INDEX

FOREWORD. NEW TAXPAYERS' RIGHTS IN THE ERA OF DIGITAL ADMI-NISTRACION: THE RESEARCH PROJECT AND ITS MAIN FINDINGS, by Pasquale Pistone

I. DIGITAL TRANSFORMATION OF TAX ADMINISTRATIONS

CHAPTER 1. REGULATORY CHALLENGES OF THE USE OF ARTIFICIAL INITELLIGENCE BY
TAX ADMINISTRATIONS, by Marta Villar Ezcurra

CHAPTER 2. TAX ADMINISTRATION AND TECHNOLOGY: FROM ENHANCED TO NO-COOPERATION?, by Joáo Félix Pinto Nogueira

II. INTERNATIONAL ANALYSIS OF DIGITAL TRANSFORMATION OF TAX ADMINISTRATIONS AND NEW TAXPAYER'S RIGHTS IN COMPARATIVE LAW.

CHAPTER 3. BIG DATA, ARTIFICIAL INTELLIGENCE AND MACHINE LEAR NING IN EUROPEAN COUNTRIES: A COMPARED AND PRACTICAL ANA LYSIS, by *Marina Serrat Romaní*

CHAPTER 4. INTERNATIONAL ANALYSIS OF DIGTAL, TRANSFORMATION OF TAX ADMINSITRATION AND NEW TAXPAYERS' RIGHTS IN AMERICA, by Alfredo Collosa

CHAPTER 5. OECD APPROACH ON DIGITAL TRANSFORMATION OF TAX ADMINISTRATION AND NEW TAXPAYER'S RIGHTS, by Lorenzo del Federico, Francesco Montari and Silvia Giorgi

III. USE OF BLOCKCHAIN AND INTERNET OF THINGS BY TAX ADMINSTRATIONS

CHAPTER 6. DIGITALISATION OF THE TAX ADMINISTRATIONS: THE USE OF BLOCKCHAIN, by *Ksenija Cipek*

CHAPTER 7. THE USE OF BLOCKCHAIN BY TAX ADMINSITRATION: THE UE VAT FRAUD, by Alma Delia Virto Aguilar

CHAPTER 8. TAX ASSUMPTIONS IN THE DIGITAL AGE, by José Andrés Rozas

IV. BIG DATA, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR TAX GEARED AVOIDANCE

CHAPTER 9. EXPLICABILITY AND NON DISCRIMINATION IN TAX ADMINSITRATION'S DECISIONS BASED ON ARTIFICIAL INTELLIGENCE, by Begoña Pérez Bernabeu and Jorge Martín López

CHAPTER 10. PRINCIPLES IN THE USE OF ARTIFICIAL INTELLIGENCE BY TAX ADMINISTRATION: THE NEED TO BUILD TRUST TO ENHANCE ITS USE, by *Cristina García-Herrera Blanco*

CHAPTER 11. DIGITAL GOVERNANMENT TAXPAYER'S CHARTER, by Francesco Montanari and Silvia Giorgi