

Wireless Internet And Le Computing Interoperability And Performance Information And Communication Technology Series

This book provides a comprehensive guide to the emerging field of network slicing and its importance to bringing novel 5G applications into fruition. The authors discuss the current trends, novel enabling technologies, and current challenges imposed on the cellular networks. Resource management aspects of network slicing are also discussed by summarizing and comparing traditional game theoretic and optimization based solutions. Finally, the book presents some use cases of network slicing and applications for vertical industries. Topics include 5G deliverables, Radio Access Network (RAN) resources, and Core Network (CN) resources. Discusses the 5G network requirements and the challenges therein and how network slicing offers a solution Features the enabling technologies of future networks and how network slicing will play a role Presents the role of machine learning and data analytics for future cellular networks along with summarizing the machine learning approaches for 5G and beyond networks

This book constitutes the refereed proceedings of the 7th International Conference on Wired/Wireless Internet Communications, WWIC 2009, held in Enschede, The Netherlands in May 2008.

While wireless technologies continue to provide an array of new challenges and multi-domain applications for business processes and solutions, there still remains to be a comprehensive

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understanding of its various dimensions and environments. Security, Design, and Architecture for Broadband and Wireless Network Technologies provides a discussion on the latest research achievements in wireless networks and broadband technology. Highlighting new trends, applications, developments, and standards, this book is essential for next generation researchers and practitioners in the ICT field.

This brief proposes that the keys to internet cross-layer optimization are the development of non-standard implicit primal-dual solvers for underlying optimization problems, and design of jointly optimal network protocols as decomposition of such solvers. Relying on this novel design-space oriented approach, the author develops joint TCP congestion control and wireless-link scheduling schemes for wireless applications over Internet with centralized and distributed (multi-hop) wireless links. Different from the existing solutions, the proposed schemes can be asynchronously implemented without message passing among network nodes; thus they are readily deployed with current infrastructure. Moreover, global convergence/stability of the proposed schemes to optimal equilibrium is established using the Lyapunov method in the network fluid model. Simulation results are provided to evaluate the proposed schemes in practical networks.

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version.

The proliferation of powerful but cheap devices, together with the availability of a plethora of wireless technologies, has pushed for the spread of the Wireless Internet of Things (WIoT), which is typically much more heterogeneous, dynamic, and general-purpose if compared with the traditional IoT. The WIoT is characterized by the dynamic interaction of traditional infrastructure-side devices, e.g., sensors and actuators, provided by municipalities in Smart City infrastructures, and other portable and more opportunistic ones, such as mobile smartphones, opportunistically integrated to dynamically extend and enhance the WIoT environment. A key enabler of this vision is the advancement of software and middleware technologies in various mobile-related sectors, ranging from the effective synergic management of wireless communications to mobility/adaptivity support in operating systems and differentiated integration and management of devices with heterogeneous capabilities in middleware, from horizontal support to crowdsourcing in different application domains to dynamic offloading to cloud resources, only to mention a few. The book presents state-of-the-art contributions in the articulated WIoT area by providing novel insights about the development and adoption of middleware solutions to enable the WIoT vision in a wide spectrum of heterogeneous scenarios, ranging from industrial environments to educational devices. The presented solutions provide readers with differentiated point of views, by demonstrating how the WIoT vision can be applied to several aspects of our daily life in a pervasive manner.

TRAVEL & HOLIDAY GUIDES. The volcanic island of Grenada and the smaller Grenadines, Carriacou and Petite Martinique, sit at the southern tip of the Windward

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Islands chain in the eastern Caribbean. In 2004, they were decimated by Hurricane Ivan. The nutmeg trees on which the economy was once reliant were destroyed, and buildings and infrastructure collapsed. But now the islands have been rebuilt, renovated and improved. They are once more open for business, and enjoying a newfound prosperity as visitor numbers increase year on year. This guide takes hikers on treks through the rainforest, and divers to The Bianca C, the largest shipwreck in the Caribbean. It shows cultural visitors the nation's diverse heritage and rich musical traditions and leads those in need of a little lie-down to unspoilt beaches and secluded coves.

This book describes the technologies involved in all aspects of a large networking system and how the various devices can interact and communicate with each other. Using a bottom up approach the authors demonstrate how it is feasible, for instance, for a cellular device user to communicate, via the all-purpose TCP/IP protocols, with a wireless notebook computer user, traversing all the way through a base station in a cellular wireless network (e.g., GSM, CDMA), a public switched network (PSTN), the Internet, an intranet, a local area network (LAN), and a wireless LAN access point. The information bits, in travelling through this long path, are processed by numerous disparate communication technologies. The authors also describe the technologies involved in infrastructure less wireless networks.

