

# The Internet as a Large-Scale Complex System

Edited by  
Kihong Park  
Walter Willinger



A VOLUME IN THE  
SANTA FE INSTITUTE STUDIES IN THE SCIENCES OF COMPLEXITY

# Internet As A Large Scale Complex System

**Leonard Barolli, Hiroaki  
Nishino, Hiroyoshi Miwa**



## **Internet As A Large Scale Complex System:**

*The Internet as a Large-scale Complex System* Kihong Park, Walter Willinger, 2005 This volume contains a snapshot of some features of the Internet that may be fruitfully approached using a complex systems perspective meaning using interdisciplinary tools and methods to tackle the subject area

**Large-Scale Computing Techniques for Complex System Simulations** Werner Dubitzky, Krzysztof Kurowski, Bernard Schott, 2012-02-03 Complex systems modeling and simulation approaches are being adopted in a growing number of sectors including finance economics biology astronomy and many more Technologies ranging from distributed computing to specialized hardware are explored and developed to address the computational requirements arising in complex systems simulations The aim of this book is to present a representative overview of contemporary large scale computing technologies in the context of complex systems simulations applications The intention is to identify new research directions in this field and to provide a communications platform facilitating an exchange of concepts ideas and needs between the scientists and technologist and complex system modelers On the application side the book focuses on modeling and simulation of natural and man made complex systems On the computing technology side emphasis is placed on the distributed computing approaches but supercomputing and other novel technologies are also considered

*Large Scale Networks* Radu Dobrescu, Florin Ionescu, 2016-10-03 This book offers a rigorous analysis of the achievements in the field of traffic control in large networks oriented on two main aspects the self similarity in traffic behaviour and the scale free characteristic of a complex network Additionally the authors propose a new insight in understanding the inner nature of things and the cause and effect based on the identification of relationships and behaviours within a model which is based on the study of the influence of the topological characteristics of a network upon the traffic behaviour The effects of this influence are then discussed in order to find new solutions for traffic monitoring and diagnosis and also for traffic anomalies prediction Although these concepts are illustrated using highly accurate highly aggregated packet traces collected on backbone Internet links the results of the analysis can be applied for any complex network whose traffic processes exhibit asymptotic self similarity perceived as an adaptability of traffic in networks However the problem with self similar models is that they are computationally complex Their fitting procedure is very time consuming while their parameters cannot be estimated based on the on line measurements In this aim the main objective of this book is to discuss the problem of traffic prediction in the presence of self similarity and particularly to offer a possibility to forecast future traffic variations and to predict network performance as precisely as possible based on the measured traffic history

**Computing and Combinatorics** Guohui Lin, 2007-08-18 The Annual International Computing and Combinatorics Conference is an annual forum for exploring research development and novel applications of computing and combinatorics It brings together researchers professionals and industrial practitioners to interact and exchange knowledge ideas and progress The topics cover most aspects of theoretical computer science and combinatorics related to computing The 13th

Annual International Computing and Com natorics Conference COCOON 2007 was held in Ban Alberta during July 16 19 2007 This was the rst time that COCOON was held in Canada We received 165 submissions among which 11 were withdrawn for various reasons The remaining 154 submissions under full consideration came from 33 countries and regions Australia Brazil Canada China the Czech Republic Denmark Finland France Germany Greece Hong Kong India Iran Ireland Israel Italy Japan the Netherlands Norway Pakistan Poland Romania R sia Slovakia South Korea Spain Sweden Switzerland Taiwan Turkey the UK the USA and the US minor outlying islands After a six week period of careful reviewing and discussions the program committee accepted 51 submissions for oral presentation at the conference Based on the a liations 1 08 of the accepted papers were from Australia 7 67 from Canada 3 08 from China 1 from the Czech Republic 2 from Denmark 1 from France 5 42 from Germany 0 08 from Greece 2 18 from Hong Kong 0 33 from India 0 17 from Ireland 1 83 from Israel 1 5 from Italy 2 9 from Japan 0 17 from the Netherlands 2 67 from Norway 0

