

# Mptcp Linux Kernel Implementation Status

The four-volume set LNCS 11334-11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2018, held in Guangzhou, China, in November 2018. The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Distributed and Parallel Computing; High Performance Computing; Big Data and Information Processing; Internet of Things and Cloud Computing; and Security and Privacy in Computing.

This book constitutes the proceedings of the 7th International Conference on Wireless and Satellite Services, WiSATS 2015, held in Bradford, UK, in July 2015. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. As the scope of the conference widened to include wireless systems, the conference was renamed to WiSATS. The 29 revised papers were presented at the conference in three technical sessions and one special session on “ Network Coding for Satellites ” . WiSATS 2015 also hosted two workshops along with the main conference: The first

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workshop, Communication Applications in Smart Grid (CASG 2015), focused on the merging area of using communication technology within the electricity power grid for smart monitoring and control. The second workshop, Advanced Next-Generation Broadband Satellite Systems (BSS 2015), focused on the use of satellite systems for providing next-generation broadband services.

Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

This three-volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures. It guides readers through solving specific research and analytical problems to obtain useful knowledge and business

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value from the data. Each chapter provides an analysis of a specific technical problem, followed by the numerical analysis, simulation and implementation of the solution to the problem. The books constitute the refereed proceedings of the 2017 38th International Conference “ Information Systems Architecture and Technology, ” or ISAT 2017, held on September 17–19, 2017 in Szklarska Por ̄ba, Poland. The conference was organized by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management, Wroclaw University of Technology, Poland. The papers have been organized into topical parts: Part I— includes discourses on topics including, but not limited to, Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Discovery and Data Mining, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, and Service Oriented Computing. Part II—addresses topics including, but not limited to, System Modelling for Control, Recognition and Decision Support, Mathematical Modelling in Computer System Design, Service Oriented Systems and Cloud Computing and Complex Process Modeling. Part III—deals with topics including, but not limited to, Modeling of Manufacturing Processes, Modeling an Investment

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Decision Process, Management of Innovation, Management of Organization.

Mobile Networks and Management

NETWORKING 2011

7th International Workshop, TMA 2015, Barcelona, Spain, April 21-24, 2015. Proceedings

11th EAI International Conference, BROADNETS 2020, Qingdao, China, December 11-12, 2020, Proceedings

Proceedings of ICICCT 2019

Trends and Advances in Information Systems and Technologies

Proceedings of the 33rd International Conference on Advanced Information Networking and Applications (AINA-2019)

Traffic Monitoring and Analysis

Multipath TCP (MPTCP) is a new modification of TCP protocol which enables a client to transfer data over multiple paths simultaneously under a single TCP connection, for improved throughput and fault resilience. However, MPTCP is susceptible to some major drawbacks when applied in a wireless network. We found several cases where, despite improving individual MPTCP clients throughput, MPTCP reduces the capacity of the overall wireless network due to the mac level fairness and contention-based access schemes. Additionally, even if the bandwidth improves, employing Multipath TCP (MPTCP) in wireless networks can be energy inefficient due to

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additional energy consumption by multiple interfaces. This creates a dilemma between bandwidth improvement and energy efficiency. This thesis research aims to solve these important issues for MPTCP in the wireless environment. We analyzed the root cause of these drawbacks and identified instances where they can arise. Two novel schemes denoted MPWiFi and kMPTCP, are developed to solve the bandwidth degradation and energy efficiency issues respectively, while maintaining the promised benefits of MPTCP. The MPWiFi assigns different priorities to the subflows and aggressively suppresses some of them based on some design logic. Similarly, kMPTCP adds an additional multipath subflow only if the bandwidth requirement can't be fulfilled by single path and the new subflow meets the data rate and signal strength condition. Moreover, kMPTCP keeps additional subflows as long as the signal strength remains in good range and this subflow remain mandatory to provide the necessary bandwidth to the application. These two schemes have been implemented along with Linux Kernel MPTCP implementation. Extensive real-world deployment and NS3 simulation show that the proposed schemes can effectively alleviate the adverse impacts of the MPTCP based multipath access in wireless networks.

