

## Qos Enabled Networks By Miguel Barreiros

The refereed proceedings of the IFIP/ACM International Conference on Distributed Systems Platforms, Middleware 2003, held in Rio de Janeiro, Brazil in June 2003. The 25 revised full papers presented were carefully reviewed and selected from 158 submissions. The papers are organized in topical sections on peer-to-peer computing, publish-subscribe middleware, adaptability and context-awareness, web-based middleware, and mobile and ubiquitous computing.

This book constitutes the refereed proceedings of the 7th International Conference on Smart City and Informatization, iSCI 2019, held in Guangzhou, China, in November 2019. The volume presents 52 full papers, which were carefully reviewed and selected from 139 submissions. The papers are organized in topical sections on Internet of Things (IoT) and smart sensing; urban computing and big data; smart society informatization technologies; cloud/edge/fog computing for smart city; applications for smart city informatization; assistive engineering and information technology; cyberspace security; blockchain and applications.

Third edition of this best-selling guide to IMS: fully revised, and updated with brand new material The IMS (IP Multimedia Subsystem) is the technology that merges the Internet with the cellular world. It makes Internet technologies such as the web, email, instant messaging, presence, and videoconferencing available nearly everywhere at any time. The third edition of this bestselling book is fully updated and provides comprehensively expanded content, including new chapters on emergency calls and on Voice Call Continuity (VCC). As well as this, The 3G IP Multimedia Subsystem (IMS) presents updated material including a comprehensive picture of Session Initiation Protocol (SIP) as well as its applicability to IMS. As most of the protocols have been designed in the IETF, this book explains how the IETF developed these protocols and describes how these protocols are used in the IMS architecture. This is an indispensable guide for engineers, programmers, business managers, marketing representatives and technically aware users who want to understand how the IMS works and explore the business model behind it. New chapters on emergency calls, Voice Call Continuity (VCC), service configuration (XCAP, XDM), and conferencing Fully updated throughout, including Policy and Charging Control (PCC), QoS, Presence, Instant Messaging, Multimedia Telephony Services, and Push-to-talk over Cellular (PoC) Describes the IP Multimedia Subsystem from two different perspectives: from the IETF perspective, and from the 3GPP perspective. Provides details on the latest policy technology and security architecture Written by experienced professionals in the field.

QoS, short for "quality of service, is one of the most important goals a network designer or administrator will have. Ensuring that the network runs at optimal precision with data remaining accurate, traveling fast, and to the correct user are the main objectives of QoS. The various media that fly across the network including voice, video, and data have different idiosyncrasies that try the dimensions of the network. This malleable network architecture poses an always moving potential problem for the network professional. The authors have provided a comprehensive treatise on this subject. They have included topics such as traffic engineering, capacity planning, and admission control. This book provides real world case studies of QoS in multiservice networks. These case studies remove the mystery behind QoS by illustrating the how, what, and why of implementing QoS within networks. Readers will be able to learn from the successes and failures of these actual working designs and configurations. Helps readers understand concepts of IP QoS by presenting clear descriptions of QoS components, architectures, and protocols Directs readers in the design and deployment of IP QoS networks through fully explained examples of actual working designs Contains real life case studies which focus on implementation

This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, ICSOC/ServiceWave 2009, held in Stockholm, Sweden, in November 2009. The book includes papers of workshops on trends in enterprise architecture research (TEAR 2009), SOA, globalization, people, and work (SG-PAW), service oriented computing in logistics (SOC-LOG), non-functional properties and service level agreements management in service oriented computing (NFPSLAM-SOC 09), service monitoring, adaptation and beyond (MONA+), engineering service-oriented applications (WESOA09), and user-generated services (UGS2009). The papers are organized in topical sections on business models and architecture; service quality and service level agreements track; and service engineering track.

