



Information Retrieval: Searching in the 21st Century

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This book is an essential reference to cutting-edge issues and future directions in information retrieval

Information retrieval (IR) can be defined as the process of representing, managing, searching, retrieving, and presenting information. Good IR involves understanding information needs and interests, developing an effective search technique, system, presentation, distribution and delivery. The increased use of the Web and wider availability of information in this environment led to the development of Web search engines. This change has brought fresh challenges to a wider variety of users' needs, tasks, and types of information.

Today, search engines are seen in enterprises, on laptops, in individual websites, in library catalogues, and elsewhere. *Information Retrieval: Searching in the 21st Century* focuses on core concepts, and current trends in the field.

This book focuses on:

- Information Retrieval Models
- User-centred Evaluation of Information Retrieval Systems
- Multimedia Resource Discovery
- Image Users' Needs and Searching Behaviour
- Web Information Retrieval
- Mobile Search
- Context and Information Retrieval
- Text Categorisation and Genre in Information Retrieval
- Semantic Search
- The Role of Natural Language Processing in Information Retrieval: Search for Meaning and Structure
- Cross-language Information Retrieval
- Performance Issues in Parallel Computing for Information Retrieval

This book is an invaluable reference for graduate students on IR courses or courses in related disciplines (e.g. computer science, information science, human-computer interaction, and knowledge management), academic and industrial researchers, and industrial personnel tracking information search

technology developments to understand the business implications. Intermediate-advanced level undergraduate students on IR or related courses will also find this text insightful. Chapters are supplemented with exercises to stimulate further thinking.

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Information Retrieval: Searching in the 21st Century From Wiley Bibliography

- Sales Rank: #5509340 in Books
- Published on: 2009-12-02
- Original language: English
- Number of items: 1

- Dimensions: 9.90" h x .92" w x 6.90" l, .0 pounds
- Binding: Hardcover
- 320 pages



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Editorial Review

Review

"I would recommend Information Retrieval to readers who already have a base of knowledge on core IR concepts." (*Inf Retrieval*, 9 December 2010)

"The authors have definitely met the challenge of providing a comprehensive volume of factual knowledge on IR fundamentals. I highly recommend the book to those in both academia and industry." (Computing Reviews, 9 May 2011)

From the Back Cover

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About the Author

Ayse Goker

Dr. Ayse Goker is a senior academic at City University London. Her research since the early 90s has focused on developing novel search techniques and environments, with an emphasis on personalised and context-sensitive information retrieval and management systems. These occur particularly within mobile and wireless computing, and also in bibliographic and web environments. Her skills are in identifying user needs and developing innovative systems that meet them. In international collaborations she has also been successful, with extensive experience in designing projects and managing teams to implement them. On the teaching side, Ayse has developed course modules in information systems on several degree programmes at both postgraduate and undergraduate levels.

Ayse is also a company co-founder of AmbieSense Ltd, a mobile information system company. This project began as the AmbieSense EU-IST project at Robert Gordon University, Aberdeen where she was a Reader and project leader. She holds a lifetime Enterprise Fellowship from the Royal Society of Edinburgh and Scottish Enterprise. More recently she was selected for and completed the Massachusetts Institute of Technology (MIT) Entrepreneurship Development Program in Boston, USA.

In her profession, she has been the Chair of the British Computing Society's Specialist Group in Information Retrieval (BCS IRSG) (2000-2005). She was recognised for the totality of her endeavours by becoming a finalist in the Blackberry Women & technology Awards (2005) for Best Woman in Technology (Academia).

John Davies

Dr John Davies leads the Semantic Technology research group at BT. Current interests centre around the application of semantic web technology to business intelligence, information integration, knowledge management and service-oriented environments. He is Project Director of the 12m ACTIVE EU integrated project. He co-founded the European Semantic Web conference series. He is also chairman of the European Semantic Technology Conference and a Vice-President of the Semantic Technology Institute. He chairs the NESSI Semantic Technology working group. He has written and edited many papers and books in the areas of the semantic technology, web-based information management and knowledge management; and has served on the program committee of numerous conferences in these and related areas. He is a Fellow of the British Computer Society and a Chartered Engineer. Earlier research at BT led to the development of a set of knowledge management tools which are the subject of a number of patents. These tools were spun out of BT and are now marketed by infonic Ltd, of which Dr Davies is Group Technical Advisor. Dr Davies received the BT Award for Technology Entrepreneurship for his contribution to the creation of infonic.

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