceto
  Characteristic formulae: from automata to logic by L. Aceto and A. Ingolfsdottir .................................................. 57

The Distributed Computing Column, by M. Mavronicolas
  OPODIS 2006 report, by B. Englert ...................................... 76

The Formal Language Theory Column, by A. Salomaa
  Nine open problems on conjunctive and boolean grammars, by
  A. Okhotin ........................................................................ 96

The Formal Specification Column, by H. Ehrig
  Formal modeling and analysis of flexible processes in mobile
  ad-hoc networks, by J. Padberg, H. Ehrig and K. Hoffmann ........ 120

The Logics in Computer Science Column, by Y. Gurevich
  Zero-one laws: thesauri and parametric conditions by A. Blass and Y. Gurevich .................................................. 125

The Natural Computing Column, by G. Rozenberg
  Spiking neural P systems: a tutorial, by G. Păun ................. 145

The Programming Languages Column, by I. Mackie
Web services, mobile processes and types, by K. Honda,
N. Yoshida and M. Carbone ............................................. 160

TECHNICAL CONTRIBUTIONS

The Freudenthal problem and its ramifications (part II), by
A. Born, C. Hurkens, and G. Woeginger ............................... 189
On maximal prefix codes, by L. Staiger ................................ 205
Relabeling and the independence theorem in the double-pushout
approach to graph transformations, by H.J. Schneider ............... 208

THE PUZZLE CORNER, by L. Rosaz ..................................... 225

MISCELLANEOUS

Peter L. Hammer (1936–2006), by E. Boros, Y. Crama and
B. Simeone .......................................................................... 227
Speculations on biology, information and complexity, by
G.J. Chaitin ........................................................................ 231

REPORTS FROM CONFERENCES

CS&P 2006 ........................................................................... 241
NWPT 2006 ........................................................................ 243
DCM 2006 ........................................................................... 246
MeCBIC 2006 ....................................................................... 247
ICALP 2006 .......................................................................... 249

ABSTRACTS OF PHD THESES ............................................. 257

EATCS LEAFLET ................................................................. 265