Preface: Artificial Intelligence Governance, Ethics and Law (AIGEL)

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Abstract

AIGEL Proceedings include a Preface, nine long papers, and six short papers. There were originally 18 long abstracts and papers submitted to AIGEL. Of these, after the discussions that took place at the Seminar sessions and final Workshop, five were revised, seven rewritten, and three updated papers were added and reviewed.

1. Introduction

AIGEL is a joint initiative of the UAB Institute of Law and Technology (IDT-UAB) and the Institute for Artificial Intelligence of the Spanish Research Council (IIIA-CSIC) (Barcelona), supported by the Faculty of Law of the Autonomous University of Barcelona, La Trobe Law School LawTech Research Group (Melbourne), and the Thomas More Law School of the Australian Catholic University. It is an open International Series, following the standard publication rules in the field of Artificial Intelligence and Law.

AI Governance, and more specifically, ethical, and legal AI governance is at the core of this endeavour. This is a very dynamic area. The EU, for example, is building a network of regulatory agendas with the purpose of establishing the legal framework (in the broad participatory sense of better regulations) of all applicable tools[1] The latest version of the Better Regulations Toolbox was released on 20 July 2023. This version includes some comments and recommendations on Artificial Intelligence and algorithmic governance tools to prevent biases and to foster equality, transparency, and accountability.[2]

CEUR Workshop Proceedings (CEUR-WS.org)

[1]https://commission.europa.eu/system/files/2021-11/swd2021_305_en.pdf

[2]https://commission.europa.eu/system/files/2023-07/BR_toolbox_Jul_2023_en.pdf

According to the Blue Guide on the implementation of EU product rules, the new regulatory EU approach was called the New Legislative Framework (NLF) in 2008, as opposed to the Old Approach Legislation (OAL) focused on regulation through Directives.[3] Very likely, the main shifting instrument for this digital perspective was the GDPR (General Data Protection Regulation) which entered into force in May 2018, but had been thoroughly discussed since at least 2012. After its enactment, the latest proposals include the so-called Artificial Intelligence Act, the Digital Services Act, and the Data Governance Act.[4]

This first AIGEL Seminar series explored these new trends and their relationships with ethical and legal governance approaches in computer science. A wide range of digital and blockchain environments stemming from European and national projects were examined, paying a particular attention to the financial and banking areas.

Lectures and presentations in this series were delivered from November 2nd to December 19th, 2022. All Sessions were held at Saló de Graus of the UAB Faculty of Law, from 2.30 pm to 4pm. Each session (except the first one) lasted 1.30 hours, divided into two different times of 45 minutes each. Lectures were followed by questions-answers, conducted by the chair. The Seminar concluded with a day-long Scientific Workshop on December 19th, 2022. The Sessions were also offered online and recorded. The peer-review process for selecting the papers to be finally published was carried out in the next months, from January to July 2023. There were originally 18 long abstracts and papers submitted to AIGEL. Of these, after the discussions that took place at the Seminar sessions and final Workshop, five were revised, seven rewritten; and three updated papers were added and equally reviewed.

We reproduce below the original programme that was announced and commented fortnightly at the IDT website https://webs.uab.cat/idt/. Recordings are available at the following links:

Opening and session 1	▦	AIGEL_19_December_Opening and Session 1.mp4
Session 2	▦	AIGEL_19 December_Session 2.mp4
Session 3	▦	AIGEL_19 December_Session 3.mp4
Session 4	▦	AIGEL_19 December_Session 4.mp4
Session 5 and closing	▦	AIGEL_19 December_Session 5.mp4

On June 20th, 2023, the Spanish National Research Council (*Consejo Superior de Investigaciones Científicas*, CSIC) officially approved the Research Associated Unit IDT-UAB, launched and created by the UAB Institute of Law and Technology (IDT) and the Artificial Intelligence Research Institute (IIIA-CSIC) to foster common research and resume this kind of joint publications in the years to come.

Finally, we would like to thank Mario Macías and Wendy R. Simon for their excellent work

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[3]Cf. Commission Notice, *The 'Blue Guide' on the implementation of EU product rules* (2022/C 247/01).https://eur-lex.europa.eu/legal-content

[4]Among many others, the *Digital Decade (Digital Compass)*, the *Data Governance Act* (Proposal for a Regulation on European Data Governance COM/2020/767, the *Open Data Directive* (Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on Open Data and the Re-use of Public Sector Information, PE/28/2019/REV/1, OJ L 172, 26.6.2019, pp. 56–83. Other initiatives under the EU data strategy establish trusted mechanisms and services for the re-use, exchange and sharing of essential data for the development of high-quality data-based AI models.

in managing and editing the first versions of most of the papers finally published.

2. AIGEL Programme

Seminar

2 November

1. **2 pm - 2.15 pm.** Susana Navas (Dean Faculty of Law UAB), Esther Zapater (UAB Secretary and IDT Director), Patrick Keyzer (Dean of the Thomas More Law School), and Carles Sierra (IIIA-CSIC Head): *Welcome and Opening Session*

2. **2.20 pm - 2.30 pm.** Pompeu Casanovas (IIIA-CSIC/IDT-UAB/-LawTech LTU) and Pablo Noriega (IIIA-CSIC): *Present Issues in AI, Ethics and Law.*

3. **2.30 pm - 3.15 pm.** Louis de Koker (LawTech, La Trobe University): The Application of AI Technologies to Support the Combating of Money Laundering and the Financing of Terrorism and Weapons of Mass Destruction.

