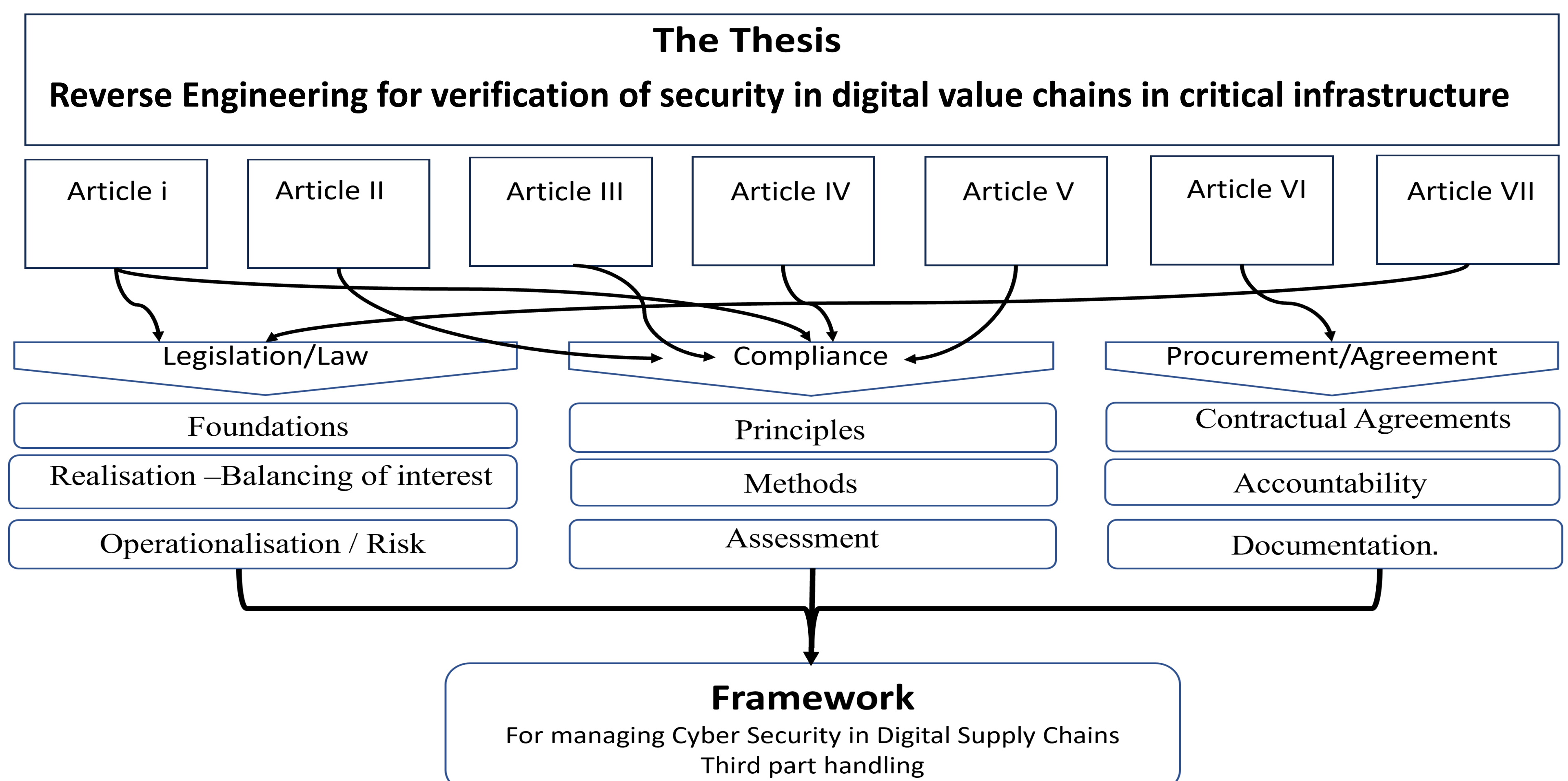




Reverse Engineering for verification of security in digital value chains in critical infrastructure

Arne Roar Nygård – ELVIA – Industrial PhD – end 2024

arne.nygard@ntnu.no - arne.roar.nygard@elvia.no - 95295325



How can organisations assess the trustworthiness of their digital supply chain, including suppliers and devices?

Article 1: Arne Roar Nygård and Sokratis Katsikas. 2022. **SoK: Combating threats in the digital supply chain**. In Proceedings of the 17th International Conference on Availability, Reliability and Security (ARES '22). Association for Computing Machinery, New York, NY, USA, Article 128, 1–8. <https://doi.org/10.1145/3538969.3544421>

Article 2: Nygård, A.; Sharma, A. and Katsikas, S. (2022). **Reverse Engineering for Thwarting Digital Supply Chain Attacks in Critical Infrastructures: Ethical Considerations**. In *Proceedings of the 19th International Conference on Security and Cryptography*, ISBN 978-989-758-590-6, ISSN 2184-7711, pages 461-468. DOI: 10.5220/0011384300003283

Article 3: Nygård, A. and Katsikas, S. (2023). **Leveraging Hardware Reverse Engineering to Improve the Cyber Security and Resilience of the Smart Grid**. In Proceedings of the 20th International Conference on Security and Cryptography, ISBN 978-989-758-666-8, ISSN 2184-7711, pages 610-616. DOI: 10.5220/0012046000003555

Article 4: [Nygård, A.R.](#) and [Katsikas, S.K.](#) (2024), **Ethical hardware reverse engineering for securing the digital supply chain in critical infrastructure**, *Information and Computer Security*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/ICS-10-2023-0182>

Article 5: IntechOpen Book Series - **“The Role of Cybersecurity in the Industry 5.0 Era”** edited by Prof. Christos Kalloniatis – **Chapter „Hardware Reverse Engineering for Secure Smart Grids”** Arne Roar Nygård, Arvind Sharma and Sokratis Katsikas, ISBN 978-0-85014-484-0

Article 6: Aikaterina C. Latsiou, Arne Roar Nygård, Sokratis Katsikas, and Costas Lambrinoudakis, **“Never Trust – Always Verify: Managing Cybersecurity Risk in the Digital Supply Chain”** Submitted

Article 7: Arne Roar Nygård and Sokratis Katsikas. 2024, **“Digital supply chain security for power sector operators in the light of the new EU directives and regulation”** Submitted