Application of Big Data, Blockchain, and Internet of Things for Education Informatization Yinjun Zhang, Nazir Shah, 2024-06-30 The five volume set LNICST 580 584 constitutes the proceedings of the Third EAI International Conference on Application of Big Data Blockchain and Internet of Things for Education Informatization BigIoT EDU 2023 held in Liuzhou China during August 29 31 2023 The 272 full papers presented in these proceedings were carefully reviewed and selected from 718 submissions With a primary focus on research fields such as Digitization of education Smart classrooms and Massive Online Open Courses MOOCs these papers are organized in the following topical sections across the five volumes Part I Application of data mining in smart education Application of intelligent algorithms in English teaching Part II Application of decision tree algorithm in intelligent management system of universities Research on the application of Big data in smart teaching Part III Exploration of the application of computer aided technology in intelligent translation Application of neural network algorithms in intelligent teaching Application of artificial intelligence algorithms in the field of smart education Part IV Research on smart teaching in deep learning Research and application of recommendation algorithms in personalized intelligent education Application of cloud computing in intelligent teaching resource library Application research of computer aided online intelligent teaching Part V Application and practice of new media in smart teaching Application of clustering algorithm in intelligent education resource library Application of association rule algorithm in intelligent education system

*Transactions on Large-Scale Data- and Knowledge-Centered Systems* XX Abdelkader Hameurlain, Josef Küng, Roland Wagner, Sherif Sakr, Lizhe Wang, Albert Zomaya, 2015-03-17 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed

applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 20th issue of Transactions on Large Scale Data and Knowledge Centered Systems presents a representative and useful selection of articles covering a wide range of important topics in the domain of advanced techniques for big data management Big data has become a popular term used to describe the exponential growth and availability of data The recent radical expansion and integration of computation networking digital devices and data storage has provided a robust platform for the explosion in big data as well as being the means by which big data are generated processed shared and analyzed In general data are only useful if meaning and value can be extracted from them Big data discovery enables data scientists and other analysts to uncover patterns and correlations through analysis of large volumes of data of diverse types Insights gleaned from big data discovery can provide businesses with significant competitive advantages leading to more successful marketing campaigns decreased customer churn and reduced loss from fraud In practice the growing demand for large scale data processing and data analysis applications has spurred the development of novel solutions from both industry and academia

*Advances in Intelligent Networking and Collaborative Systems* Leonard Barolli, Hiroaki Nishino, Hiroyoshi Miwa, 2019-08-14 This book presents the latest innovative research findings methods and development techniques related to intelligent social networks and collaborative systems intelligent networking systems mobile collaborative systems and secure intelligent cloud systems Offering both theoretical and practical perspectives it also reveals synergies among various paradigms in the multi disciplinary field of intelligent collaborative systems With the rapid development of the Internet we are experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm that places people at the very centre of networks making full use of their connections relations and collaboration Social networks also play a major role in the dynamics and structure of intelligent Web based networking and collaborative systems Virtual campuses communities and organizations strongly leverage intelligent networking and collaborative systems through a wide variety of formal and informal electronic relations such as business to business peer to peer and many types of online collaborative learning interactions including the emerging e learning systems This has resulted in entangled systems that need to be managed efficiently and autonomously In addition while the latest powerful technologies based on grid and wireless infrastructures as well as cloud computing are currently greatly enhancing collaborative and networking applications they are also facing new challenges The principal purpose of the research and development community is to stimulate research that will lead to the creation of responsive environments for networking and in the long term the development of adaptive secure mobile and intuitive intelligent systems for collaborative work and learning

