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Cybersecurity

- CE Design → Trade-off (Cost, Energy consumption, Security level, Intelligence)
- CE Security/Privacy/IP → System, Data
- Original Blockchain → Decentralized, Public, Untrusted-Nodes → Significant energy
- Novel Proof-of-Authentication (PoAh) for Private → 200X improvement over PoW
- Physical Unclonable Function (PUF) → Low-overhead system security



Home Health Care

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- Edge- Vs Cloud-Computing for healthcare
- Smart healthcare → Non-wearable, Wearable → Accurate AI model, Prediction
- Smart healthcare → Security, Privacy → Safety → PUF based Security for Implantable → Privacy of Stored EHR
- Stress-Log: Automatic monitoring of food intake accounting the effects of stress
- Neuro-Edge: IoMT-Edge Device → Seizure Early Detection in few sec → Drug Delivery