The 3G IP Multimedia Subsystem (IMS): Merging the Internet and the Cellular Worlds, Second Edition is an updated version of the best-selling guide to this exciting technology that will merge the Internet with the cellular world, ensuring the availability of Internet technologies such as the web, email, instant messaging, presence and videoconferencing nearly everywhere. In this thoroughly revised overview of the IMS and its technologies, goals, history, vision, the organizations involved in its standardization and architecture, the authors first describe how each technology works on the Internet and then explain how the same technology is adapted to work in the IMS, enabling readers to take advantage of any current and future Internet service. Key features of the Second Edition include: New chapter on Next Generation Networks, including an overview on standardization, the architecture, and PSTN/ISDN simulation services. Fully updated chapter on the Push-to-talk over Cellular (PoC) service, covering the standardization in the Open Mobile Alliance (OMA), architecture, PoC session types, user plane, and the Talk Burst Control Protocol. Several expanded sections, including discussion of the role of the Open Mobile Alliance in the standardization process, IPv4 support in IMS, a description of the IMS Application Layer Gateway and the Transition Gateway, and a description of the presence data model. Updated material on the presence service, session-based instant messages with the Message Session Relay Protocol (MSRP), and the XML Configuration Access Protocol (XCAP). Supported by a companion website on which instructors and lecturers can find electronic versions of the figures. Engineers, programmers, business managers, marketing representatives, and technically aware users will all find this to be an indispensable guide to IMS and the business model behind it.

"This book is designed to provide readers with relevant theoretical frameworks and latest technical and institutional solutions for transcoding multimedia in mobile and wireless networks"--Provided by publisher.

Written by two experts in the field who deal with QOS predicaments every day and now in this 2nd edition give special attention to the realm of Data Centers, em style="mso-bidi-font-style: normal;"QoS Enabled Networks:Tools and Foundations, 2nd Edition provides a lucid understanding of modern QOS theory mechanisms in packet networks and how to apply them in practice.

This book focuses on the tools and foundations of QoS providing the knowledge to understand what benefits QoS offers and what can be built on top of it.

This book is open access under a CC BY 4.0 license. This book constitutes the refereed proceedings of the 11th IFIP WG 6.6 International Conference on Autonomous Infrastructure, Management, and Security, AIMS 2017, held in Zurich, Switzerland, in July 2017. The 8 full papers presented together with 11 short papers were carefully reviewed and selected from 24 submissions. The papers are organized in the following topical sections: security management; management of cloud environments and services, evaluation and experimental study of rich network services; security, intrusion detection, and configuration; autonomic and self-management solutions; and methods for the protection of infrastructure.

Peer-to-Peer (P2P) networks enable users to directly share digital content (such as audio, video, and text files) as well as real-time data (such as telephony traffic) with other users without depending on a central server. Although originally popularized by unlicensed online music services such as Napster, P2P networking has recently emerged as a viable multimillion dollar business model for the distribution of information, telecommunications, and social networking. Written at an accessible level for any reader familiar with fundamental Internet protocols, the book explains the conceptual operations and architecture underlying basic P2P systems using well-known commercial systems as models and also provides the means to improve upon these models with innovations that will better performance, security, and flexibility. Peer-to-Peer Networking and Applications is thus both a valuable starting point and an important reference to those practitioners employed by any of the 200 companies with approximately \$400 million invested in this new and lucrative technology. Uses well-known commercial P2P systems as models, thus demonstrating real-world applicability. Discusses how current research trends in wireless networking, high-def content, DRM, etc. will intersect with P2P, allowing readers to account for future developments in their designs. Provides online access to the Overlay Weaver P2P emulator, an open-source tool that supports a number of peer-to-peer applications with which readers can practice.

Mobile ad-hoc networks have attracted considerable attention and interest from the commercial sector as well as the standards community. Many new ad-hoc networking applications have been conceived to help enable new commercial and personal communication beyond the domain of tactical networks, including personal area networking, home networking, law enforcement operations, search and rescue operations, commercial and educational applications, and sensor networks. Emerging Technologies in Wireless Ad-hoc Networks: Applications and Future Development provides the rationale, state-of-the-art studies and practical applications, proof-of-concepts, experimental studies, and future development on the use of emerging technologies in wireless ad-hoc networks. In addition, this work explores emerging wireless ad hoc technologies based on communication coverage areas: body sensor networks, personal area networks, local area networks, and metropolitan area networks and their applications in critical sectors, for example, agriculture, environment, public health and public transportation.

Provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields. For the average Internet consumer, as well as for experts in the field of networking and Internet technologies.

This book constitutes the refereed proceedings of two International Workshops held as parallel events of the 16th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, in Neos Marmaras, Greece, in June 2020: the 9th Mining Humanistic Data Workshop, MHDW 2020, and the 5th Workshop on 5G-Putting Intelligence to the Network Edge, 5G-PINE 2020.\* The 6 full papers and 3 short papers presented at MHDW 2020 were carefully reviewed and selected from 16 submissions; out of the 23 papers submitted to 5G-PINE 2020, 11 were accepted as full papers and 1 as a short paper. The MHDW papers focus on topics such as recommendation systems, sentiment analysis, pattern recognition, data mining, and time series. The papers presented at 5G-PINE focus on the latest AI applications in the telecommunication industry and deal with topics such as the Internet of Things, intelligence fusion in 5G networks, and 5G media. \*The workshops were held virtually due to the COVID-19 pandemic.

The field of artificial economics (AE) embraces a broad range of methodologies relying on computer simulations in order to model and study the complexity of economic and social phenomena. The overarching principle of AE is the analysis of aggregate properties of artificial economies populated by adaptive agents that are equipped with behavioural rules and specific individual targets. These aggregate properties are neither foreseen nor intended by the artificial agents; conversely they are emerging characteristics of such artificially simulated systems. The book presents a peer-reviewed collection of papers addressing a variety of issues related to macroeconomics, industrial organization, networks, management and finance, as well as purely methodological issues.

This book focuses on one of the most exciting aspects of the Internet: the broadcasting of multimedia content. It draws together research from projects by some of the most active and prominent research groups and individuals working in this field across the world. The text explores multimedia webcast issues such as quality technology and interface. It will be of particular interest to research groups and students in the field of internet technology, technical specialists in networks and telematics, and computer scientists involved in event broadcasts and remote skills transfer. The book is one of the first titles in our new series, Computer Communications and Networks.

[Administration (référence électronique) ; informatique].

This volume presents the proceedings of the 11th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS 2008), which was held on Samos, Greece during September 22–26 as part of the 4th International Week on Management of Networks and Services (Manweek 2008). As in the previous three years, the Manweek umbrella - lowed an international audience of researchers and scientists from industry and academia – who are researching and developing management systems – to share views and ideas and present their state-of-the-art results. The other events co-located with Manweek 2008 were the 19th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2008), the 8th IEEE Workshop on IP Operations and Management (IPOM2008), the Third IEEE International Workshop on Modeling Autonomic Communications Environments (MACE2008), the 4th IEEE/IFIP International Workshop on End-to-End Virtualization and Grid Management (EVGM 2008) and the 5th International Workshop on Next-Generation Networking Middleware (NGNM 2008). Under this umbrella, MMNS again proved itself as a top public venue for dissemination of results and intellectual collaboration with special emphasis on the management of emerging mobile and wireless networks. The objective of the conference is to bring together researchers and scientists from academia and industry interested in state-of-the-art management of converged multimedia networks and services across heterogeneous networking infrastructures.

Wireless sensor networks are penetrating our daily lives, and they are starting to be deployed even in an industrial environment. The research on such industrial wireless sensor networks (IWSNs) considers more stringent requirements of robustness, reliability, and timeliness in each network layer. This Special Issue presents the recent research result on industrial wireless sensor networks. Each paper in this Special Issue has unique contributions in the advancements of industrial wireless sensor network research and we expect each paper to promote the relevant research and the deployment of IWSNs.

This book constitutes the refereed post-conference proceedings of the 11th International Conference on Broadband Communications, Networks, and Systems, Broadnets 2020, which took place in Qingdao, China, in December 2020. The 13 full papers presented were carefully reviewed and selected from 32 submissions. The papers are thematically grouped as a session on wireless network and security and a session on communication quality.