This book constitutes the thoroughly refereed post-conference proceedings of the 8th

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International Conference on Wireless Internet, WICON 2014, held in Lisbon, Portugal, in November 2014. The 45 revised full papers were carefully reviewed and selected from numerous submissions. The papers cover topics such as 5G mobile communications, Internet of Things (IoT), super Wi-Fi and V2V/V2I.

Explore foundational concepts in blockchain theory with an emphasis on recent advances in theory and practice In *Wireless Blockchain: Principles, Technologies and Applications*, accomplished researchers and authors Bin Cao, Lei Zhang, Mugen Peng, and Muhammad Ali Imran deliver a robust and accessible exploration of recent developments in the theory and practice of blockchain technology, systems, and potential application in a variety of industrial sectors, including manufacturing, entertainment, public safety, telecommunications, public transport, healthcare, financial services, automotive, and energy utilities. The book presents the concept of wireless blockchain networks with different network topologies and communication protocols for various commonly used blockchain applications. You'll discover how these variations and how communication networks affect blockchain consensus performance, including scalability, throughput, latency, and security levels. You'll learn the state-of-the-art in blockchain technology and find insights on how blockchain runs and co-works with existing systems, including 5G, and how blockchain runs as a service to support all vertical sectors efficiently and effectively. Readers will also benefit from the inclusion of: A thorough introduction to the Byzantine Generals problem, the fundamental theory of

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distributed system security and the foundation of blockchain technology An overview of advances in blockchain systems, their history, and likely future trends Practical discussions of Proof-of-Work systems as well as various Proof-of-X alternatives, including Proof-of-Stake, Proof-of-Importance, and Proof-of-Authority A concise examination of smart contracts, including trusted transactions, smart contract functions, design processes, and related applications in 5G/B5G A treatment of the theoretical relationship between communication networks and blockchain Perfect for electrical engineers, industry professionals, and students and researchers in electrical engineering, computer science, and mathematics, *Wireless Blockchain: Principles, Technologies and Applications* will also earn a place in the libraries of communication and computer system stakeholders, regulators, legislators, and research agencies. *Insight Explore Guides*: pocket-sized books to inspire your on-foot exploration of top international destinations. Experience the best of Venice with this indispensably practical *Insight Explore Guide*. From making sure you don't miss out on must-see attractions like St Mark's Square and the Rialto bridge, to discovering hidden gems, including the less-travelled and more authentic backwaters of Dorsoduro, the easy-to-follow, ready-made walking routes will help you plan your trip, save you time, and enhance your exploration of this unique city. - Practical, pocket-sized and packed with inspirational insider information, this will make the ideal on-the-move companion to your trip to Venice - Enjoy over 14 irresistible Best Routes to walk, from the Grand Canal to

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the outlying islands of Murano, Burano and Torcello - Features concise insider information about landscape, history, food and drink, and entertainment options - Discover your destination's must-see sights and hand-picked hidden gems - Directory section provides invaluable insight into top accommodation, restaurant and nightlife options by area, along with an overview of language, books and films - Inspirational colour photography throughout About Insight Guides: Insight Guides is a pioneer of full-colour guide books, with almost 50 years' experience of publishing high-quality, visual travel guides with user-friendly, modern design. We produce around 400 full-colour print guide books and maps as well as phrase books, picture-packed eBooks and apps to meet different travellers' needs. Insight Guides' unique combination of beautiful travel photography and focus on history and culture create a unique visual reference and planning tool to inspire your next adventure.

Mobile computing is one of the biggest issues of computer technology, science and industry today. This book looks at the requirements of developing mobile computing systems and the challenges they pose to computer designers. It examines the requirements of mobile computing hardware, infrastructure and communications services. Information security and the data protection aspects of design are considered, together with telecommunications facilities for linking up to the worldwide computer infrastructure. The book also considers the mobility of computer users versus the portability of the equipment. The text also examines current applications of mobile

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computing in the public sector and future innovative applications.

Wireless applications are definitely the next big thing in communications. Millions of people around the world use the Internet every day - to stay in touch with remote locations, follow the stock market, keep up with the news, check the weather, make travel plans, conduct business, shop, entertain themselves, and learn. The logical next step is th

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Recent advances in mobile and wireless communication and personal computer technology have created a new paradigm for information processing. Today, mobile and wireless communications exist in many forms, providing different types of services. Existing forms of mobile and wireless communications continue to experience rapid growth and new applications and approaches are being spawned at an increasing rate. Recently, the mobile and wireless Internet has become one of the most important issues in the telecommunications arena. The development of the mobile and wireless Internet is the evolution of several different technologies coming together to make the Internet more accessible. Technologies such as the Internet, wireless networks, and mobile computing have merged to form the mobile and wireless Internet. The mobile and wireless Internet extends traditional Internet and World Wide Web services to wireless devices such as cellular phones, Personal Digital Assistants (PDAs) and notebooks. Mobile and wireless Internet can give users access to personalized information anytime and anywhere they need it, and thus empower them to make decisions more quickly, and bring them closer to friends, family, and work colleagues. Wireless data communication methods have been around for sometime.

