Adaptive Hypermedia And Adaptive Web Based Systems International Conference Ah 2000 Trento Italy August 28 30 2000 Proceedings Lecture Notes In Computer Science

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Networks for Managing Learner Models in Adaptive Hypermedia Systems: Emerging Research and OpportunitiesDealing with the Data FloodAdaptive Technologies for Training and EducationAdaptive Hypermedia and Adaptive Web-Based SystemsAdaptive Hypermedia and Adaptive Web-based SystemsCurrent Topics in Artificial IntelligenceUser Modeling, Adaptation and PersonalizationInnovative Mobile Learning: Techniques and TechnologiesManaging Cognitive Load in Adaptive Multimedia LearningAdaptive Hypertext and HypermediaUMAP '18Gender in E-learning and Educational GamesHandbook on Information Technologies for Education and TrainingCollaborative Filtering Recommender SystemsSolutions and Innovations in Web-Based Technologies for Augmented Learning: Improved Platforms, Tools, and ApplicationsWeb Intelligence: Research and DevelopmentSocial Information Technology: Connecting Society and Cultural Issues

Adaptable and Adaptive Hypermedia Systems

Web information systems engineering resolves the multifaceted issues of Web-based systems development; however, as part of an emergent yet prolific industry, Web site quality assurance is a continually adaptive process needing a comprehensive reference tool to merge all cutting-edge research and innovations. The Handbook of Research on Web Information Systems Quality integrates 30

authoritative contributions by 72 of the world's leading experts on the models, measures, and methodologies of Web information systems, software quality, and Web engineering into one practical guide to Web information systems quality, making this handbook of research an essential addition to all library collections.

The Adaptive Web

Semantic Web Engineering in the Knowledge Society

This volume contains the Proceedings of the 4th International Conference on Intelligent Interactive Multimedia Systems and Services (IIMSS-2011). IIMSS-2011 comes as a sequel to IIMSS-2008 (Piraeus-Athens, Greece, July 9, 10 and 11, 2008), IIMSS-2009 (Mogliano Veneto (near Venice), Italy, July 15, 16 and 17, 2009) and IIMSS-2010 (Baltimore, USA, July 28, 29, and 30, 2010). This fourth edition of the IIMSS Conference was organized jointly by the Department of Informatics of the University of Piraeus, Greece and the School of Electrical and Information Engineering of the University of South Australia, in conjunction with KES International. At a time when computers are more widespread than ever and computer users range from highly qualified scientists to non-computer-expert professionals and may include people with special needs, interactivity,

personalization and adaptivity have become a necessity in modern multimedia systems. Modern intelligent multimedia systems need to be interactive not only through classical modes of interaction where the user inputs information through a keyboard or mouse. They must also support other modes of interaction, such as visual or lingual computer-user interfaces, which render them more attractive, user friendlier, more human-like and more informative. IIMSS is a new series of international scientific conferences aimed at presenting novel research in the fields of intelligent multimedia systems relevant to the development of a new generation of interactive, user-centric services.

The Adaptive Web

"This book provides information on different styles of instructional design methodologies, tips, and strategies on how to use technology to facilitate active learning and techniques to help faculty and researchers develop online instructional and teaching materials. It enables libraries to provide a foundational reference for researchers, educators, administrators, and others in the context of instructional systems and technology"--Provided by publisher.

Collaborative and Social Information Retrieval and Access: Techniques for Improved User Modeling

"This book presents quality articles focused on key issues concerning the behavioral and social aspects of information technology"--Provided by publisher.

User Modeling, Adaptation, and Personalization

"This book provides a source for definitions, antecedents, and consequences of social informatics and the cultural aspect of technology. It addresses cultural/societal issues in social informatics technology and society, the Digital Divide, government and technology law, information security and privacy, cyber ethics, technology ethics, and the future of social informatics and technology"--Provided by publisher.

