

LEGAL TECHNOLOGY TRANSFORMATION
A PRACTICAL ASSESSMENT

Edited by
ANDREA CALIGIURI

EDITORIALE SCIENTIFICA

2020

PROPRIETÀ LETTERARIA RISERVATA

© Copyright 2020 Editoriale Scientifica s.r.l.
Via San Biagio dei Librai, 39 – 80138 Napoli
www.editorialescientifica.com – info@editorialescientifica.com

ISBN 978-88-9391-985-2

SCIENTIFIC COMMITTEE

GUIDO LUIGI CANAVESI

*Department of Law
Università di Macerata*

GIUSEPPE CATALDI

*Department of Social Sciences and Humanities
Università di Napoli "L'Orientale"*

LIU HUAWEN

*Institute of International Law
Chinese Academy of Social Sciences*

MONICA STRONATI

*Department of Law
Università di Macerata*

CHRISTOPH VAN DER ELST

*Tilburg Law School
Tilburg University*

TABLE OF CONTENTS

<i>Preface</i>	1
----------------------	---

PART I FREE MOVEMENT OF PERSONAL AND NON-PERSONAL DATA

Introduction	5
STEFANO VILLAMENA	
1. New Technologies, Big Data and Human Rights: An Overview	11
ARIANNA MACERATINI	
2. Protection of Personal Data and Human Rights between the ECHR and the EU Legal Order	21
ALFREDO TERRASI	
3. Promoting a Common Understanding of the GDPR: European Data Protection Board and National Data Protection Authorities	33
MARCO MACCHIA	
4. Protection and Trade of Non-personal Data	40
CRISTINA RENGHINI	
5. Protection of Personal and Non-personal Data: A Chinese Perspective	48
YUTING YAN	
6. Digital Humanism between Ethics, Law, and New Technologies	65
MARIA CONCETTA DE VIVO	
7. Labor Relations, Intelligent Machine, Digital Plants. Legal Problem related to Data and Social Protection	80
MICHELE FAIOLI	

PART II USE OF UNMANNED AERIAL, MARITIME AND GROUND SYSTEMS IN CIVIL AND MILITARY FIELDS

Introduction	89
STEFANO POLLASTRELLI	

1. Air Traffic Control by Satellite: Some Legal Aspects	91
SILVIO MAGNOSI	
2. A New International Legal Framework for Unmanned Maritime Vessels?	99
ANDREA CALIGIURI	
3. Connected and Automated Mobility of Road Vehicles	110
CARMEN TELESCA	
4. The Ethical and Legal Implications of Autonomy in Weapons Systems	119
DANIELE AMOROSO, GUGLIELMO TAMBURRINI	

PART III
ARTIFICIAL INTELLIGENCE AND SMART CITIES

Introduction	131
ALESSIO BARTOLACELLI, CHIARA FELIZIANI, FRANCESCA SPIGARELLI	
1. Artificial Intelligence Applied to Cities	133
EMANUELE FRONTONI, LUCA ROMEO	
2. Electric Smart Grid	140
ALESSIA ARTECONI	
3. Smart Cities and Airbnb: Platforms as 'Regulatory Intermediaries' in Short-term Rental Market?	147
GIACOMO MENEGUS	
4. Technological Innovation and Artificial Intelligence Applied to Intermodal Transport: The Case Study of the Port of Ancona	154
MATTEO PAROLI	

PART IV
LEGAL RAMIFICATIONS OF BLOCKCHAIN TECHNOLOGY

SECTION I
BLOCKCHAIN AND CRYPTOCURRENCIES

Introduction	167
KONSTANTINOS SERGAKIS	
1. The Economic Framework and Applications of Blockchain (Distributed Ledger) Technology	170
TAMIR AGMON, LEVY COHEN	

2. Blockchain and Privacy: Can they Coexist?	181
MARCO BALDI, DALILA CALABRESE, GIULIA RAFAIANI	
3. Blockchain and Criminal Risk	189
ROBERTO ACQUAROLI	
4. Bitcoin and Cryptocurrencies. Tax Law Related Profiles	195
GIUSEPPE RIVETTI, PAOLA CRICCO	
5. Blockchain and ICOs (A Sisyphian Juridical Tale on Financial Markets and Innovation)	208
ALDO LAUDONIO	

SECTION 2
*BLOCKCHAIN AND LEGAL IMPLICATIONS
FOR PRIVATE LAW AND BUSINESS LAW*

Introduction – The Blockchain Technology between the Law of Contemporaneity and the New Power Structure	223
FRANCESCO GAMBINO	
1. Blockchain Application in General Private Law: The Notarchain Case	229
ENRICO DAMIANI	
2. Blockchain Applications and Company Law	237
FLORIAN MÖSLEIN	
3. Anonymity and Pseudonymity. Fintech and the Key Issue of Traceability	245
ELISABETTA PEDERZINI	
4. Blockchain and the Food Supply Chain: The Future of Food Traceability	260
PAMELA LATTANZI, SERENA MARIANI	
<i>List of Authors</i>	269