
Contents

Presentation of Authors	xiii
Introduction. Mobilities and Uses	xxi
Jean-Michel LEDJOU, Hanitra RANDRIANASOLO-RAKOTOBÉ and Destiny TCHÉHOUALI	
Part 1. Culture, Education and Empowerment.	1
Introduction to Part 1	3
Jean-Michel LEDJOU, Hanitra RANDRIANASOLO-RAKOTOBÉ and Destiny TCHÉHOUALI	
Chapter 1. Discovering Audiovisual Content via Mobile Platforms and Applications: Usage Trends on TV5MONDEplus	7
Destiny TCHÉHOUALI	
1.1. Changes in audiovisual consumption habits in the era of connected mobility	9
1.2. Changing business models in audiovisual broadcasting/distribution: new challenges in recommendation and discoverability.	13
1.3. Editorialization and recommendation strategies with attentional design	18
1.4. Analysis of discoverability trajectories of Quebec/Canadian, European and African content via TV5MONDEplus platforms and mobile applications	22
1.4.1. Attentional design tests and discoverability in French-speaking Africa of Quebec and European audiovisual productions	23
1.4.2. Analysis of the discoverability potential in Canada and in France of French-language African audiovisual productions.	28
1.4.3. Some trends in content discovery and consumption across the entire TV5MONDEplus catalog between 2023 and 2024	31
1.5. Conclusion	33
1.6. References	34

Chapter 2. Digital Acculturation: From Lived Experience to Skills Acquisition	39
Billel AROUFOUNE and Michel DURAMPART	
2.1. The Ever.li mobile application: a heuristic research field	39
2.2. Situating specific uses: a theoretical framework under construction	42
2.3. Types of use observed during a qualitative approach.	45
2.4. Conclusion	47
2.5. References	48
Chapter 3. Female Empowerment via Smartphones in Saudi Arabia	51
Hélène BOURDELOIE	
3.1. The efficiency of digital-based empowerment	53
3.2. The smartphone: a lever for visibility and speech that has been confiscated	55
3.3. Micro-resistance in the service of the collective	60
3.4. Conclusion	62
3.5. References	63
Chapter 4. Comparative Analysis of Two Mobile Learning Initiatives in Secondary Education in Togo	69
Yawa ASSIKLOU	
4.1. Mobile learning in Togo: presentation of the cases studied	72
4.1.1. Smartphones in education: the experience of the Kekelithèque digital library	73
4.1.2. The Zovu digital education project	74
4.2. Conceptual and methodological framework.	74
4.2.1. The conceptual framework	74
4.2.2. The methodological approach	75
4.2.3. Results	76
4.3. Understanding the success and failure of the projects studied	76
4.3.1. Success factors	76
4.3.2. Factors contributing to failure	77
4.3.3. The contributions of initiatives to learning	81
4.3.4. Limitations on the use of smartphones in learning in Togo	82
4.4. Conclusion	83
4.5. References	84

Part 2. Economic Issues and Digital Entrepreneurship	89
Introduction to Part 2	91
Jean-Michel LEDJOU, Hanitra RANDRIANASOLO-RAKOTOBÉ and Destiny TCHÉHOUALI	
Chapter 5. The Smartphone in the Fields: Questioning the Human–Technology Relationship in Farming	93
Hanitra RANDRIANASOLO-RAKOTOBÉ and Jean-Michel LEDJOU, with the collaboration of Michel DUBOIS and Marie-Rose RANDRIAMAROLO-MALAVAU	
5.1. Farming and digital technology: challenges and prospects.	94
5.1.1. The smartphone, the birthplace of DSTs: a social technique?.	95
5.1.2. Mobile DSTs: nothing new? Same old story?	96
5.2. The human–technology relationship illuminated by a peer-to-peer methodological approach.	97
5.2.1. Innovative methodology	98
5.2.2. Revealing behavior: socially intelligent resistance to the dehumanization and isolation caused by digital technology.	102
5.3. Conclusion	104
5.4. References	104
Chapter 6. Service-oriented Mobile Applications: Curiosity, Action and Addiction in the Face of Food Waste	107
Jean-Marc FERRANDI and Béatrice SIADOU-MARTIN	
6.1. Towards a deeper understanding of the success of these digital tools.	109
6.1.1. Service-oriented mobile applications: an everyday tool for consumers	109
6.1.2. Service-oriented mobile applications: increasing opportunities for changing behavior	110
6.2. Collecting personal information: a necessary but contested requirement?	113
6.2.1. From application intrusion to the intrusiveness felt by consumers	113
6.2.2. Impact of intrusiveness on consumer behavioral response	114
6.3. Conclusion	120
6.4. References	120
Chapter 7. E-commerce: The Future of Physical Commerce?	125
Emmanuelle BORNÉ	
7.1. The consequences of the development of e-commerce: the emergence of new constraints.	127
7.1.1. The proliferation of logistics warehouses, both on the outskirts and in city centers	128
7.1.2. The corresponding development of delivery	130
7.1.3. The need to take new issues into account.	131