Intelligent Tutoring Systems

Research on user modeling (UM) and personalization can be traced back to the early1970s,butitwasnotuntilthemid-1980sthatthecommunityofresearchers working on user modeling and user-adaptive systems started its own series of - ternational meetings on UM. After three international workshops in 1986, 1990, and 1992, User Modeling was transformed into an increasingly prominent bi- nial international conference. Its sustainability was ensured by User Modeling Inc. (http://www. um. org), a professional organization of researchers that has solicited and selectedbids

to run the conference,nominated programchairs,and provided ?nancial backing to UM conferences. Between 1986 and 2007, 11 UM conferences were held (including the three workshops just mentioned), bringing together researchers from many areas and stimulating the development of the ?eld. Since the early 1990s, the rapid growth of the World Wide Web and other new platforms has populated the lives of an increasing number of people with a great variety of computing systems. This rampant growth has tended to increase the need for personalization,a topic that more and more researchersand practiti- ers are addressing and that has given rise to several new conferences. Among them,anotherbiennialseriesonAdaptiveHypermediaandAdaptiveWeb-Based Systems (Adaptive Hypermedia or AH for short) quickly established itself as a majorforumandsistereventtoUM,running onalternateyearswithit. Between 2000and 2008,?veAH conferenceswere held. During this period, the increasing complexity and prominence of Web systems prompted the enlargement of the list of topics covered by the AH series.

Adaptive Hypermedia and Adaptive Web-Based Systems

"Provides theory and research-based recommendations on information presentation techniques for multimedia and e-learning environments. Focuses on extensively researched principles and methodologies, offering comprehensive research and practical implications while providing concrete examples on adaptive

multimedia learning."--Publisher description.

Evolutionary Concepts in End User Productivity and Performance: Applications for Organizational Progress

Here are the refereed proceedings of the 4th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, AH 2006, held in Dublin, Ireland, June 2006. The book presents 22 revised full papers and 19 revised short papers together with abstracts of 3 keynotes, 12 poster papers, and 14 doctoral consortium posters. Topics include pioneering theories, techniques, and innovative technologies to provide dynamic personalization, adaptation, and contextualization of hypermedia resources and services.

Web Dynamics

Hypertext/hypermedia systems and user-model-based adaptive systems in the areas of learning and information retrieval have for a long time been considered as two mutually exclusive approaches to information access. Adaptive systems tailor information to the user and may guide the user in the information space to present the most relevant material, taking into account a model of the user's goals, interests and preferences. Hypermedia systems, on the other hand, are `user

neutral': they provide the user with the tools and the freedom to explore an information space by browsing through a complex network of information nodes. Adaptive hypertext and hypermedia systems attempt to bridge the gap between these two approaches. Adaptation of hypermedia systems to each individual user is increasingly needed. With the growing size, complexity and heterogeneity of current hypermedia systems, such as the World Wide Web, it becomes virtually impossible to impose guidelines on authors concerning the overall organization of hypermedia information. The networks therefore become so complex and unstructured that the existing navigational tools are no longer powerful enough to provide orientation on where to search for the needed information. It is also not possible to identify appropriate pre-defined paths or subnets for users with certain goals and knowledge backgrounds since the user community of hypermedia systems is usually quite inhomogeneous. This is particularly true for Web-based applications which are expected to be used by a much greater variety of users than any earlier standalone application. A possible remedy for the negative effects of the traditional `one-size-fits-all' approach in the development of hypermedia systems is to equip them with the ability to adapt to the needs of their individual users. A possible way of achieving adaptivity is by modeling the users and tailoring the system's interactions to their goals, tasks and interests. In this sense, the notion of adaptive hypertext/hypermedia comes naturally to denote a hypertext or hypermedia system which reflects some features of the user and/or characteristics of his system usage in a user model, and utilizes this model in order to adapt

various behavioral aspects of the system to the user. This book is the first comprehensive publication on adaptive hypertext and hypermedia. It is oriented towards researchers and practitioners in the fields of hypertext and hypermedia, information systems, and personalized systems. It is also an important resource for the numerous developers of Web-based applications. The design decisions, adaptation methods, and experience presented in this book are a unique source of ideas and techniques for developing more usable and more intelligent Web-based systems suitable for a great variety of users. The practitioners will find it important that many of the adaptation techniques presented in this book have proved to be efficient and are ready to be used in various applications.