4. **3.15 pm – 4.00 pm.** Discussion. Chair : Carles Sierra (IIIA-CSIC)

9 November

5. **2.30 pm – 3.15 pm.** John Zeleznikow (LawTech LTU): Online Dispute Resolution Governance: Ethics and Law.

6. **5 pm – 4.00 pm.** Discussion. Chair : Louis de Koker (LawTech LTU)

16 November

7. **2.30 pm – 3.15 pm.** Pablo Noriega and Enric Plaza (IIIA-CSIC): Policy Simulation as an Instance of the Value Alignment Problem

8. **3.15 pm – 4.00 pm.** Discussion. Chair: Nardine Osman (IIIA-CSIC)

30 November

9. **2.30 pm - 3.15 pm.** Nadia Pocher (IDT-UAB): Detecting Anomalous Cryptocurrency Transactions: AML/CFT/CPF applications of Machine Learning-based Forensics.

10. **3.15 pm – 4.00 pm.** Discussion. Chair: Carles Górriz (IDT-UAB)

14 December

11. **2.30 pm – 4.00 pm.** Carles Sierra and Nardine Osman (IIIA-CSIC): Value Engineering in AI

12. **3.15 pm – 4.00 pm.** Discussion. Chair: Enric Plaza (IIIA-CSIC)

Scientific Workshop

19 December

13. **9.00 am – 9.20 am.** Assumpció Malgosa (UAB Vice-chancellor Research Deputy), Patrick Keyzer (Dean of the Thomas More Law School, Australia), Carles Sierra (Head of IIIA-CSIC), Esther Zapater (UAB Secretary and Head of IDT-UAB), Susana Navas (Dean of the Faculty of Law, UAB)

1st Session: Legal Governance, Compliance and Policy

Chair: *Nardine Osman (IIIA-CSIC)*

14. **9.20 am – 9.50 am.** Pablo Noriega (IIIA-CSIC): Online Institutions.

15. **9.50 am – 10.20 am.** Harko Verhagen (Stockholm University, Sweden), Julian Padget (University of Bath, UK), Mark d'Inverno (Goldsmiths, University of London), Pablo Noriega (IIIIA-CSIC): Ethical (Online) Systems through Conscientious Design.

16. **10.20 am – 10.45 am.** Open Discussion.

2nd Session: Legal Governance, Compliance and Policy

Chair: *Pablo Noriega (IIIA-CSIC)*

17. **11.15 am – 11.35 am.** Pompeu Casanovas (IIIA-CSIC, IDT-UAB-LawTech LTU), Mustafa Hashmi (LawTech-LTU) and Louis de Koker (LawTech-LTU): Legal Governance Systems, Ethics and Law

18. **11.35 am – 12.00.** Marta Poblet (Royal Melbourne Institute of Technology, RMIT): Blockchain Governance.

19. **12.00 am – 12.30 pm.** José Antonio Fernández-Amor (IDT-UAB): Cryptoactives as Taxable Wealth.

20. **12.30 pm – 13.00 pm.** Open Discussion.

3rd Session: AI Applications in Health, Mobility and Corporate Environments

Chair: *Pompeu Casanovas (IIIA-CSIC/IDT-UAB/LawTech LTU)*

21. **14.00 pm – 14.20 pm.** José Ibeas (Nephrology Service of the Parc Taulí University Hospital (Sabadell, Barcelona) and coordinator of the Clinical, Interventional and Computational Nephrology Group (CICN) of the Research and Innovation Institute Parc Taulí): Artificial Intelligence Applied to Kidney Disease or the Challenge of Decision Support in Complex Patients

22. **14.20 am – 14.40 am.** Eliseo Sierra (IDT-UAB): Connected and Automated Mobility: Shaping Europe's digital future.

23. **14.40 pm – 15.00 pm.** Carles Górriz (IDT-UAB): Big Tech and AntiTrust: Lessons from a Transatlantic Comparison.

24. **15.00 pm – 15.30 pm.** Open Discussion

4th Session: Ethics and Law in Online Dispute Resolution, Blockchain and Industry 4.0

Chair: *Louis de Koker (LawTech, LaTrobe University, Melbourne)*

25. **15.30 pm – 15.50 pm.** Mercedes Martínez-González (University of Valladolid, UVA): Privacy Compliance: The ONTOROPA Project.

26. **15.50 pm – 16.10 pm.** Josep Suquet (IDT-UAB): Protecting the consumers of Over-the-Top Platforms.

27. **16.10 pm – 16. 30 pm.** Emma Teodoro and Andrea Guillén (UAB-IDT): Ethical and Legal aspects of Human-centricity in Smart Factories.

28. **16.30 pm – 16.55 pm.** Open Discussion

17.00– 17.20 Tea Break

5th Session: Ethics, Politics and Philosophy

Chair: *Esther Zapater*

29. **17.20 pm – 17.40 pm.** Wendy R. Simon (IDT-International University of Catalonia): Identity and the Foundations of Liberal Democracy

30. **17.40 pm – 18:00 pm.** Mario Macías (IDT-UAB): The Double Effect Principle: From Thomas Aquinas to its Current Meaning.

31. **18.00 pm – 18.20 pm.** Open Discussion

Closing Session

32. **18.20 pm – 18.35 pm.** Pompeu Casanovas, Pablo Noriega and Louis de Koker: Summary and Wrapping Up.

33. **18.35 pm – 18.45 pm.** Esther Zapater (UAB Secretary and Head of IDT-UAB) and Carles Sierra (Head of IIIA-CSIC): Closing and Final Words

3. AIGEL Proceedings (Table of Contents)

4. Organizers

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