7.2. Concrete solutions to combat the negative externalities of e-commerce	132
7.2.1. On the outskirts: regulating the construction of large warehouses	133
7.2.2. In city centers: regulations governing the establishment of small warehouses and pedestrian drive-throughs to boost commercial recovery	134
7.2.3. Delivery regulations: the last-mile policy.	136
7.3. Conclusion	138
7.4. References	139
Chapter 8. Smartphones in the Service of Women's Entrepreneurship in Côte d'Ivoire.	141
Nakanfè DAGNOGO	
8.1. Women's entrepreneurship and mobile telephony in Côte d'Ivoire	142
8.1.1. The Ivorian entrepreneurial ecosystem	142
8.1.2. Mobile telephony	144
8.2. Presentation of results	145
8.2.1. Profiles and activities of women entrepreneurs	146
8.2.2. Motivations for entrepreneurship and difficulties encountered	146
8.2.3. Smartphone use in women's entrepreneurship	147
8.3. Interpretation of results	150
8.3.1. Smartphones and women's empowerment	150
8.3.2. The transition from informal to formal	151
8.3.3. The gender digital divide and techno-social risks	152
8.4. Conclusion	153
8.5. References	153
Chapter 9. The Adoption of Mobile Applications by African Women Traders: An Affordance Approach.	155
Carole FAGADÉ and Ibrahim MAÏDAKOUALE	
9.1. Context, materials and methods	156
9.1.1. Theoretical framework: an affordance perspective.	157
9.1.2. Methodological approach	159
9.2. Results and discussions: adoption of mobile applications by African women traders	162
9.2.1. Affordances and social interaction	163
9.2.2. Empowering women online traders: mobile phones at the service of local business strategies	168
9.3. Conclusion	169
9.4. References	170

Chapter 10. Mobile Money in Sub-Saharan Africa: Innovation and Stakeholder Strategies	173
Sokhna Fatou SECK-SARR	
10.1. Theoretical framework and methodological approach	175
10.1.1. The innovation process	175
10.1.2. Stakeholder strategies and cooptation.	176
10.1.3. Methodological approach.	177
10.2. Mobile money: an innovative use of mobile telephony	178
10.2.1. The concept of mobile money	178
10.2.2. Mobile money: a disruptive innovation or a product innovation?	179
10.2.3. Changes through the diversification of mobile money offerings	180
10.3. Stakeholder strategies between cooptation and interoperability	180
10.3.1. Actor profiles: banks, telecommunications and FinTech.	180
10.3.2. Mobile money access points: a guarantee of proximity	181
10.3.3. Cooptation between banks and mobile operators	182
10.3.4. The arrival of FinTechs and the challenge of interoperability	184
10.4. Conclusion	185
10.5. References	186
Part 3. Law and Health	189
Introduction to Part 3	191
Jean-Michel LEDJOU, Hanitra RANDRIANASOLO-RAKOTOBÉ and Destiny TCHÉHOUALI	
Chapter 11. In Search of an Optimal Framework for the Protection of Minors Using Smartphones	193
Philippe ACHILLEAS	
11.1. The universal framework and the fight against online sexual exploitation and abuse	194
11.2. Towards a comprehensive EU strategy.	197
11.3. Ongoing debates around technical solutions	199
11.4. Conclusion	201
11.5. References	202
Chapter 12. <i>Homo digitalis</i>: The French and European Legal Framework for Mobile Applications	203
Cynthia CHIARBONELLO	
12.1. Legislative provisions relating to mobile applications	205
12.1.1. The legal situation in France	205
12.1.2. The legal situation in the European Union	207

12.2. The role of regulatory and supervisory authorities with regard to mobile applications	209
12.2.1. Minor intervention by the European Data Protection Board	210
12.2.2. Major intervention by the French Data Protection Authority (CNIL).	211
12.3. Conclusion	214
12.4. References	214
Chapter 13. Dark Patterns and Manipulation of Mobile Usage? Proposal for Regulation through Design	217
Fabien LECHEVALIER and Marie POTEL-SAVILLE	
13.1. Dark patterns, manipulation by design	220
13.1.1. Dark patterns: interfaces that exploit social asymmetries	220
13.1.2. Dark patterns: interfaces that exploit cognitive asymmetries	223
13.2. Fair patterns, empowerment by design	228
13.2.1. Empowering design as a regulatory framework.	228
13.2.2. Empowering design as a regulatory tool.	231
13.3. Conclusion	236
13.4. References	236
Chapter 14. Socio-anthropological Issues of Uses and Design of Mobile Health Applications	239
Béa ARRUBARRENA	
14.1. Uses of mobile health applications	240
14.1.1. From QS to digital health	240
14.1.2. Socio-anthropological challenges of mobile digital health applications	241
14.2. Mobile application design	242
14.2.1. Models of mobile application design: the primacy of persuasive design	242
14.2.2. Theoretical foundations of persuasive design.	245
14.3. Towards a design of human–technology mediation in mobile health	245
14.3.1. Epistemological critique of persuasive design	246
14.3.2. From persuasion to digital mediation in healthcare.	248
14.3.3. Towards interdisciplinary evaluation from the design stage onwards.	249
14.4. References	250
Chapter 15. ICT and Lockdown: An Advantage for the Tunisian Middle Classes?	255
Tsiry ANDRIANAMPIARIVO, Céline BONNEFOND and Fatma MABROUK	
15.1. Social stratification and the middle classes in Tunisia: identification and characteristics	258
15.1.1. Evolution of the Tunisian social structure and emergence of the middle class	258

15.1.2. Methodological framework for identifying the middle classes	259
15.1.3. Tunisian social stratification in 2021: identification and characterization of the Tunisian middle classes	260
15.2. Inequalities in ICT usage by Tunisian households in times of crisis in favor of the middle classes	261
15.2.1. Smartphone ownership: Tunisia's over-equipped middle and upper classes	261
15.2.2. The ability to telework: a privilege of the upper middle class	263
15.2.3. Adaptation strategies in ICT-based productive activities: an innovation accessible to a minority of middle-class entrepreneurs	264
15.2.4. The use of ICTs for remote learning in response to school closures: a socially discriminatory measure	265
15.3. Conclusion	266
15.4. Appendix: comparative distributions of classification variables according to cluster	268
15.5. References	270
List of Authors	273
Index	277