A state-of-the-art guide to middleware technologies, and their pivotal role in communications networks. Middleware is about integration and interoperability of applications and services running on heterogeneous computing and communications devices. The services it provides - including identification, authentication, authorization, soft-switching, certification and security - are used in a vast range of global appliances and systems, from smart cards and wireless devices to mobile services and e-Commerce. Qusay H. Mahmoud has created an invaluable reference tool that explores the origins and current uses of middleware (highlighting the importance of such technologies as CORBA, J2EE and JMS) and has thus compiled the roadmap to future research in this area. Middleware for Communications: discusses the emerging fields of Peer-to-Peer (P2P) and grid middleware detailing middleware platforms such as JXTA and the Globus middleware toolkit. shows how Middleware will play a significant role in mobile computing. presents a Platform Supporting Mobile Applications (PLASMA) - a middleware platform that consists of components for location, event, and profile handling of Location-Based Services. introduces middleware security focusing on the appropriate aspects of CORBA, J2EE, and .NET and demonstrates how to realize complex security capabilities such as role-based access control (RBAC) and mandatory access control (MAC). discusses how Quality of Service (QoS) component middleware can be combined with Model Driven Architecture (MDA) technologies to rapidly develop, generate, assemble and deploy flexible communications applications. This incomparable overview of middleware for communications is suitable for graduate students and researchers in communications and computing departments. It is also an authoritative guide for engineers and developers working on distributed systems, mobile computing and networked appliances.

With the increased functionality demand for mobile speed and access in our everyday lives, broadband wireless networks have emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book's practical applications and relevant studies.

With a foreword by Kannan Kothandaraman "This is the first book about QOS that I actually enjoyed reading precisely because the authors focused on real-life QoS and not in academic discussions about it." Per Nihlen, IP Network Manager, NORDUnet The new authoritative, practical guide to delivering QOS guarantees This new benchmark in quality of service (QOS) study is written by two experts in the field who deal with QOS predicaments every day. The authors not only provide a lucid understanding of modern theory of QOS mechanisms in packet networks but how to apply them in practice. In addition, they detail the QOS management features found in modern routers used by Internet Service Providers (ISPs) and large enterprise companies and networks, all in an effort to enable network managers and engineers to configure production networks with a quality of service guarantee. The book's focus on addressing network behavior ("real effects") in relation to the configuration of network elements (routers and switches), is both refreshing and insightful. QOS-Enabled Networks contains up-to-date coverage of: QOS mechanisms in packet networks and how to apply them in practice QOS management features now common in modern-day routers How network behavior is related to configuration of network elements Layer 2 VPN and QOS QOS in mobile LTE networks QOS-Enabled Networks is an invaluable guide for networking engineers needing to provide QOS services for service providers, ISPs and large enterprises, as well as for network design and operations engineers.

This volume contains the proceedings of the Fourth IFIP International Conference on Network Control and Engineering for QoS, Security and Mobility, NETCON 2005. The conference, organized by the International Federation for Information Processing, was held in Lannion, France from November 14-18, 2005. Coverage explores network security, network policy, quality of service, wireless networks, intelligent networks, and performance evaluation.

"Here at last is a single, all-encompassing resource where the myriad applications sharpen into a comprehensible text." Kireeti Kompella, Juniper Fellow, Juniper Networks. The authoritative guide to MPLS, now in its second edition, fully updated with brand new material! Multiprotocol Label Switching (MPLS) is now considered the networking technology for carrying all types of network traffic, including voice telephony, real-time video, and data traffic. In MPLS-Enabled Applications, the Second Edition, the authors methodically show how MPLS holds the key to network convergence by allowing operators to offer more services over a single physical infrastructure. The Second Edition contains more than 150 illustrations, new chapters, and more coverage, guiding the reader from the basics of the technology, including signaling protocols, traffic engineering and fast reroute, though all its major applications. MPLS Enabled-Applications, Second Edition, contains comprehensive up-to-date coverage of: the current status and the future potential of all major MPLS applications, including L3VPNs (Layer 3 Virtual Private Networks), L2VPNs (Layer 2 Virtual Private Networks), pseudowires and VPLS . (Virtual Private LAN Service). extensive discussion of multicast support over MPLS, including a new chapter dedicated to multicast in VPNs, explaining both the PIM/GRE (Protocol Independent Multicast / Generic Routing Encapsulation) and the next generation BGP/MPLS solutions, new material on support of multicast in VPLS, a much-expanded chapter on MPLS multicast and a section perations and management (OAM) tools for point-to-multipoint LSPs. a new chapter on MPLS in access networks, as well as coverage of the use of MPLS in mobile and data communication networks. interoperation of LDP(Label Distribution Protocol) and BGP (Border Gateway Protocol) based VPLS. comprehensive coverage of the base technology, as well as the latest IETF drafts With a foreword by Yakov Rekhter