User Modeling 2003

This state-of-the-art survey provides a systematic overview of the ideas and techniques of the adaptive Web and serves as a central source of information for researchers, practitioners, and students. The volume constitutes a comprehensive and carefully planned collection of chapters that map out the most important areas of the adaptive Web, each solicited from the experts and leaders in the field.

Handbook of Research on Web Information Systems Quality

"This book aims to represent some of the most current investigations into a wide range of end-user computing issues, enhancing understanding of recent developments"--Provided by publisher.

Selected Readings on the Human Side of Information Technology

"This book includes the challenges and practical experience of the design of M-Learning environments, covering current developments in M-learning experiences in both academia and industry"--Provided by publisher.

Intelligent Interactive Multimedia Systems and Services

Collaborative Filtering Recommender Systems discusses a wide variety of the recommender choices available and their implications, providing both practitioners and researchers with an introduction to the important issues underlying recommenders and current best practices for addressing these issues.

Engineering Knowledge in the Age of the Semantic Web

Building an elegant, functional website requires more than just knowing how to

code. In Adaptive Web Design, Second Edition, you'll learn how to use progressive enhancement to build websites that work anywhere, won't break, are accessible by anyone—on any device—and are designed to work well into the future. This new edition of Adaptive Web Design frames even more of the web design process in the lens of progressive enhancement. You will learn how content strategy, UX, HTML, CSS, responsive web design, JavaScript, server-side programming, and performance optimization all come together in the service of users on whatever device they happen to use to access the web. Understanding progressive enhancement will make you a better web professional, whether you're a content strategist, information architect, UX designer, visual designer, front-end developer, back-end developer, or project manager. It will enable you to visualize experience as a continuum and craft interfaces that are capable of reaching more users while simultaneously costing less money to develop. When you've mastered the tenets and concepts of this book, you will see the web in a whole new way and gain web design superpowers that will make you invaluable to your employer, clients, and the web as a whole. Visit http://adaptivewebdesign.info to learn more.

Adaptive Web Design

ITS 2000 is the fifth international conference on Intelligent Tutoring Systems. The preceding conferences were organized in Montreal in 1988, 1992, and 1996. These conferences were so strongly supported by the international community that it was

decided to hold them every two years. ITS'98 was organized by Carol Redfield and Valerie Shute and held in San Antonio, Texas. The program committee included members from 13 countries. They received 140 papers (110 full papers and 30 young researchers papers) from 21 countries. As with any international conference whose proceedings serve as a reference for the field, the program committee faced the demanding task of selecting papers from a particularly high quality set of submissions. This proceedings volume contains 61 papers selected by the program committee from the 110 papers submitted. They were presented at the conference, along with six invited lectures from well known speakers. The papers cover a wide range of subjects including architectures for ITS, teaching and learning strategies, authoring systems, learning environments, instructional designs, cognitive approaches, student modeling, distributed learning environments, evaluation of instructional systems, cooperative systems, Web based training systems, intelligent agents, agent based tutoring systems, intelligent multimedia and hypermedia systems, interface design, and intelligent distance learning.

Advances in Web-based Education

The World Wide Web has become a ubiquitous tool for finding information, performing distributed computation, and conducting business, learning and science. In order to fully exploit its huge potential as a global information

repository, we need to understand the dynamics of the Web. Levene and Poulovassilis set the scene by giving an overview of the ways in which the Web is dynamic in its content, size, topology and use, and they point to some of the technical challenges caused by its dynamic nature. The subsequent contributions from leading experts are structured into four parts: evolution of the Web's structure and content, searching and navigating the Web, handling events and change on the Web, and personalized access to the Web. The authors describe the current state of the art in areas such as methods for identifying Web communities, Web navigation and crawling, measuring how well search engines cope with change, Active XML and Active XQuery, adaptive hypermedia, and personalization in mobile portals. The overall result is a coherent, comprehensive picture of the field. The book introduces the reader to this exciting field, as well as being a lasting source of reference for researchers and professionals who are engaged with the Web.

Handbook of Research on Instructional Systems and Technology

"This book provides coverage of a wide range of factors that influence the design, use and adoption of Personalized Learning Environments"--Provided by publisher.