Mobility Models for Next Generation Wireless Networks: Ad Hoc, Vehicular and Mesh Networks provides the reader with an overview of mobility modelling, encompassing both theoretical and practical aspects related to the challenging mobility modelling task. It also: Provides up-to-date coverage of mobility models for next generation wireless networks Offers an in-depth discussion of the most representative mobility models for major next generation wireless network application scenarios, including WLAN/mesh networks, vehicular networks,

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wireless sensor networks, and opportunistic networks Demonstrates the practices for designing effective protocol/applications for next generation wireless networks Includes case studies showcasing the importance of properly understanding fundamental mobility model properties in wireless network performance evaluation

Provides a detailed analysis of the standards and technologies enabling applications for the wireless Internet of Things The Wireless Internet of Things: A Guide to the Lower Layers presents a practitioner's perspective toward the Internet of Things (IoT) focusing on over-the-air interfaces used by applications such as home automation, sensor networks, smart grid, and healthcare. The author—a noted expert in the field—examines IoT as a protocol-stack detailing the physical layer of the wireless links, as both a radio and a modem, and the media access control (MAC) that enables communication in congested bands. Focusing on low-power wireless personal area networks (WPANs) the text outlines the physical and MAC layer standards used by ZigBee, Bluetooth LE, Z-Wave, and Thread. The text deconstructs these standards and provides background including relevant communication theory, modulation schemes, and access methods. The author includes a discussion on Wi-Fi and gateways, and explores their role in IoT. He introduces radio topologies used in software-defined radio implementations for the WPANs. The book also discusses channel modelling and link budget analysis for WPANs in IoT. This important text: Introduces IEEE 802.15.4, ITU-T G.9959, and Bluetooth LE as physical layer technology standards enabling wireless IoT Takes a layered approach in order to cultivate an appreciation for the various standards that enable interoperability Provides clarity on wireless standards with particular focus on actual implementation Written for IoT application and platform developers as well as digital signal

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processing, network, and wireless communication engineers; The Wireless Internet of Things: A Guide to the Lower Layers offers an inclusive overview of the complex field of wireless IoT, exploring its beneficial applications that are proliferating in a variety of industries.

This book constitutes the proceedings of the 9th IFIP TC 6 International Conference on Wired/Wireless Internet Communications, WWIC 2011, held in Vilanova i la Geltrú, Spain, in June 2011. The 26 contributions included were carefully reviewed and selected from 50 submissions. In addition the book contains 15 invited papers. The contributions are structured in topical sections on mobility and LTE networks; performance and simulation analysis; adaptive approaches to guarantee E2E network services; energy efficiency and cooperation in wireless networks; transmission and management; quality through routing, naming and control; wireless multi-hop communications challenges in the future internet; and emerging contributions.

Written in a clear and concise manner, this book presents readers with an in-depth discussion of the 5G technologies that will help move society beyond its current capabilities. It perfectly illustrates how the technology itself will benefit both individual consumers and industry as the world heads towards a more connected state of being. Every technological application presented is modeled in a schematic diagram and is considered in depth through mathematical analysis and performance assessment. Furthermore, published simulation data and measurements are checked. Each chapter of 5G Physical Layer Technologies contains texts, mathematical analysis, and applications supported by figures, graphs, data tables, appendices, and a list of up to date references, along with an executive summary of the key issues. Topics covered include: the evolution of wireless communications; full duplex communications and full

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dimension MIMO technologies; network virtualization and wireless energy harvesting; Internet of Things and smart cities; and millimeter wave massive MIMO technology. Additional chapters look at millimeter wave propagation losses caused by atmospheric gases, rain, snow, building materials and vegetation; wireless channel modeling and array mutual coupling; massive array configurations and 3D channel modeling; massive MIMO channel estimation schemes and channel reciprocity; 3D beamforming technologies; and linear precoding strategies for multiuser massive MIMO systems. Other features include: In depth coverage of a hot topic soon to become the backbone of IoT connecting devices, machines, and vehicles Addresses the need for green communications for the 21st century Provides a comprehensive support for the advanced mathematics exploited in the book by including appendices and worked examples Contributions from the EU research programmes, the International telecommunications companies, and the International standards institutions (ITU; 3GPP; ETSI) are covered in depth Includes numerous tables and illustrations to aid the reader Fills the gap in the current literature where technologies are not explained in depth or omitted altogether 5G Physical Layer Technologies is an essential resource for undergraduate and postgraduate courses on wireless communications and technology. It is also an excellent source of information for design engineers, research and development engineers, the private-public research community, university research academics, undergraduate and postgraduate students, technical managers, service providers, and all professionals involved in the communications and technology industry.