This two-volume set, CCIS 1453 and CCIS 1454, constitutes refereed proceedings of the 6th

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International Conference on Data Mining and Big Data, DMBD 2021, held in Guangzhou, China, in October 2021. The 57 full papers and 28 short papers presented in this two-volume set were carefully reviewed and selected from 258 submissions. The papers present the latest research on advantages in theories, technologies, and applications in data mining and big data. The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science, machine learning, data mining and knowledge discovery, data science, etc.

This thirs volume of the three-volume set (CCIS 1193, 1194, 1195) constitutes the refereed proceedings of the First International Conference on Applied Technologies, ICAT 2019, held in Quito, Ecuador, in December 2019. The 124 full papers were carefully reviewed and selected from 328 submissions. The papers are organized according to the following topics: technology trends; computing; intelligent systems; machine vision; security; communication; electronics; e-learning; e-government; e-participation.

This book constitutes the post-proceedings of the 5th International ICST Conference on Mobile Networks and Management, MONAMI 2013, held in Cork, Ireland, in September 2013. The 18 revised full papers presented were carefully reviewed and selected from numerous submissions. The volume is organized

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thematically in five parts, covering: TCP, multi-path and coding and content-centric networking; mobile networks; wireless sensor and vehicular networks; wireless communications and traffic; future research directions, including cloud connectivity, orchestration and SDN.

Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and Applications (WAINA-2019)

Wireless and Satellite Systems

Applied Technologies

Perspectives and Emerging Trends in 5G Networks

Design Principles And Practice

18th EUNICE/IFIP WG 6.2, 6.6 International Conference, EUNICE 2012, Budapest, Hungary, August 29-31, 2012, Proceedings

9th EAI International Conference, MOBILWARE 2020, Hohhot, China, July 11, 2020, Proceedings Principles, Protocols and Practice

As the volume of global Internet traffic increases, the Internet is beginning to suffer from a broad spectrum of performance-degrading infrastructural limitations that threaten to jeopardize the continued growth of new, innovative services. In answer to this challenge, computer scientists seek to maintain the original design principles of the Internet while allowing for a more dynamic approach to the manner in which networks are designed and operated. The Handbook of Research on Redesigning the Future of Internet Architectures covers some of the hottest topics currently being debated by the Internet community at large, including Internet governance, privacy issues, service delivery automation, advanced

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networking schemes, and new approaches to Internet traffic-forwarding and path-computation mechanics. Targeting students, network-engineers, and technical strategists, this book seeks to provide a broad and comprehensive look at the next wave of revolutionary ideas poised to reshape the very foundation of the Internet as we know it.

This thesis describes a thorough evaluation of performance of recently developed Multipath Transport Protocol, namely MPTCP; deals with some performance issues in specific scenarios and proposes a potential solution. Multipath TCP (MPTCP) is an extension of TCP, developed by Internet Engineering Task Force (IETF) to support communication between source and destination through multiple flows under a single connection session. We have conducted several experiments with real hardware on flows with extreme variation in path quality and found that unless receive buffer size is increased to a much higher value, the overall throughput decreases below the level of single-path TCP throughput. We propose a Slow Path Adaptation (SPA) technique to overcome this issue without affecting other performance parameters. The implementation is done on Linux kernel and experimental results are presented.

This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision



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Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

By 2020, if not before, mobile computing and wireless systems are expected to enter the fifth generation (5G), which promises evolutionary if not revolutionary services. What those advanced services will look like, sound like, and feel like is the theme of the book *Advances in Mobile Computing and Communications: Perspectives and Emerging Trends in 5G Networks*. The book explores futuristic and compelling ideas in latest developments of communication and networking aspects of 5G. As such, it serves as an excellent guide for advanced developers, communication network scientists, researchers, academicians, and graduate students. The authors address computing models, communication architecture, and protocols based on 3G, LTE, LTE-A, 4G, and beyond. Topics include advances in 4G, radio propagation and channel modeling aspects of 4G networks, limited feedback for 4G, and game theory application for power control and subcarrier allocation in OFDMA cellular networks. Additionally, the book covers millimeter-wave technology for 5G networks, multicellular heterogeneous networks, and energy-efficient mobile wireless network operations for 4G and beyond using HetNets. Finally, the authors delve into opportunistic multiconnect networks with P2P WiFi and cellular providers and video streaming over wireless channels for 4G and beyond.