Adaptive Hypermedia and Adaptive Web-Based Systems

The refereed proceedings of the 9th International Conference on User Modeling, UM 2003, held in Johnstown, PA, USA in June 2003. The 20 revised full papers and 28 revised poster papers presented together with 12 abstracts were carefully reviewed and selected from 106 submissions. The papers are organized in topical sections on adaptive hypermedia, adaptive Web, natural language and dialogue, plan recognition, evaluation, emerging issues of user modeling, group modeling and cooperation, applications, student modeling, learning environments - natural language and paedagogy, and mobile and ubiquitous computing.

Architecture Solutions for E-Learning Systems

Teachers use e-learning systems to develop course notes and web-based activities to communicate with learners on one side and monitor and classify their progress on the other. Learners use it for learning, communication, and collaboration. Adaptive e-learning systems often employ learner models, and the behavior of an adaptive system varies depending on the data from the learner model and the learner's profile. Without knowing anything about the learner who uses the system, a system would behave in exactly the same way for all learners. Bayesian Networks for Managing Learner Models in Adaptive Hypermedia Systems:

Emerging Research and Opportunities is a collection of research on the use of Bayesian networks and methods as a probabilistic formalism for the management of the learner model in adaptive hypermedia. It specifically discusses comparative studies, transformation rules, and case diagrams that support all phases of the learner model and the use of Bayesian networks and multi-entity Bayesian networks to manage dynamic aspects of this model. While highlighting topics such as developing the learner model, learning management systems, and modeling techniques, this book is ideally designed for instructional designers, course administrators, educators, researchers, and professionals.

Emerging Topics and Technologies in Information Systems

This book constitutes the thoroughly refereed joint post-proceedings of the 10th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2003, and the 5th Conference on Technology Transfer, TTIA 2003, held in San Sebastián, Spain, in November 2003. The 66 revised full papers presented together with one invited paper were carefully selected during two rounds of reviewing and improvement from an initial total of 214 submissions. The papers span the entire spectrum of artificial intelligence and advanced applications in various fields.

Adaptive Hypermedia and Adaptive Web-Based Systems

"This book identifies solutions and suggestions for the design and development of adaptive applications and systems that provides more usable and qualitative content and services adjusted to the needs and requirements of the various users"--Provided by publisher.

Intelligent User Interfaces: Adaptation and Personalization Systems and Technologies

This book constitutes the refereed proceedings of the first International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, AH 2000, held in Trento, Italy, in August 2000. The 22 revised full papers presented together with 35 short papers were carefully reviewed and selected from 55 submissions. Among the topics covered are hypertext, user modeling, machine learning, natural language generation, information retrieval, intelligent tutoring systems, cognitive science, web-based education, etc.

Bayesian Networks for Managing Learner Models in Adaptive Hypermedia Systems: Emerging Research and Opportunities

This book constitutes the refereed proceedings of the 14th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2004,

held in Whittleburg Hall, UK in October 2004. The 30 revised full papers and 21 revised short papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on ontologies: mappings and translations; ontologies: problems and applications; ontologies: trust and e-learning; ontology maintenance; applications to medicine; portals; knowledge acquisition; Web services and problem solving; and searching, browsing, and knowledge acquisition.

Dealing with the Data Flood

Adaptive Technologies for Training and Education

This book constitutes the thoroughly refereed proceedings of the 22nd International Conference on User Modeling, Adaption and Personalization, held in Aalborg, Denmark, in July 2014. The 23 long and 19 short papers of the research paper track were carefully reviewed and selected from 146 submissions. The papers cover the following topics: large scale personalization, adaptation and recommendation; Personalization for individuals, groups and populations; modeling individuals, groups and communities; Web dynamics and personalization; adaptive web-based systems; context awareness; social recommendations; user experience;

user awareness and control; Affective aspects; UMAP underpinning by psychology models; privacy; perceived security and trust; behavior change and persuasion.

Adaptive Hypermedia and Adaptive Web-Based Systems

"This volume provides an overview of the latest advancements in computer-based education training that use student performance data to provide adaptive and hence more efficient individualized learning opportunities"--

Adaptive Hypermedia and Adaptive Web-based Systems

"This book covers a wide range of the most current research in the development of innovative web-based learning solutions, specifically facilitating and augmenting learning in diverse contemporary organizational settings"--Provided by publisher.

