Patent title	Huawei disclosu	CNIPA applicatio	List of authors		
An Efficient, Secure Big-data Processing and Programming System based on Trusted Execution En	**86527835**	**CN 2020103665**	**Jianyu Jiang, Xusheng Chen, Cheng Wang, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang**		
CRONUS: Fault-isolated, Secure and High-performance Heterogeneous Computing for Trusted Exec	**92013765**	**CN 2022101388**	**Jianyu Jiang, Heming Cui, Sen Wang, Li Chen, and Gong Zhang**		
Slarm: SLA-aware, Reliable and Efficient Transaction Dissemination for Permissioned Blockchains	**92057642**	**CN 2024112275**	**Ji Qi, Tianxiang Shen, Heming Cui, Jianyu Jiang, Sen Wang, Gong Zhang**		
ECStore: Achieving Efficient and Compressible Indexing on Encrypted Databases	**92053093**	**CN 2024106500**	**Tianxiang Shen, Qi Hu, Heming Cui, Jianyu Jiang, Sen Wang, Gong Zhang**		
An Automated, Accurate and Efficient Differentially Private Big-data Mining System	**86774788**	**CN 2020105066**	**Tsz On Li, Jianyu Jiang, Ji Qi, Chi Chiu So, Heming Cui, Sen Wang, Peng Wang, Gong Zhang**		
Soter: Guarding Black-box Inference for General Neural Networks at the Edge	**92013413**	**N/A**	**Tianxiang Shen, Xusheng Chen, Heming Cui, Sen Wang, Li Chen, Gong Zhang**		
GOLFDB: Achieving Secure and High-performance OLAP via GPU-accelerated Homomorphic Cachi	**92071394**	**N/A**	**Qi Hu, Wei Chen, Heming Cui, Sen Wang, Gong Zhang**		
Fold3D: High-performance 3D Parallel DNN Training via Parallelizing Computation and Communication Tas	92013762	CN 2023101584	Fanxin Li, Shixiong Zhao, Heming Cui, Sen Wang, Li Chen, and Gong Zhang		
NASPipe: High Performance and Reproducible Pipeline Parallel Supernet Training via Causal Synchronous	92013415	CN 2022101388	Shixiong Zhao, Fanxin Li, Heming Cui, Sen Wang, Li Chen, and Gong Zhang		
Themis: Automatic and Efficient Deep Learning System Testing with Strong Fault Detection Capability	92003188	CN 2021113720	Tsz On Li, Dong Huang, Heming Cui, Sen Wang,Li Chen,Gong Zhang		
A high-performance DNN training system with efficient and scalable pipelined parallelism on GPUs	87190862	92000692CN01	Shixiong Zhao, Fanxin Li, Xusheng Chen, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang		
A system in achieving low tail-latency and high scalability for serializable transactions in edge computing	87163691	CN 2021101523	Xusheng Chen, Haoze Song, Jianyu Jiang, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang,		
BIDL: A High-throughput, Low-latency Permissioned Blockchain Framework for Datacenter Networks	87163710	CN 2021110806	Ji Qi, Xusheng Chen, Yunpeng Jiang, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang		
A decentralized, secure and reliable network communication system via SGX	87138572	CN 2021100485	Tianxiang Shen, Jianyu Jiang, Yunpeng Jiang, Ji Qi, Xusheng Chen, Shixiong Zhao, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang		
An Efficient, DoS Resistant Consensus Protocol for Permissioned Blockchains	87190862	CN 2020102476	Xusheng Chen, Shixiong Zhao, Jianyu Jiang, Heming Cui, Sen Wang, Peng Wang, and Gong Zhang		