

## Call for Papers

### *The Legal Dimensions of Quantum Computing*

Date: 28 - 30th of April 2022

Place: Faculty of Law, Lund University, Sweden

Deadline: 17 January 2022, notification by 31 January 2022

Contact: [conference@quantum-law.org](mailto:conference@quantum-law.org)

Quantum computers are legal things. They may also be strange, spooky or weird. But the tendency to describe them in such colourful terms must not distract from the fact that quantum computers are ultimately not a thing of magic, but technological tools that are bound to affect our lives in a tangible manner. As such, their development and their operation raise a host of legal questions. Some of those questions relate to the way in which technology conditions human behaviour. Like legal norms, technological norms can give effect to human choices by granting rights or restrict choice by prescribing specific modes of action. Other legal questions arise in connection with the long-recognized propensity of tools to enhance the powers of some and to deprive others of it. These questions arise both with respect to the design/construction of such computers and with respect to their application and utilisation for specific use-cases.

Against this background, the [Quantum Law Project](#) at Lund University is organizing a conference that aims to map and to explore the legal dimensions of quantum computing. We welcome submissions on any legal aspect of quantum computing, and we are especially interested in receiving abstracts that address the legal aspects of the following topics and questions:

- Which legal norms (domestic/regional/international) apply to the construction, design, and operation of quantum computers by companies, states, universities?
- Which legal strategies exist to ensure that the advent of quantum computers does not exacerbate already existing inequalities?
- What is the potential of quantum computers for the digitalisation of legal processes and for the emerging field of computational law?
- Are there specific legal challenges associated with the interface of quantum computing and artificially intelligent entities/processes?
- What are the applicable legal norms/legal challenges with respect to quantum computing's potential to revolutionise the field of financial tech?
- Are there specific challenges concerning e.g., privacy or IP law connected with the utilisation of quantum computers in the biomedical/health care sector?

- Which legal strategies are available to ensure that the advent of quantum computers does not lead to existing security and privacy mechanisms being undermined?
- To which extent can law itself be equated to a quantum system, a system that exhibits states akin to quantum phenomena such as ‘superposition’ or ‘entanglement’?

Abstracts of no more than 500 words should be submitted by e-mail to [conference@quantum-law.org](mailto:conference@quantum-law.org) by 17 January 2022. Selected speakers will be notified by 31 January 2022.

Following the conference, it is our intention to publish the proceedings of the conference as an edited collection with an international publisher.

### **About The Quantum Law Project at Lund University**

The [Quantum Law Project](#) at Lund University’s Faculty of Law is the first research project dedicated specifically to the study of the legal implications of quantum computing. The project is funded by and forms part of the Wallenberg Foundations’ ‘Initiative for Humanistic and Social Scientific Research in AI and Autonomous Systems’ (WASP-HS). The project team consists of Valentin Jeutner (Lund), Jeffery Atik (Los Angeles), Timo Minssen (Copenhagen), Karl M. Manheim (Los Angeles), Hoda Hosseiny (Lund), Jordi Mur-Petit (Barcelona).