*Computational Intelligence: A Compendium* John

Fulcher, L. C. Jain, 2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing

*Internet Of Everything: Key Technologies, Practical Applications And Security Of Iot* Hang Song, 2022-10-18 This book provides comprehensive coverage on the concepts frameworks and underpinning technologies in most aspects of the Internet of Things IoT and presents them as the foundation on which more advanced topics such as 5G and mMTC M2M Edge cloud computing and the modalities of Tactile IoT Industrial IoT IIoT Industry 4 0 Satellite IoT and Digital Twins DT could be built upon A key feature of the book is the chapter that focuses on security and privacy for individuals and IoT Industry 4 0 are discussed This book is a good reference guide for researchers developers integrators and stakeholders working on research in or development of IoT particularly where open source software are deployed

**On the Move to Meaningful Internet Systems: OTM 2010** Robert Meersman, Tharam Dillon, Pilar Herrero, 2010-10-29 This volume constitutes the refereed proceedings of 11 international workshops held as part of OTM 2010 in Hersonissos Greece in October 2010 The 68 revised full papers presented were carefully reviewed and selected from a total of 127 submissions to the workshops The volume starts with 14 poster papers of the OTM 2010 main conferences COOPIS 2010 DOA 2010 and OSBASE 2010 Topics of the workshop papers are adaption in service oriented architectures ambient intelligence and reasoning data integration approaches modeling in ADI web and enterprise data visualization enterprise integration and semantics industrial enterprise interoperability and networking process management in distributed information system development improving social networking ontology engineering master data management and metamodeling extensions to fact oriented modeling logic and derivation patterns in input data models

Internet of Things Vlasios Tsiatsis, Stamatias Karnouskos, Jan Holler, David Boyle, Catherine Mulligan, 2018-11-16 Internet of Things Technologies and Applications for a New Age of Intelligence outlines the background and overall vision for the Internet of Things IoT and Cyber Physical Systems CPS as well as associated emerging technologies Key technologies are described including device communication and interactions connectivity of devices to cloud based infrastructures distributed and edge computing data collection and methods to derive information and knowledge from connected devices and systems using artificial intelligence and machine learning Also included are system architectures and ways to integrate these with enterprise architectures and considerations on potential business impacts and regulatory requirements New to this edition Updated material on current market situation and outlook A description of the latest developments of standards alliances and consortia More specifically the creation of the Industrial Internet Consortium

IIC and its architecture and reference documents the creation of the Reference Architectural Model for Industrie 4.0 RAMI 4.0 the exponential growth of the number of working groups in the Internet Engineering Task Force IETF the transformation of the Open Mobile Alliance OMA to OMA SpecWorks and the introduction of OMA LightweightM2M device management and service enablement protocol the initial steps in the specification of the architecture of Web of Things WoT by World Wide Consortium W3C the GS1 architecture and standards the transformation of ETSI M2M to oneM2M and a few key facts about the Open Connectivity Forum OCF IEEE IEC ISO AIOTI and NIST CPS The emergence of new technologies such as distributed ledgers distributed cloud and edge computing and the use of machine learning and artificial intelligence for IoT A chapter on security outlining the basic principles for secure IoT installations New use case description material on Logistics Autonomous Vehicles and Systems of CPS Standards organizations covered IEEE 3GPP IETF IEC ISO Industrial Internet Consortium IIC ITU T GS1 Open Geospatial Consortium OGC Open Mobile Alliance OMA e.g. LightweightM2M Object Management Group OMG e.g. Business Process Modelling Notation BPMN oneM2M Open Connectivity Forum OCF W3C Key technologies for IoT covered Embedded systems hardware and software devices and gateways capillary networks local and wide area networking IoT data management and data warehousing data analytics and big data complex event processing and stream analytics control systems machine learning and artificial intelligence distributed cloud and edge computing and business process and enterprise integration In depth security solutions for IoT systems Technical explanations combined with design features of IoT and use cases which help the development of real world solutions Detailed descriptions of the architectures and technologies that form the basis of IoT Clear examples of IoT use cases from real world implementations such as Smart Grid Smart Buildings Smart Cities Logistics and Participatory Sensing Industrial Automation and Systems of CPS Market perspectives IoT evolution and future outlook