This guide to multicasting routing explains the complexities of this growing technology. It provides an overview of the current state of development, analyzes its relevant protocols, and shows how they work together. Real-world examples illustrate key concepts. Specific topics include: PIM-SM and MSDP, Any-Source and Source-Specific delivery models, building dedicated multicast environments, and IGMP and its various versions. A glossary defines key terms and important acronyms. The authors are engineers and technical writers. Annotation copyrighted by Book News, Inc., Portland, OR

In the event of large crises (earthquakes, typhoons, floods, ...), a primordial task of the fire and rescue services is the search for human survivors on the incident site. This is a complex and dangerous task, which - too often - leads to loss of lives among the human crisis managers themselves. This book explains how unmanned search can be added to the toolkit of the search and rescue workers, offering a valuable tool to save human lives and to speed up the search and rescue process. The introduction of robotic tools in the world of search and rescue is not straightforward, due to the fact that the search and rescue context is extremely technology-unfriendly, meaning that very robust solutions, which can be deployed extremely quickly, are required. Multiple research projects across the world are tackling this problem and in this book, a special focus is placed on showcasing the results of the European Union ICARUS project on this subject. The ICARUS project proposes to equip first responders with a comprehensive and integrated set of unmanned search and rescue tools, to increase the situational awareness of human crisis managers, so that more work can be done in a shorter amount of time. The ICARUS tools consist of assistive unmanned air, ground, and sea vehicles, equipped with victim-detection sensors. The unmanned vehicles collaborate as a coordinated team, communicating via ad hoc cognitive radio networking. To ensure optimal human-robot collaboration, these tools are seamlessly integrated into the command and control equipment of the human crisis managers and a set of training and support tools is provided to them in order to learn to use the ICARUS system. The research leading to these results has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement number 285417. The publishing of this book was funded by the EC FP7 Post-Grant Open Access Pilot programme.

QOS-Enabled Networks Tools and Foundations John Wiley & Sons

The major subjects of the book cover modeling, analysis and efficient management of information in Internet of Everything (IoE) applications and architectures. As the first book of its kind, it addresses the major new technological developments in the field and will reflect current research trends, as well as industry needs. It comprises of a good balance between theoretical and practical issues, covering case studies, experience and evaluation reports and best practices in utilizing IoE applications. It also provides technical/scientific information about various aspects of IoE technologies, ranging from basic concepts to research grade material, including future directions.

This book constitutes the joint refereed proceedings of the 5th COST264 International Workshop on Networked Group Communications, NGC 2003, and the 3rd International Workshop on Internet Charging and QoS Technologies, ICQT 2003, held in Munich, Germany, in September 2003. The 25 revised full papers and 6 revised short papers presented were carefully reviewed and selected from a total of 78 submissions. The papers are organized in topical sections on application multicast support, anycast and search in peer-to-peer networks, peer-to-peer systems, security and multicasting, multicast mechanisms, control algorithms, multicast pricing and traffic, routing and economics, and pricing and resource management.