Current Topics in Artificial Intelligence

"This book communicates the various challenges and great opportunities that information systems research produces"--Provided by publisher.

User Modeling, Adaptation and Personalization

This handbook enables readers to gain a deep understanding of past, current, and forthcoming research and applications in the field of educational technology. Readers develop an in-depth understanding of complex theories, strategies, concepts, and methods underlying the design, development, implementation, and evaluation of educational technologies. Discussing both the current state-of-the-art as well as emerging technologies, the handbook serves as a comprehensive guide for researchers and practitioners working in education and training. This Second Edition features completely revised and updated chapters that reflect the latest developments in the field.

Innovative Mobile Learning: Techniques and Technologies

It is our great pleasure to welcome you to the 26th ACM International Conference on User modeling, Adaptation and personalization - UMAP 2018. UMAP is the premier international conference for researchers and practitioners working on systems that adapt to individual users or to groups of users. UMAP is the successor of the biennial User Modeling (UM) and Adaptive Hypermedia and Adaptive Web-based Systems (AH) conferences that were merged in 2009. It has traditionally been organized under the auspices of User Modeling Inc. Since 2016, UMAP is an ACM conference, sponsored by ACM SIGCHI and SIGWEB. UMAP 2018 is a very special conference, as this is the very first time UMAP will be located in Asia! We

hope to meet many like-minded researchers from Singapore and other Asian countries. The conference spans a wide scope of topics related to user modeling, adaptation, and personalization. UMAP 2018 is focused on bringing together cutting-edge research from user interaction and modeling, adaptive technologies, and delivery platforms. It includes high-quality peer-reviewed papers featuring substantive new research in one of five research tracks, each chaired by leaders in the field: Adaptive Hypermedia and the Semantic Web (track chairs Peter Brusilovsky and Geert-Jan Houben) Intelligent User interfaces (track chairs Shlomo Berkovsky and Markus Schedl) Personalized Recommender Systems (track chairs Dietmar Jannach and Markus Zanker) Personalized Social Web (track chairs Cecile Paris and Julita Vassileva) Technology-Enhanced Adaptive Learning (track chairs Olga Santos and Carla Limongelli) The call for papers attracted 137 submissions from 33 different countries on all continents except Antarctica: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Cyprus, Denmark, Finland, France, Germany, India, Indonesia, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Philippines, Portugal, Saudi Arabia, Singapore, South Korea, Spain, Sweden, Switzerland, United Kingdom, and the United States The international program committee consisted of 131 reviewers. Each submission received at least 3 reviews. After the initial reviews were submitted, the designated track chairs (TCs) facilitated discussion amongst reviewers in order to resolve differences and correct misunderstandings. The TCs then provided a recommendation to the Program Chairs. The final decisions were based on these

recommendations, meta-reviews, and reviewer scores. Moreover, 10 papers were accepted as extended abstracts, and 13 were included in Late Breaking Results track (LBR). We thank Hui Fang and Pasquale Lops, LBR and Demo Chairs, for their efforts on selecting addition papers submitted to this track. As a result, there are 3 Demos, 3 Theory, Opinion and Reflection papers, and 20 Late Breaking Results papers presented in the iv UMAP poster sessions, which collectively showcase the wide spectrum of novel ideas and latest results in user modeling, adaptation and personalization. We also encourage attendees to attend the keynote presentations; these valuable and insightful talks guide us to a better understanding of the future. Running Recommendations: Personalisation Opportunities for Health and Fitness, Barry Smith (University College Dublin, Ireland) Robots that Listen to People's Hearts: the Role of Emotions in the Communication between Humans and Social Robots, Ana Paiva (University of Lisbon, Portugal) Interpreting User Input Intention in Natural Human Computer Interaction, Yuanchun Shi (Tsinghua University, China)

Managing Cognitive Load in Adaptive Multimedia Learning

Dealing with a broad variety of topics in the fields of gender, e-learning, and educational games, this book brings together research and development projects as well as best practice examples. By giving insight into their expertise, the authors of this anthology give a comprehensive picture of the various aspects of recent research and practice in their respective fields. Karin Siebenhandl is a

scientific assistant and course director at Danube University, Krems (Austria). Michael Wagner is professor for Technology Enhanced Learning and Multimedia at the Department for Interactive Media and Educational Technology at Danube University, Krems (Austria). Sabine Zauchner, MSc is a scientific assistant and lecturer at the Institute of Psychology at the University of Vienna (Austria).