**Advances in Intelligent Networking and Collaborative Systems** Fatos Xhafa, Leonard Barolli, Michal Greguš, 2018-08-25 This book provides the latest research findings and discusses from both theoretical and practical perspectives innovative research methods and development techniques related to intelligent social networks and collaborative systems intelligent networking systems mobile collaborative systems and secure intelligent cloud systems It also presents the synergies among various paradigms in such a multi disciplinary field of intelligent collaborative systems With the rapid development of the Internet we are experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm which locates people at the very centre of networks and exploits the value of individuals connections relations and collaboration Social networks are also playing a major role in the dynamics and structure of intelligent Web based networking and collaborative systems Virtual campuses virtual communities and organizations strongly leverage intelligent networking and collaborative systems by means of a great variety of formal and informal electronic relations such as business to business peer to peer and various types of online collaborative learning interactions including the emerging e learning systems This has resulted in entangled

systems that need to be managed efficiently and autonomously In addition the latest powerful technologies based on grid and wireless infrastructure as well as cloud computing are currently enhancing collaborative and networking applications significantly but are also facing new issues and challenges The principal purpose of the research and development community is to stimulate research that will lead to the creation of responsive environments for networking and in the longer term the development of adaptive secure mobile and intuitive intelligent systems for collaborative work and learning

**Low-Power Wide Area Network for Large Scale Internet of Things** Mariyam Ouaisa, Mariya Ouaisa, Inam Ullah Khan, Zakaria Boulouard, Junaid Rashid, 2024-04-11 This book presents a comprehensive exploration of LPWANs delving into their fundamental concepts underlying technologies and the multifaceted challenges they tackle This book recognizes that LPWANs don't operate in isolation they are intimately intertwined with Artificial Intelligence and Machine Learning AI ML technologies which play a pivotal role in optimizing LPWAN performance and capabilities The book is a collection of original contributions regarding air interface transmission technologies and novel network architectures such as network slicing cloud fog edge computing ad hoc networks and software defined network Also this book provides a guide for researchers of IoT applications to choose suitable LPWAN technologies and describe the design aspects network architectures security issues and challenges Features Explains machine learning algorithms onto low power wide area network sensors for compressed communications Illustrates wireless based Internet of Things networks using low power wide area networks technology for quality air Presents cognitive Internet of Things networks using wireless communication and low power wide area network technologies for Ad Hoc networks Discusses a comprehensive study of low power wide area networks for flying Ad Hoc networks Showcases the study of energy efficient techniques aided by low power wide area network technologies for the Internet of Things networks The text is aimed at senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology Big Data and Internet of Things: A Roadmap for Smart Environments Nik Bessis, Ciprian Dobre, 2014-03-11

This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context aware data intensive applications and services The book is a state of the art reference discussing progress made as well as prompting future directions on the theories practices standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e science Apart from inter operable and inter cooperative aspects the book deals with a notable opportunity namely the current trend in which a collectively shared and generated content is emerged from Internet end users Specifically the book presents advances on managing and exploiting the vast size of data generated from within the smart environment i e smart cities towards an integrated collective intelligence approach The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the



data intensive applications The book contains 19 self contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities Section I Foundations and Principles Section II Advanced Models and Architectures Section III Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era

Internet of Things (IoT) in 5G Mobile Technologies Constandinos X. Mavromoustakis, George Mastorakis, Jordi Mongay Batalla, 2016-04-20 This book reports on the latest advances in the modeling analysis and efficient management of information in Internet of Things IoT applications in the context of 5G access technologies It presents cutting edge applications made possible by the implementation of femtocell networks and millimeter wave communications solutions examining them from the perspective of the universally and constantly connected IoT Moreover it describes novel architectural approaches to the IoT and presents the new framework possibilities offered by 5G mobile networks including middleware requirements node centrality and the location of extensive functionalities at the edge By providing researchers and professionals with a timely snapshot of emerging mobile communication systems and highlighting the main pitfalls and potential solutions the book fills an important gap in the literature and will foster the further developments of 5G hosting IoT devices