4th International Conference, ICCCS 2018, Haikou, China, June 8-10, 2018, Revised Selected Papers, Part I

Proceedings of the Eleventh International Network Conference (INC 2016)

7th International Conference, WiSATS 2015, Bradford, UK, July 6-7, 2015. Revised Selected Papers

6th International Conference, DMBD 2021, Guangzhou, China,

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October 2022, 2021, Proceedings, Part I

5th International Conference, ICCCI 2013, Craiova, Romania,

September 11-13, 2013, Proceedings

Information Systems Architecture and Technology: Proceedings of 38th International Conference on Information Systems Architecture and Technology – ISAT 2017

Computer Networking

Broadband Communications, Networks, and Systems

***This book constitutes the refereed proceedings of the 19th International Conference on CParallel and Distributed Computing, Applications and***

***Technologies, PDCAT 2018, held in Jeju Island, South Korea, in August 2018.***

***The 35 revised full papers presented along with the 14 short papers and were carefully reviewed and selected from 150 submissions. The papers of this volume are organized in topical sections on wired and wireless communication systems, high dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, electronic circuits for communication systems.***

***This book constitutes the refereed proceedings of the 7th International Workshop on Traffic Monitoring and Analysis, TMA 2015, held in Barcelona,***

*Spain, in April 2015. The 16 full papers presented in this volume were carefully reviewed and selected from 54 submissions. The contributions are organized in topical sections on measurement tools and methods; mobile and wireless; Web; security; and new protocols.*

*This book constitutes the refereed post-conference proceedings of the 14th EAI International Conference on Quality, Reliability, Security and Robustness in Heterogeneous Networks, QShine 2018, held in Ho Chi Minh City, Vietnam, in December 2018. The 13 revised full papers were carefully reviewed and selected from 28 submissions. The papers are organized thematically in tracks, starting with security and privacy, telecommunication systems and networks, networks and applications. The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications. Networks of today are*

*going through a rapid evolution and there are many emerging areas of information networking and their applications. Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enable novel, low cost and high volume applications. Several of such applications have been difficult to realize because of many interconnections problems. To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks. This book covers the theory, design and applications of computer networks, distributed computing and information systems.*

**18th International Conference, ISC  
2015, Trondheim, Norway, September  
9-11, 2015, Proceedings  
Parallel and Distributed Computing,  
Applications and Technologies  
Passive and Active Measurement  
Part I  
Mobile Wireless Middleware, Operating  
Systems and Applications  
6th International Conference, ICSI 2015  
held in conjunction with the Second  
BRICS Congress, CCI 2015, Beijing,  
China, June 25-28, 2015, Proceedings,  
Part III  
ICCCN 2018, NITTTR Chandigarh, India  
17th International Conference, PAM  
2016, Heraklion, Greece, March 31 -  
April 1, 2016. Proceedings**

*This book constitutes the refereed  
conference proceedings of the 9th  
International Conference on Mobile  
Wireless Middleware, Operating Systems and  
Applications, MOBILWARE 2020, held in  
Hohhot, China, in July 2020. Due to  
COVID-19 pandemic the conference was held  
virtually. The 21 revised full papers were  
reviewed and selected from 69 submissions  
and are organized in tracks on MobilWare;  
Big data, data mining and artificial  
intelligence workshop; Blockchain and*

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*internet of things workshop.*

*Original textbook (c) October 31, 2011 by Olivier Bonaventure, is licensed under a Creative Commons Attribution (CC BY) license made possible by funding from The Saylor Foundation's Open Textbook Challenge in order to be incorporated into Saylor's collection of open courses available at: <http://www.saylor.org>. Free PDF 282 pages at <https://www.textbookequity.org/bonaventure-computer-networking-principles-protocols-and-practice/> This open textbook aims to fill the gap between the open-source implementations and the open-source network specifications by providing a detailed but pedagogical description of the key principles that guide the operation of the Internet. 1 Preface 2 Introduction 3 The application Layer 4 The transport layer 5 The network layer 6 The datalink layer and the Local Area Networks 7 Glossary 8 Bibliography This book constitutes the refereed proceedings of the 18th International Conference on Information Security, ISC 2015, held in Trondheim, Norway, in September 2015. The 30 revised full papers presented were carefully reviewed and selected from 103 submissions. The papers cover a wide range of topics in the area of cryptography and cryptanalysis and are*

