

**ALGORITHMS OF INFORMATICS Vol. 3
SELECTED TOPICS**

Editor: A. Iványi

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First and second volumes of *Algorithms of Informatics* appeared in 2007. These volumes contained 12 + 11 chapters. Volume 3 contains further eight chapters. The base of this volume is the third volume of the electronic edition, which appeared in 2011 and contained 7 chapters.

Volume 3 consists of three parts. Part 7 (DISCRETE METHODS) contains 4 chapters. Chapter 24 (*Comparison-based Ranking*) is written by Antal Iványi (Eötvös Loránd University) and Shariefuddin Pirzada (University of Kashmir), Chapter 25 (*Complexity of Words*) by Zoltán Kása (Sapientia Hungarian University of Transylvania) and Mira-Cristiana Anisiu (Tiberiu Popoviciu Institute of Numerical Analysis of Romanian Academy), Chapter 26 (*Perfect Arrays*) by Antal Iványi (Eötvös Loránd University) and Chapter 27 (*Score Sets and Kings*) by Shariefuddin Pirzada (Kashmir University), Antal Iványi (Eötvös Loránd University) and Muhammad Ali Khan (King Fahd University of Petroleum and Minerals).

Part 8 (PARALLEL METHODS) consists of two chapters. Chapter 28 (*GPGPU: Computing on Graphics Processors*) is due to László Szirmay-Kalos and László Szécsi (both Budapest University of Technology and Economics) and Chapter 29 (*Quantum-based Computing*) is due to László Bacsárdi, and Sándor Imre (all Budapest University of Technology and Economics).

In Part 9 (PRACTICAL METHODS) are presented two chapters. Chapter 30 (*Branch and Bound*) is written by Béla Vizvári, while Chapter 31 (*Conflict Situations*) by Ferenc Szidarovszky (The University of Arizona) and László Domoszlai (Eötvös Loránd University). The book is closed by bibliography, subject index, name index and color version of 16 figures.

The chapters were validated by teachers and researchers of Archidata, Gödöllő University of Agricultural Sciences, Eötvös Loránd University, Nimfea Nature Conservation Association, Sapientia Hungarian University of Transylvania, and University of Szeged.

The volume contains pseudocodes of the presented algorithms, further tables, figures, verbal description and resource requirements, which help to understand the algorithms.

Bibliography contains more than 300 references, mirroring—beside the alien books and papers—and near all of the publications written in Hungarian. Electronic version of the bibliography contains near 1000 links to home pages of cited authors, journals and publishers: if you ask, then the editor of the volume sends you the digital bibliography.

INFORMATIKAI ALGORITMUSOK 3. kötet

Editor: A. Iványi

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First and second volumes of *Informatikai algoritmusok* (in Hungarian) were published in 2004 and 2005, resp. These volumes contained 17 + 14 chapters. Now we present Volume 3 containing further 8 chapters.

Volume 3 consists of three parts. Part 7 titled DISCRETE METHODS contains 3 chapters: Chapter 32 (*Heuristic Graph Searching*) is written by Tibor Gregorics (Eötvös Loránd University), Chapter 33 (*Comparison-based Ranking*) by Antal Iványi (Eötvös Loránd University) and Shariefuddin Pirzada (University of Kashmir), and Chapter 34 (*Complexity of Words*) by Zoltán Kása (Sapientia Hungarian University of Transylvania) and Mira-Cristiana Anisiu (Tiberiu Popoviciu Institute of Numerical Analysis of Romanian Academy).

Part 8 titled PARALLEL METHODS consists of two chapters. Chapter 35 (*GPGPU: Computing on Graphics Processors*) is due to László Szirmay-Kalos and László Szécsi (both Budapest University of Technology and Economics) and Chapter 36 (*Quantum-based Computing*) is due to László Bacsárdi, Máté Galambos and Sándor Imre (all Budapest University of Technology and Economics).

In Part 9 titled PRACTICAL METHODS we present three chapters. Chapter 37 (*Conflict Situations*) is written by Ferenc Szidarovszky (The University of Arizona) and László Domoszlai (Eötvös Loránd University), Chapter 38 (*Query Languages of Semantic Web*) by Balázs Pinczel, Balázs Kósa, Tamás Matuszka and Attila Kiss (all Eötvös Loránd University), and Chapter 39 (*Applications of Semantic Web*) by Gábor Rácz, Gergő Gombos and Attila Kiss (all Eötvös Loránd University).

The book is closed by bibliography, subject index, name index, and color version of 16 figures.

The chapters were validated by teachers and researchers of Archidata (György Antal), Gödöllő University of Agricultural Sciences (Sándor Molnár), Institute for Computer Science and Control (István Csaba Sidló), Nimfea Nature Conservation Association (Anna Iványi), Sapientia Hungarian University of Transylvania (Zoltán Kása), and University of Szeged (Zoltán Blázsik).

The volume contains pseudocodes of the presented algorithms, further tables, figures, verbal description and resource requirements, which help to understand the algorithms.

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