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Rafael DE LA LLAVE, Linda R. PETZOLD, Jens LORENZ, (Editors). — **Dynamics of algorithms.** — The IMA volumes in mathematics and its applications, vol. 118. — Un vol. relié,  $16,5 \times 24,5$ , de IX, 136 p. — ISBN 0-387-98920-X. — Prix: DM 120.00. — Springer, New York, 2000.

The articles collected in this volume represent the contributions presented at the IMA Workshop on Dynamics of Algorithms which took place in November 1997. The workshop was an integral part of the 1997 to 1998 IMA Program on Emerging Applications of Dynamical Systems. The interaction between algorithms and dynamical systems is mutually beneficial since dynamical methods can be used to study algorithms which are applied repeatedly. Convergence and asymptotic rates are indeed dynamical properties. Likewise, the study of dynamical systems benefits enormously from having efficient algorithms to compute dynamical objects.

### *Equations aux différences finies, équations fonctionnelles*

Themistocles M. RASSIAS. — **Functional equations and inequalities.** — Mathematics and its applications, vol. 518. — Un vol. relié,  $16,5 \times 24,5$ , de XI, 336 p. — ISBN 0-7923-6484-8. — Prix: Dfl. 275.00. — Kluwer Academic Publishers, Dordrecht, 2000.

This volume provides an extensive study of some of the most important topics of current interest in functional equations and inequalities. Subjects dealt with include: a Pythagorean functional equation, a functional definition of trigonometric functions, the functional equation of the square root spiral, a conditional Cauchy functional equation, an iterative functional equation, the Hille-type functional equation, the polynomial-like iterative functional equations, a qualitative study of Lobachevsky's complex functional equations, functional inequalities in special classes of functions, replicativity and function spaces, normal distributions, some difference equations, finite sum decompositions of functions, the problem of expressibility in some extensions of free groups, Alexandrov problem and mappings which preserve distances, etc.

### *Approximations et développements en série*

George A. ANASTASSIOU, Sorin G. GAL. — **Approximation theory: moduli of continuity and global smoothness preservation.** — Un vol. relié,  $16 \times 24$ , de XI, 525 p. — ISBN 0-8176-4151-3. — Prix: SFr. 158.00. — Birkhäuser, Boston, 2000.

This monograph, in two parts, is an intensive and comprehensive study of the computational aspects of the moduli of smoothness and the Global Smoothness Preservation Property (GSPP). Key features include: Systematic and extensive study of the computation of moduli of continuity and GSPP, presented for the first time in the book literature; substantial motivation and examples for key results; extensive applications of moduli of smoothness and GSPP concepts to approximation theory, probability theory, numerical and functional analysis; GSPP methods to benefit engineers in computer-aided geometric design; bibliography and index.

### *Analyse de Fourier, analyse harmonique abstraite*

Tian-Xia HE. (Editor). — **Wavelet analysis and multiresolution methods.** — Proceedings of the conference held at the University of Illinois at Urbana-Champaign, Illinois. — Lecture notes in pure and applied mathematics, vol. 212. — Un vol. broché,  $17,5 \times 25,5$ , de VIII, 382 p. — ISBN 0-8247-0417-7. — Prix: US\$ 185.00. — Marcel Dekker, New York, 2000.

This volume contains a selection of papers presented at the Wavelet Analysis and Multiresolution Methods Session of the American Mathematical Society Meeting held recently at the University of Illinois at Urbana-Champaign. Offering self-contained papers that include an