**Artificial Intelligence to Solve Pervasive Internet of Things Issues** Gurjit Kaur, Pradeep Tomar, Marcus Tanque, 2020-11-18 Artificial Intelligence to Solve Pervasive Internet of Things Issues discusses standards and technologies and wide ranging technology areas and their applications and challenges including discussions on architectures frameworks applications best practices methods and techniques required for integrating AI to resolve IoT issues Chapters also provide step by step measures practices and solutions to tackle vital decision making and practical issues affecting IoT technology including autonomous devices and computerized systems Such issues range from adopting mitigating maintaining modernizing and protecting AI and IoT infrastructure components such as scalability sustainability latency system decentralization and maintainability The book enables readers to explore discover and implement new solutions for integrating AI to solve IoT issues Resolving these issues will help readers address many real world applications in areas such as scientific research healthcare defense aeronautics engineering social media and many others Discusses intelligent techniques for the implementation of Artificial Intelligence in Internet of Things Prepared for researchers and specialists who are interested in the use and integration of IoT and Artificial Intelligence technologies

*Internet of Things, Smart Spaces, and Next Generation Networks and Systems* Olga Galinina, Sergey Andreev, Sergey Balandin, Yevgeni Koucheryavy, 2019-09-11 This book constitutes the joint refereed proceedings of the 19th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networks and Systems NEW2AN 2019 and the 12th Conference on

Internet of Things and Smart Spaces ruSMART 2019 The 66 revised full papers presented were carefully reviewed and selected from 192 submissions The papers of NEW2AN address various aspects of next generation data networks with special attention to advanced wireless networking and applications In particular they deal with novel and innovative approaches to performance and efficiency analysis of 5G and beyond systems employed game theoretical formulations advanced queuing theory and stochastic geometry while also covering the Internet of Things cyber security optics signal processing as well as business aspects ruSMART 2019 provides a forum for academic and industrial researchers to discuss new ideas and trends in the emerging areas The 12th conference on the Internet of Things and Smart Spaces ruSMART 2019 provides a forum for academic and industrial researchers to discuss new ideas and trends in the emerging areas **Self-organized Complexity in the Physical, Biological, and Social Sciences** Donald Lawson Turcotte, John Rundle, Hans Frauenfelder, 2002

*Managing Internet and Intranet Technologies in Organizations: Challenges and Opportunities* Dasgupta, Subhasish, 2000-07-01 This book provides a comprehensive treatment of Internet and intranet technologies electronic commerce and the management of these technologies within organizations It looks at both technical and organizational issues related to management of Internet and intranet technologies Technical issues covered in the book include intranet Internet infrastructure data warehousing and Web security and reliability Organizational topics include Internet and intranets for ERP and E business education and learning using Web technologies and approaches to virtual shopping Provided by publisher **Tactile Internet** Frank H. P. Fitzek, Shu-Chen Li, Stefanie Speidel, Thorsten Strufe, Meryem Simsek, Martin Reisslein, 2021-03-06 Tactile Internet with Human in the Loop describes the change from the current Internet which focuses on the democratization of information independent of location or time to the Tactile Internet which democratizes skills to promote equity that is independent of age gender sociocultural background or physical limitations The book promotes the concept of the Tactile Internet for remote closed loop human machine interaction and describes the main challenges and key technologies Current standardization activities in the field for IEEE and IETF are also described making this book an ideal resource for researchers graduate students and industry R D engineers in communications engineering electronic engineering and computer engineering Provides a comprehensive reference that addresses all aspects of the Tactile Internet technologies engineering challenges use cases and standards Written by leading researchers in the field Presents current standardizations surrounding the IETF and the IEEE Contains use cases that illustrate practical applications

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