Adaptive Hypertext and Hypermedia

"This book provides fundamental research on the architecture of learning technology systems, discussing such issues as the common structures in LTS and solutions for specific forms such as knowledge-based, distributed, or adaptive applications of e-learning. Researchers, and scholars in the fields of learning content software development, computing and educational technologies, and e-learning will find it an invaluable resource"--Provided by publisher.

UMAP '18

This state-of-the-art survey provides a systematic overview of the ideas and techniques of the adaptive Web and serves as a central source of information for researchers, practitioners, and students. The volume constitutes a comprehensive and carefully planned collection of chapters that map out the most important areas

of the adaptive Web, each solicited from the experts and leaders in the field.

Gender in E-learning and Educational Games

This book constitutes the refereed proceedings of the First Asia-Pacific Conference on Web Intelligence, WI 2001, held in Maebashi City, Japan, in October 2001. The 28 revised full papers and 45 revised short papers presented were carefully reviewed and selected from 153 full-length paper submissions. Also included are an introductory survey and six invited presentations. The book offers topical sections on Web information systems environments and foundations, Web human-media engineering, Web information management, Web information retrieval, Web agents, Web mining and farming, and Web-based applications.

Handbook on Information Technologies for Education and Training

This book constitutes the refereed proceedings of the Second International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems, AH 2002, held in Malaga, Spain, in May 2002. The 33 revised full papers and 23 short papers presented were carefully reviewed and selected from 109 submissions. Also included are three invited contributions, 30 posters, and 5 presentations given at

the associated doctoral constortium. Among the topics covered are adaptive hypertext and hypermedia, user modeling, adaptive learning, adaptive tutoring systems, information retrieval, educational hypermedia systems, Web adaption, adaptive navigation, adaption and personalization.

Collaborative Filtering Recommender Systems

"This book lays the foundations for understanding the concepts and technologies behind the Semantic Web"--Provided by publisher.

Solutions and Innovations in Web-Based Technologies for Augmented Learning: Improved Platforms, Tools, and Applications

"This book deals with the improvement of user modeling in the context of Collaborative and Social Information Access and Retrieval (CSIRA) techniques"--Provided by publisher.

Web Intelligence: Research and Development

Adaptive Hypermedia has emerged as an important area of both academic and

deployed research. It encompasses a broad range of research that will enable personalized, adaptive hypermedia systems to play an even more e?ective role in people's lives. The Web has enabled the widespread use of many person- ized systems, such as recommenders, personalized ?lters and retrieval systems, e-learning systems and various forms of collaborative systems. Such systems have been widely deployed in diverse domains such as e-Commerce, e-Health, e-Government, digital libraries, personalized travel planning as well as tourist and cultural heritage services. They are particularly promising for users with special needs. The exciting possibilities of such deployed adaptive hypermedia systems rely on research progress in a broad range of areas such as: user pro- ing and modeling; acquisition, updating and management of user models; group modeling and community-based pro?ling;recommender systems and recomm- dation strategies; data mining for personalization; the Semantic Web; adaptive multimedia content authoring and delivery; ubiquitous computing environments and Smart Spaces; personalization for the plethora of mobile devices, such as PDAs, mobile phones and other hand-held devices; and pragmatics such as p-vacy, trust and security. Empirical studies of adaptive hypermedia and Web systems are also critical to informing future directions. The AdaptiveHypermediaconferenceshavebecomethe majorforumsforthe scienti?c exchange and presentation of research results on adaptive hypermedia and adaptive Web-based systems.

Social Information Technology: Connecting Society and Cultural Issues

Examines new hypermedia systems, discussing the benefits, impacts, and implications. This book covers the most current issues in the field, while providing insight into analytical and architectural aspects of the topic.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION