Dariusz Szostek | Mariusz Załucki (eds.)

Legal Tech

Information technology tools in the administration of justice
Please note that this publication is supported by the European Law Institute (ELI)'s Polish Hub. The statements and recommendations contained in this publication have not been approved or endorsed by any statutory body of ELI and thus should not be taken to represent an official statement or position of ELI.

The book was financed by AFM Kraków University (Poland).

Scientific reviewer: Prof. Jacek Gofaczyński, University of Wrocław (Poland)
# Table of Contents

**Introduction**

**PART ONE Information Technology Tools in the Administration of Justice: Definitions, Possibilities, Barriers, Doubts**

**SECTION ONE. The Concept of Legal Technology and its Borderlands**

The Concept of Legal Technology (LegalTech) and Legal Engineering

*Dariusz Szostek*

Algorithmisation and Tokenisation of Law

*Rafał Prabucki, Rafał Skibicki, Dariusz Szostek, Jakub Wyczik*

Borderlands of the Law and Technology: from Digital Machines to LegalTech

*Maria Dymitruk*

Legal Tech - Bringing Law into the “Twentieth” Century

*Tomasz Grzegory, Janos Puskas*

**SECTION TWO. Towards Algorithmic Legal Reasoning and Law-Making**

Computational Legal Problem Solving. What can Legal Tech Learn from AI and Law Research, and Beyond?

*Miehl Araszkiewicz*

Computer Aided Legislation

*Wojciech Cyrul*
Table of Contents

Two Sides of the Same Coin. Possible Interactions Between Text-written Law and Computer Code in the Near Future 141
Patryk Ciurak

SECTION THREE. Possibilities of Applying LegalTech Tools in Legal Practice

The Changing Role of the Lawyer. The Case of Digital Accessibility. 165
Ewa Fabian, Przemyslaw Polanski

LegalTech in Law Firms and the Work of In-house Lawyers 179
Iga Kurowska, Kamil Szpyt

Małgorzata Kurowska

LegalTech and Cloud Computing 223
Katarzyna Biczysko-Pudelko

Legal Tech in the Law Enforcement Agencies 251
Maria Dymitruk

Smart Contracts, Blockchain and Distributed Ledger Technology (DLT) in the Work of a Lawyer 267
Agnieszka Kubiak-Cyrul, Dariusz Szostek

Legal Tech vs Data in Organisation 287
Małgorzata Kurowska

LegalTech Insurance 299
Kamil Szpyt

Basic Principles for the Effective Use of Legal Tech Tools 315
Tomasz Zalewski
# Table of Contents

**SECTION FOUR. Possibilities of Applying AI-based LegalTech Tools in Legal Practice**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI and the Work of Lawyers in the Light of the Council of Europe Guidelines</td>
<td>335</td>
</tr>
<tr>
<td>Marek Swierczynski</td>
<td></td>
</tr>
<tr>
<td>AI In Law Firms</td>
<td>347</td>
</tr>
<tr>
<td>Gabriela Wiktorzak</td>
<td></td>
</tr>
<tr>
<td>Artificial Intelligence in the Law Firm of the Future</td>
<td>361</td>
</tr>
<tr>
<td>Gabriela Bar</td>
<td></td>
</tr>
<tr>
<td>LegalTech in a Law Office in the context of Standardization and Autonomic Intelligence</td>
<td>375</td>
</tr>
<tr>
<td>Michal Wódczak</td>
<td></td>
</tr>
<tr>
<td>LegalTech in the Judiciary: Technological Developments and the Future of the Court System</td>
<td>387</td>
</tr>
<tr>
<td>Mariusz Zalucki</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION FIVE. Possibilities of Applying LegalTech Tools in Legal Communication**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self Sovereign Identity</td>
<td>407</td>
</tr>
<tr>
<td>Michał Tabor</td>
<td></td>
</tr>
<tr>
<td>Electronic Delivery</td>
<td>415</td>
</tr>
<tr>
<td>Sylwester Szczepanik, Michał Tabor</td>
<td></td>
</tr>
<tr>
<td>Electronic Communication</td>
<td>433</td>
</tr>
<tr>
<td>Anna Zalesinska, Dariusz Szostek</td>
<td></td>
</tr>
<tr>
<td>Cyber Security, Cyber Hygiene or Cyber Fiction of our Time</td>
<td>463</td>
</tr>
<tr>
<td>Tomasz Chomicki</td>
<td></td>
</tr>
</tbody>
</table>
# Table of Contents

Information Security in Legal Firms

Robert Pajak

## PART TWO Use of Information Technology Tools in the Administration of Justice of Selected Countries

Brazil

*Thiago Santos Rocha*

China

*Maddalena Castellani*

France

*Iga Kurowska*

Germany

*Wilfried Bernhardt*

Hungary

*Zsolt Zódi*

Italy

*Pierpaolo Marano, Mario Zanin, Enrico Maria Scavone*

Lithuania

*Vytautas Nekrošius*

Mexico

*Mauro Arturo Rivera León*

Poland

*Aleksandra Partyk*
Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary of the book</td>
<td>615</td>
</tr>
<tr>
<td>About the authors</td>
<td>617</td>
</tr>
<tr>
<td>Bibliography</td>
<td>629</td>
</tr>
</tbody>
</table>