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*organized in the following topical sections: signatures; system and software security; block ciphers; protocols; network and cloud security; encryption and fundamentals; PUFs and implementation security; and key generation, biometrics and image security.*

*This six volume set LNCS 11063 - 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security, ICCCS 2018, held in Haikou, China, in June 2018. The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions. The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control, artificial intelligence, automation systems, computing systems, electrical and informative systems. The six volumes are arranged according to the subject areas as follows: cloud computing, cloud security, encryption, information hiding, IoT security, multimedia forensics.*

*14th IFIP WG 6.2 International Conference, WWIC 2016, Thessaloniki, Greece, May 25-27, 2016, Proceedings  
Inventive Communication and Computational Technologies*

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*Algorithms and Architectures for Parallel Processing*

*Efficient MPTCP-based Multipath Network Access for Connected Vehicles*

*Mobile IP*

*Handbook of Research on Redesigning the Future of Internet Architectures*

*Advanced Computational Paradigms and Hybrid Intelligent Computing*

*Quality, Reliability, Security and Robustness in Heterogeneous Systems*

*Providing reliable and resilient network services to vehicles under fast mobility is a challenging aspect of designing next-generation wireless network systems.*

*Exploiting Multipath TCP (MPTCP) to enable vehicles to use multiple wireless connections simultaneously (denoted multipath network access) is a promising solution to this challenge. However, the current design of MPTCP makes it susceptible to some major drawbacks when applied directly to improve the network performance of connected vehicles. Particularly, the fast dynamism of the characteristics (e.g., round-trip time, loss rate) of wireless connections under vehicle mobility can significantly degrade the throughput. This thesis aims to address the underlying reasons for such performance degradation and proposes a solution to overcome the challenges faced by connected vehicles. We first analyze the reasons for the throughput degrading and verify them through in-lab measurements. We then model instances where MPTCP-*



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*based multipath network access would perform worse than using the single path TCP over available wireless connections separately. Based on the analysis, we propose an efficient bandwidth aggregation scheme (EBA) that mitigates the performance drop of MPTCP under fast mobility scenarios by selectively duplicating packets over parallel access paths. This scheme has been implemented in the Linux Kernel and tested extensively through simulated scenarios. Experimental results reflect that EBA can effectively enhance the performance of MPTCP for connected vehicles.*

*This thesis describes the research done regarding communication reliability when using the Internet to realize the communications for cyber-physical systems (CPSs). In a nutshell, the book first presents the obtained results from real-world measurements describing the reliability of today's Internet in terms of the availability and diversity of a wide set of end-to-end paths in the Internet. After that, the book describes a new approach along with its realization as a transport protocol to improve reliability and enable the utilization of Internet within future CPSs. In the first chapters of the book, the need for reliable communication to realize CPSs and the challenges of using the Internet as a communication network for such systems are described. The existing literature is analyzed after that and the identified research gap is highlighted. The proposed approach along with conducted measurements to evaluate it are described in the remaining chapters of the book.*

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*This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICCT 2019), held on 29–30 April 2019 at Gnanamani College of Technology, Tamil Nadu, India. The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). Topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud Computing. The book is chiefly intended for academics and practitioners working to resolve practical issues in this area.*

*The two-volume set LNCS 6640 and 6641 constitutes the refereed proceedings of the 10th International IFIP TC 6 Networking Conference held in Valencia, Spain, in May 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 294 submissions. The papers feature innovative research in the areas of applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 36 papers and is organized in topical sections on anomaly detection, content management, DTN and sensor networks, energy efficiency, mobility modeling, network science, network topology configuration, next generation Internet, and path diversity.*

*Reliable Communications within Cyber-Physical Systems Using the Internet (RC4CPS)*

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*Information Security*

*Data Mining and Big Data*

*Advanced Information Networking and Applications*

*Volume 2*

*Computational Collective Intelligence. Technologies and Applications*

*Trends and Innovations in Information Systems and Technologies*

*Computer Networks*

This book constitutes the thoroughly refereed proceedings of the 25th International Conference on Computer Networks, CN 2018, held in Gliwice, Poland, in June 2018. The 34 full papers presented were carefully reviewed and selected from 86 submissions. They are organized in topical sections on computer networks; teleinformatics and telecommunications; queueing theory; cybersecurity and quality service.