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

This book constitutes the joint refereed proceedings of the 5th International Workshop on Quality of Future Internet Services, QofIS 2004, the First International Workshop on QoS Routing, WQoS 2004, and the 4th International Workshop on Internet Charging and QoS Technology, ICQT 2004, held in Barcelona, Spain, in September/October 2004. The 38 revised full papers presented were carefully reviewed and selected from a total of around 140 submissions. The papers are organized in topical sections on Internet applications, local area and ad-hoc wireless networks, service differentiation and congestion control, traffic engineering and routing, enforcing mobility, algorithms and scalability for service routing, novel ideas and protocol enhancements, auctions and game theory, charging in mobile networks, and QoS provisioning and monitoring.

Businesses in today's world are adopting technology-enabled operating models that aim to improve growth, revenue, and identify emerging markets. However, most of these businesses are not suited to defend themselves from the cyber risks that come with these data-driven practices. To further prevent these threats, they need to have a complete understanding of modern network security solutions and the ability to manage, address, and respond to security breaches. The Handbook of Research on Intrusion Detection Systems provides emerging research exploring the theoretical and practical aspects of prominent and effective techniques used to detect and contain breaches within the fields of data science and cybersecurity. Featuring coverage on a broad range of topics such as botnet detection, cryptography, and access control models, this book is ideally designed for security analysts, scientists, researchers, programmers, developers, IT professionals, scholars, students, administrators, and faculty members seeking research on current advancements in network security technology.

Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium will be of interest to network designers, developers, and operators. This book is a collection of papers given at the European Cost Telecommunications Symposium. The Symposium was broken down into four sessions: Modelling and Simulation. Teletraffic Modelling. Communications Networks Simulation. Problems in Simulation. Each session addressed a wide spectrum of subjects. The symposium covered nearly all of the important aspects of simulation modeling and tools for the design and performance evaluation of communication techniques and systems. Emerging techniques were emphasized. Modeling and Simulation Environment for Satellite and Terrestrial Communications Networks: Proceedings of the European COST Telecommunications Symposium is a useful reference work for practicing engineers and academic researchers.

Cloud computing has created a shift from the use of physical hardware and locally managed software-enabled platforms to that of virtualized cloud-hosted services. Cloud assembles large networks of virtual services, including hardware (CPU, storage, and network) and software resources (databases, message queuing systems, monitoring systems, and load-balancers). As Cloud continues to revolutionize applications in academia, industry, government, and many other fields, the transition to this efficient and flexible platform presents serious challenges at both theoretical and practical levels—ones that will often require new approaches and practices in all areas. Comprehensive and timely, Cloud Computing: Methodology, Systems, and Applications summarizes progress in state-of-the-art research and offers step-by-step instruction on how to implement it. Summarizes Cloud Developments, Identifies Research Challenges, and Outlines Future Directions Ideal for a broad audience that includes researchers, engineers, IT

professionals, and graduate students, this book is designed in three sections: Fundamentals of Cloud Computing: Concept, Methodology, and Overview Cloud Computing Functionalities and Provisioning Case Studies, Applications, and Future Directions It addresses the obvious technical aspects of using Cloud but goes beyond, exploring the cultural/social and regulatory/legal challenges that are quickly coming to the forefront of discussion. Properly applied as part of an overall IT strategy, Cloud can help small and medium business enterprises (SMEs) and governments in optimizing expenditure on application-hosting infrastructure. This material outlines a strategy for using Cloud to exploit opportunities in areas including, but not limited to, government, research, business, high-performance computing, web hosting, social networking, and multimedia. With contributions from a host of internationally recognized researchers, this reference delves into everything from necessary changes in users' initial mindset to actual physical requirements for the successful integration of Cloud into existing in-house infrastructure. Using case studies throughout to reinforce concepts, this book also addresses recent advances and future directions in methodologies, taxonomies, IaaS/SaaS, data management and processing, programming models, and applications.

Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies.

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

This book constitutes the thoroughly refereed proceedings of the Second International Conference, GreeNets 2012, held in Gaudia, Spain, in October 2012. The 11 revised full papers presented were carefully selected and reviewed. These papers represent 23.68% of the submissions and cover topics such as communications and networking, energy-efficient network architecture and protocols, systems and technologies, and energy-efficient management.

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