An ever-increasing thirst for information in recent years among consumers, researchers, and the general population has necessitated continuous growth of internet architecture and accessibility, an issue which, if not addressed properly, may inhibit the growth of the internet as a whole.

Solutions for Sustaining Scalability in Internet Growth investigates current issues impeding the growth of information architecture and explores methods for developing a wider-reaching and ever-evolving internet. The book presents viable solutions to some of the current threats to robust and pervasive information systems, enabling internet actors such as network providers, service providers, vendors, and regulatory bodies to ensure the creation of a more accessible and balanced internet.

Topics Covered:
- Core Edge Elimination
- Edge and Core Networks
- Inbound Traffic Engineering
- Internet Architectures
- LISP Security Analysis
- Network Routing
- Routing and Forwarding Concerns
- Routing Scalability
- Topology Aggregation
- Waveband Switching

Mohamed Boucadair is an IP Networking Strategist at France Telecom. Mohamed worked as a Senior IP Architect within France Telecom. He worked at the France Telecom corporate division responsible for making recommendations on the evolution of IP/MPLS core networks. He has worked for France Telecom R&D and has been part of the team working on VoIP services. He has been involved in IST research projects, working on dynamic provisioning and inter-domain traffic engineering. He has also worked as an R&D engineer in charge of dynamic provisioning, QoS, multicast and intra/inter-domain traffic engineering. He has published many journal articles and written extensively on these subject areas. Mr. Boucadair holds several patents on VoIP, IPv4 service continuity, IPv6, etc.
Section 1: Issues and Design Principles

Chapter 1
Issues with Current Internet Architecture
Boucadair Mohamed (France Telecom, France)
Binet David (France Telecom, France)

Section 2: Scalable Routing and Forwarding Architectures

Chapter 2
Inter-Domain Traffic Engineering using the Origin Preference Attribute
Winter Rolf (University of Applied Sciences Augsburg, Germany)
von Beijnum Iljitsch (Institute IMDEA Networks, Spain & Universidad Carlos III de Madrid, Spain)

Chapter 3
On the Aggregatability of Router Forwarding Tables
Liu Yaoqing (University of Memphis, USA)
Zhao Xin (Google, USA)
Wang Lan (University of Memphis, USA)
Zhang Beichuan (University of Arizona, USA)

Chapter 4
APT:
Jen Dan (Center for Naval Analyses, USA)
Meisel Michael (ThousandEyes, USA)
Massey Daniel (Colorado State University, USA)
Zhang Beichuan (The University of Arizona, USA)
Zhang Lixia (University of California, Los Angeles, USA)

Chapter 5
Routing Architecture of Next-Generation Internet (RANGI)
Xu Xiaohu (Huawei Technology, China)
Lu Meilian (Beijing University of Posts and Telecom, China)

Chapter 6
Topology Aggregating Routing Architecture (TARA):
Hummel Heiner (Hummel Research, Germany)

Section 3: Advanced Features

Chapter 7
Routing Optimization for Inter-Domain Traffic Engineering Under Identifier Network
Zhang Hongke (Beijing Jiaotong University, Beijing, China & University of Posts and Telecommunications, Beijing, China)
Su Wei (Beijing Jiaotong University, Beijing, China)

Chapter 8
The Map-and-Encap Locator-Identifier Separation Paradigm:
Saucez Damien (Inria Sophia Antipolis, France)
Iannone Luigi (Telecom ParisTech, France)
Botnaveur Olivier (Université catholique de Louvain, Belgium)

Chapter 9
A Hierarchical Approach to Reduce Power Consumption in Core and Edge Networks:
Raman Shankar (Indian Institute of Technology Madras, India)
Venkat Balaji (Indian Institute of Technology Madras, India)

Chapter 10
Waveband Switching:
Wang Yang (Georgia State University, USA)
Anand Vishal (The College at Brockport, USA)
Cao Xiaojun (Georgia State University, USA)

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