The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29 – 30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial professionals from around the globe presented

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their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

This book contains the proceedings of the Eleventh International Network Conference (INC 2016), which was held in Frankfurt, Germany, in July 2016. A total of 30 papers were accepted for inclusion in the conference. The main topics of the book include: Network Technologies; Mobile and Wireless Networking; Security and Privacy; Applications and Impacts. The papers address state-of-the-art research and applications of network technology, arising from both the academic and industrial domains. These proceedings should consequently be of interest to network practitioners, researchers, academics, and technical managers involved in the design, development and use of network systems.

This book constitutes the refereed post-conference proceedings of the 12th International Conference on Broadband Communications, Networks, and Systems, Broadnets 2021, which took place in October

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2021. Due to COVID-19 pandemic the conference was held virtually. The 24 full papers presented were carefully reviewed and selected from 49 submissions. The papers are thematically grouped as a session on broadband communications, networks, and systems; 5G-enabled smart building: technology and challenge; and 5G: The advances in industry. Information and Communication Technologies Connected Computing Environment

14th EAI International Conference, Qshine 2018, Ho Chi Minh City, Vietnam, December 3 – 4, 2018, Proceedings

13th EAI International Conference, SIMUtools 2021, Virtual Event, November 5 – 6, 2021, Proceedings

19th International Conference, PDCAT 2018, Jeju Island, South Korea, August 20-22, 2018, Revised Selected Papers

Web, Artificial Intelligence and Network Applications

18th International Conference, ICA3PP 2018, Guangzhou, China, November 15-17, 2018, Proceedings, Part II

This book constitutes the refereed proceedings of the 18th EUNICE 2012 conference on information and communication technologies, held in

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Budapest, in August 2012. The 23 oral papers demonstrated together with 15 poster presentations were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on radio communications, security, management, protocols and performance, algorithms, models, and simulations.

The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the

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core of any Information System. Artificial Intelligence (AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications.

This book includes a selection of papers from the 2018 World Conference on Information Systems and Technologies (WorldCIST'18), held in Naples, Italy on March27-29, 2018. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and the challenges of modern information systems and technologies research together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C)

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Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

This book constitutes the refereed proceedings of the 6th International Conference on Information, Communication and Computing Technology, ICICCT 2021, held in New Delhi, India, in May 2021. The 16 full papers and 4 short paper presented in this volume were carefully reviewed and selected from 83 qualified submissions.

The papers are organized in topical sections on communication and network systems; computational intelligence techniques.

Information, Communication and Computing Technology

Simulation Tools and Techniques

5th International Conference, MONAMI 2013, Cork, Ireland, September 23-25, 2013,

Revised Selected Papers



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12th EAI International Conference,  
BROADNETS 2021, Virtual Event, October  
28-29, 2021, Proceedings

Multipath TCP in Wireless Networks  
Advances in Mobile Computing and  
Communications

25th International Conference, CN 2018,  
Gliwice, Poland, June 19-22, 2018,  
Proceedings

Wired/Wireless Internet Communications

This book constitutes the refereed proceedings of the 14th IFIP WG 6.2 International Conference on Wired/Wireless Internet Communications, WWIC 2016, held in Thessaloniki, Greece, in May 2016. The 27 papers presented in this volume were carefully reviewed and selected from 54 submissions. The topics addressed are: wireless technologies and systems, middleboxes and addressing, energy efficiency, network applications and tools, network protocols, network modeling, wireless sensor networks, and resource management and optimization.