"This reference book brings together various perspectives on the usage and application of mobile technologies and networks in global business"--Provided by publisher.

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Insight Pocket Guides: ideal itineraries and top travel tips in a pocket-sized package. Plan your trip, plan perfect days and discover how to get around - this pocket-sized guide is a convenient, quick-reference companion to discovering what to do and see in Madagascar, from top attractions like the Parc National des Tsingy de Bemaraha and Nosy Be, to hidden gems, including the Baie des Dunes and Andrambovato. · Compact, concise, and packed with essential information about Where to Go and What to Do, this is an ideal on-the-move companion when you're exploring Madagascar · Covers Top Ten Attractions, including Antananarivo, the Mandrare River Valley and the Allée des Baobabs and Perfect Day itinerary suggestions · Offers an insightful overview of landscape, history and culture · Contains essential practical information on everything from Eating Out to Getting Around · Inspirational colour photography throughout · Sharp design and colour-coded sections make for an engaging reading experience About Insight Guides: Insight Guides is a pioneer of full-colour guide books, with almost 50 years' experience of publishing high-quality, visual travel guides with user-friendly, modern design. We produce around 400 full-colour print guide books and maps, as well as phrase books, picture-packed eBooks and apps to meet different travellers' needs. Insight Guides' unique combination of beautiful travel photography and focus on history and culture

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create a unique visual reference and planning tool to inspire your next adventure. The Ultimate French Notebook is a vocabulary notebook for French learners, but it's also suitable for French speakers who want to learn English, because all the content in the vocabulary section is both in French and English. The notebook has 160 pages including 65 different topics. There are 64 pages about vocabulary, 15 pages about grammar and 74 empty pages for your own notes. Every topic includes two pages, the left pages contain all the most important words and phrases in French and the right pages are empty so that you can add all the words and phrases that you learn. You will learn more than 3000+ unique words and 600+ phrases from the left pages. After filling all the empty pages with your own notes you could reach a total amount of even 5000-6000 words. Use this notebook as the center of your French or English studies and gather all the most important vocabulary within the pages of this notebook. Use it together with other learning resources like applications, text books, French classes or whatever you like and always add the words and phrases that you have learned in this notebook.

This SpringerBriefs is an overview of the emerging field of wireless access and mobile network virtualization. It provides a clear and relevant picture of the current virtualization trends in wireless technologies by summarizing and

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comparing different architectures, techniques and technologies applicable to a future virtualized wireless network infrastructure. The readers are exposed to a short walkthrough of the future Internet initiative and network virtualization technologies in order to understand the potential role of wireless virtualization in the broader context of next-generation ubiquitous networks. Three main wireless virtualization perspectives are explored, along with the potential challenges and requirements of a sustainable wireless virtualization framework. Finally, it presents an example of a multi-perspective wireless virtualization framework. The readers learn the latest concepts in the application of wireless virtualization as well as its relationship with cutting-edge wireless technologies such as software-defined radio (SDR) and cognitive radio.

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This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Wired/Wireless Internet Communication, WWIC 2014, held in Paris, France, during May 27-28, 2014. The 22 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on wireless and wired networks; resource management and next generation services; next generation services, network architecture and applications.

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the Louvre, Centre Pompidou and Eiffel Tower, to hidden gems, including the museums of the Marais and the cemetery of Montparnasse. This will save you time, and enhance your exploration of this thrilling city. · Compact, concise, and packed with essential information, this is an iconic on-the-move companion when you're exploring Paris · Covers Top Ten Attractions, including the Arc de Triomphe, Notre-Dame and the Musée d'Orsay and Perfect Day itinerary suggestions · Includes an insightful overview of landscape, history and culture · Handy colour maps on the inside cover flaps will help you find your way around · Essential practical information on everything from Eating Out to Getting Around · Inspirational colour photography throughout · Sharp design and colour-coded sections make for an engaging reading experience About Berlitz: Berlitz draws on years of travel and language expertise to bring you a wide range of travel and language products, including travel guides, maps, phrase books, language-learning courses, dictionaries and kids' language products.

