

Contents

<i>List of Tables and Figures</i>	xi
<i>Table of Cases</i>	xiii
<i>Table of Legislations</i>	xv
<i>List of Abbreviations</i>	xvii
1. Global Standard-setting in Internet Governance	1
Outline of the Book	8
2. Informal Governance and Decision-making Through Multiple Streams: Explaining Standard-developing Organizations	15
Transnational Governance	15
Applying the Multiple Streams Approach	23
Identifying Mechanisms	29
3. Internal Governance of the IETF, W3C, OASIS, and IEEE: Structure, Decision-making, and Internationalization	34
The Internet Engineering Task Force	37
The Internet Society	45
The World Wide Web Consortium (W3C)	49
The Organization for the Advancement of Structured Information Standards (OASIS)	55
The Institute of Electrical and Electronics Engineers (IEEE)	57
Conclusion	60
4. The Quick UDP Internet Connection (QUIC) and Transport Layer Security 1.3 Standards: Snowden and the Impact on the Encryption Debate in the IETF	62
Introduction	62
Coupling the Problem Stream with the Politics Stream and TLS with QUIC	64
The Transport Layer Security Protocol (TLS 1.3)	65
Quick User Datagram Protocol (UDP) Internet Connection (QUIC)	67
Policy	71
Conclusion	78
5. Political Drift and Forum Shifts: The Case of Browser Development	80
HTML and DOM Migrate to WHATWG	81
Standards and Content Protection	87

Wide Public Profile of the Issue of DRM	93
DRM and the W3C	95
Conclusion	101
6. 802.11ax: Technical Standards-making, the Unlicensed Spectrum, and the Future of WiFi	102
Introduction	102
The Problem Stream: The Unlicensed Spectrum, and Innovation in WiFi Standards to Deliver Better Services	104
The Policy Stream: 802.11ax, Micro Level Mechanisms, and Intra-organizational Standards-development Pressure. The DensiFi Special Interest Group and Dominance in the Development of 802.11ax	108
The Political Stream: 802.11ax and Extra-organizational Pressures in Standards Development	116
Conclusion	120
7. The Do Not Track Standard: The Failure of Self-regulation and the Politics of Contestation	122
The Problem Stream: Trends, a Window of Opportunity, and Initial Coupling	123
Window of Opportunity	124
The Policy Stream: Contestation and Consolidation of Diversity	126
The Politics Stream: Timing and Legal Reinforcement?	130
Conclusion	134
8. Technical Standards, Dynamic Spectrum Access, and Competing Spectrum Policy Interests in the TV White Space Environment	136
The Problem Stream: How to Intensify the Use of TVWS Spectrum	138
The TVWS Policy Stream: Intensifying the Use of TVWS Through Dynamic Spectrum Access	139
The Contested TVWS Political Stream: Policy Development and Its Challenges in the United States	142
The Contested TVWS Political Stream: UK TVWS Developments	146
Conclusion	154
9. Protocols and State Surveillance	157
Problem Definition: Security Agencies and Protocol Development	157
Snowden as a Window of Opportunity	161
Solutions Chasing Problems	164
The HTTP Status Code 451	166
The Case of Huawei	170
Conclusion	172

10. Engineers and the Public Interest	175
Problem Definition: Unsanctioned Tracking	175
The IETF and Consumer Privacy	182
Digital Rights Activism	186
Conclusion	188
11. The Internet of Things: A Policy Window for Standard	
Essential Patents	189
Governance Architecture	191
IETF	193
IEEE	195
W3C	198
WHATWG	200
OASIS	200
International Convergence in State Approach	200
Conclusion	208
12. Conclusion: SDO Decision-making and the Public Interest	210
Comparing the Cases: What Triggers Policy Adoption?	212
Macro Mechanisms for Policy Change	213
Micro Mechanisms for Policy Change	217
Decision-making and the Public Interest	221
National Legal Environments	225
European Union	228
Transnational Cooperation Policy Convergence	231
Conclusion	236
<i>References</i>	238
<i>Index</i>	257