



UNIVERSITY OF TARTU

Institute of Computer
Science

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DECEPTWIN: Proactive Security Approach for IoV by Leveraging Deception-based Digital Twins and Blockchain

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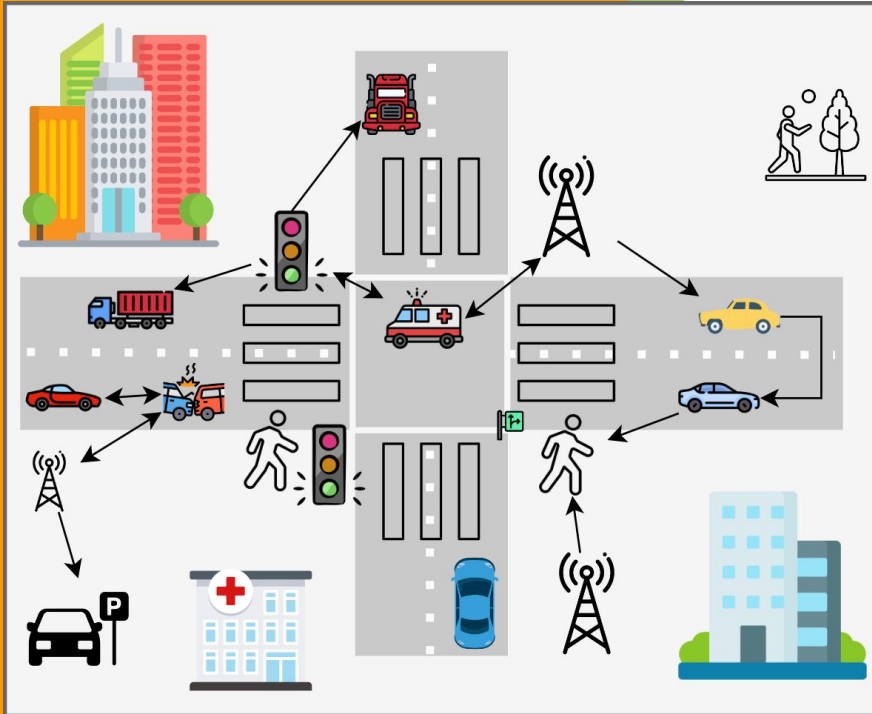
University of Tartu, Estonia

Research paper is available at: <https://dl.acm.org/doi/10.1145/3664476.3670473>



Emerging security attacks:

- Jeep Cherokee remote hijacking attacks
- Rav4 CAN injection attack

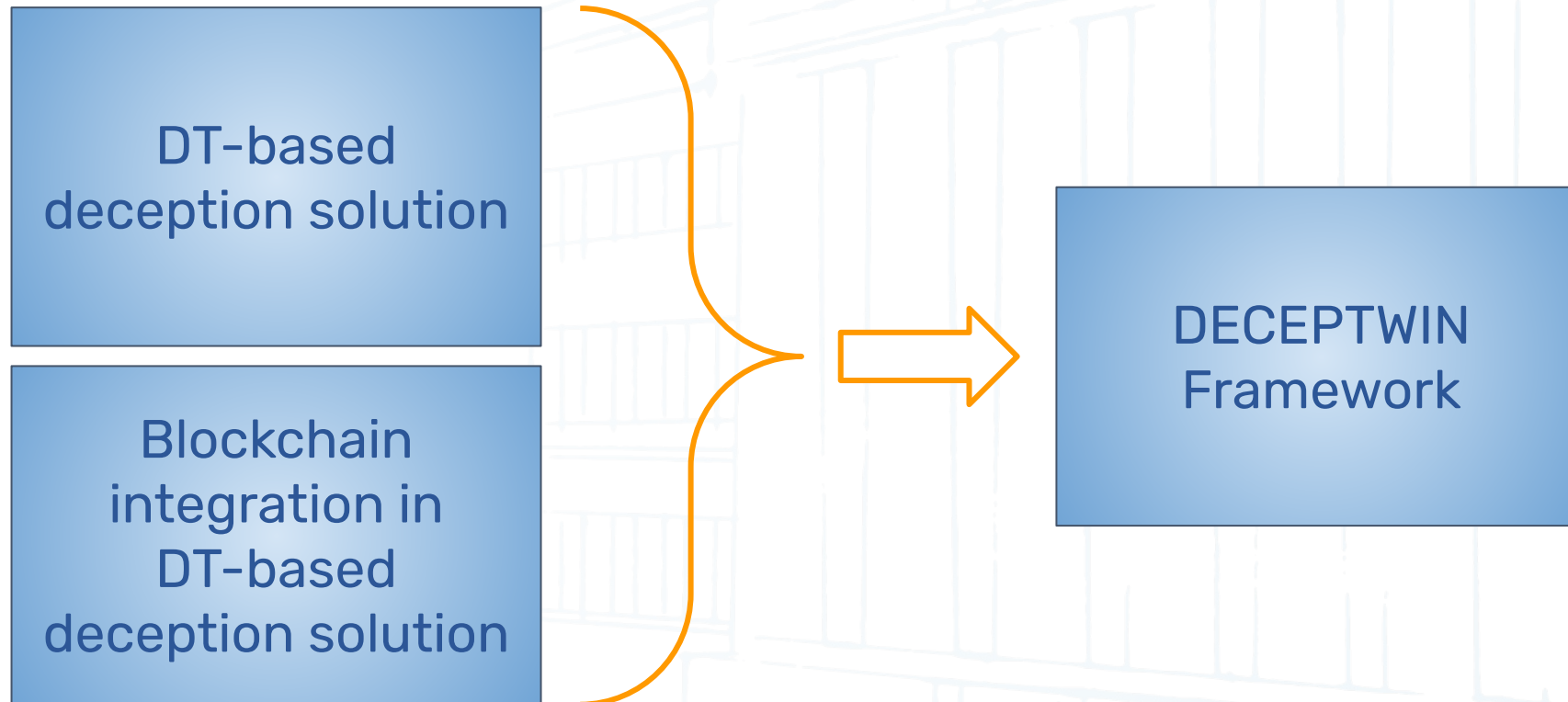


Internet of
Vehicles (IoV)



DECEPTWIN Framework

*Proactive security approach for IoV by leveraging **DECEPTION**-based digi**Tal** t**W**ins and blockcha**IN** (DECEPTWIN).*



Why DECEPTWIN?



- **High-fidelity**, closely mimic real systems
 - Enhanced **interaction** capabilities
 - **Scalable** and **handles complexity**
- Capability to **analyze** large volumes of generated **data** in **real-time**
- **Secure communication, data integrity, and traceability** in deception environment





Thank You!

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