This book surveys state-of-the-art optimization modeling for design, analysis, and management of wireless networks, such as cellular and wireless local area networks (LANs), and the services they deliver. The past two decades have seen a tremendous growth in the deployment and use of wireless networks. The current-generation wireless systems can provide mobile users with high-speed

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data services at rates substantially higher than those of the previous generation. As a result, the demand for mobile information services with high reliability, fast response times, and ubiquitous connectivity continues to increase rapidly. The optimization of system performance has become critically important both in terms of practical utility and commercial viability, and presents a rich area for research. In the editors' previous work on traditional wired networks, we have observed that designing low cost, survivable telecommunication networks involves extremely complicated processes. Commercial products available to help with this task typically have been based on simulation and/or proprietary heuristics. As demonstrated in this book, however, mathematical programming deserves a prominent place in the designer's toolkit. Convenient modeling languages and powerful optimization solvers have greatly facilitated the implementation of mathematical programming theory into the practice of commercial network design. These points are equally relevant and applicable in today's world of wireless network technology and design. But there are new issues as well: many wireless network design decisions, such as routing and facility/element location, must be dealt with in innovative ways that are unique and distinct from wired (fiber optic) networks. The book specifically treats the recent research and the use of modeling languages and network optimization techniques that are playing

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particularly important and distinctive roles in the wireless domain.

The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business.

The Perfect Reference for the Multitasked SysAdmin The Microsoft Windows Vista operating system offers several changes and improvements over its predecessors. It not only brings a new and redesigned interface, but also improves on many administrative utilities and management consoles. It also enhances the system's reliability, performance, and problem-solving tools. As administrators, Vista will sometimes look like its predecessor, Windows XP, and at other times, look like an all-new operating system. How to Cheat will help you

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get Vista up and running as quickly and safely as possible and provide you with a solid idea of all the important changes and improvements the new Microsoft Vista OS has to offer. In the book you will:

- * Automate Windows Vista Installation See how Windows installations can be automated for large-scale deployments using the Windows Automated Installation Kit (WAIK).
- * Install and Maintain Devices Windows Vista contains device drivers for hundreds of PnP devices, and the Device Manager snap-in is the main utility on a local computer for managing them.
- * Customize Appearances, Taskbars, and Toolbars See how to use a personalization page, use the taskbar, and customize desktop themes.
- * Manage File System Formats, Partitions, and Volumes Learn how Windows Vista supports basic and dynamic volumes and two partition styles: MBR and GPT.
- * Increase File System Performance Learn how using tools such as disk defragging, cluster size adjustment, removing short filename support, and compression can help with performance.
- * Administer via Remote Remote Desktop and Windows Firewall can help administrators perform administrative tasks on remote computers.
- * Managing Services The Services utility allows you to view the status of services, as well as to disable nonessential services.
- * Configure TCP/IP in Vista See how to configure TCP/IP (both IPv4 and IPv6) via the user interface or via the netsh command.
- * See What's New with Wireless in

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Vista Understand wireless security and learn how to install a wireless network. * Optimize Windows Startup, the Hard Disk, and More Optimize memory, applications, and the network connection, and see how to monitor performance. Contents Include Introducing and Installing Microsoft Vista Installing and Maintaining Hardware Devices and Drivers Customizing Desktop Properties Managing File Systems and Disks General Administration Tasks Managing Local Networking Essentials Managing the Wireless World and Its Security Managing Security Essentials Securing User Access Tuning for Better Performance Troubleshooting Provides the multi-tasked SysAdmin with the essential information needed to perform the daily tasks Covers the major new release of Windows, which will create significant challenges for IT managers Emphasizes best-practice security measures

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save you time, and enhance your exploration of this thrilling region. - Compact, concise, and packed with essential information, this is an iconic on-the-move companion when you're exploring the French Riviera - Covers Top Ten Attractions and Perfect Day itinerary suggestions, including the Plage de Pampelonne in St Tropez, Matisse's Chapelle du Rosaire, modernist Villa Noailles and the impressive Massif d'Esterel Nifty new bi-lingual dictionary section makes this the perfect portable package for short trip travellers Includes an insightful overview of landscape, history and culture - Handy colour maps on the inside cover flaps will help you find your way around - Essential practical information on everything from Eating Out to Getting Around - Inspirational colour photography throughout - Sharp design and colour-coded sections make for an engaging reading experience About Berlitz: Berlitz draws on years of travel and language expertise to bring you a wide range of travel and language products, including travel guides, maps, phrase books, language-learning courses, dictionaries and kids' language products.

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