Mobile IP is most often found in wired and wireless environments where users need to carry their mobile devices across multiple LAN subnets. Examples of use are in roaming between overlapping wireless systems, e.g., IP over DVB, WLAN, WiMAX and BWA. Mobile IP is not required within cellular systems such as 3G, to provide transparency when Internet users migrate between cellular towers, since these systems provide their own data link layer handover and roaming mechanisms. However, it is often used in 3G systems to allow seamless IP mobility between

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different packet data serving node (PDSN) domains. Mobile IP is an Internet Engineering Task Force (IETF) standard communications protocol that is designed to allow mobile device users to move from one network to another while maintaining their permanent IP address. Defined in Request for Comments (RFC) 2002, Mobile IP is an enhancement of the Internet Protocol (IP) that adds mechanisms for forwarding Internet traffic to mobile devices (known as mobile nodes) when they are connecting through other than their home network. Mobile IP communication protocol refers to the forwarding of Internet traffic with a fixed IP address even outside the home network. It allows users having wireless or mobile devices to use the Internet remotely. Mobile IP is mostly used in WAN networks, where users need to carry their mobile devices across different LANs with different IP addresses. Mobile IP is not a wireless protocol. However, it could be employed for the IP infrastructure of cellular networks. The principle objective of this book are to provide an introduction to basic concepts and methodologies for mobile communication and to develop a foundation, that can be used the basis for further study and research in the field of communication engineering. Information, Communication and Computing TechnologySpringer Nature

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

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a session on wireless network and security and a session on communication quality.

Performance Improvement of Multipath TCP Over Non-uniform Paths Using Slow Path Adaptation  
Proceedings of ICACCP 2021

10th International IFIP TC 6 Networking Conference, Valencia, Spain, May 9-13, 2011, Proceedings

First International Conference, ICAT 2019, Quito, Ecuador, December 3-5, 2019, Proceedings, Part III

Proceedings of 2nd International Conference on Communication, Computing and Networking

Cloud Computing and Security

Advances in Swarm and Computational Intelligence

*This book and its companion volumes, LNCS volumes 9140, 9141 and 9142, constitute the proceedings of the 6th International*

*Conference on Swarm Intelligence, ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence, CCI 2015, held in Beijing, China in June 2015. The 161 revised*

*full papers presented were carefully reviewed and selected from 294 submissions. The papers are organized in 28 cohesive sections*

*covering all major topics of swarm intelligence and computational intelligence research and development, such as novel swarm-based*

*optimization algorithms and applications; particle swarm optimization; ant colony optimization; artificial bee colony*

*algorithms; evolutionary and genetic algorithms; differential evolution; brain storm optimization algorithm; biogeography based*

*optimization; cuckoo search; hybrid methods; multi-objective optimization; multi-agent systems and swarm robotics; Neural*

*networks and fuzzy methods; data mining approaches; information security; automation control; combinatorial optimization*

*algorithms; scheduling and path planning; machine learning; blind sources separation; swarm interaction behavior; parameters and system optimization; neural networks; evolutionary and genetic*

*algorithms; fuzzy systems; forecasting algorithms; classification;*

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*tracking analysis; simulation; image and texture analysis; dimension reduction; system optimization; segmentation and detection system; machine translation; virtual management and disaster analysis.*

*This book constitutes the proceedings of the 17th International Conference on Passive and Active Measurement, PAM 2016, held in Heraklion, Crete, Greece, in March/April 2016. The 30 full papers presented in this volume were carefully reviewed and selected from 93 submissions. They are organized in topical sections named: security and privacy; mobile and cellular; the last mile; testbeds and frameworks; web; DNS and routing; IXPs and MPLS; and scheduling and timing.*

*This book constitutes the thoroughly refereed conference proceedings of the 5th International Conference on Computational Collective Intelligence, ICCCI 2013, held in Craiova, Romania, in September 2013. The 72 revised full papers presented were carefully selected from numerous submissions. Conference papers are organized in 16 technical sessions, covering the following topics: intelligent e-learning, classification and clustering methods, web intelligence and interaction, agents and multi-agent systems, social networks, intelligent knowledge management, language processing systems, modeling and optimization techniques, evolutionary computation, intelligent and group decision making, swarm intelligence, data mining techniques and applications, cooperative problem solving, collective intelligence for text mining and innovation, collective intelligence for social understanding and mining, and soft methods in collective intelligence.*