Digital trust and identity researcher

Shield Lab, Huawei

About us

Founded in 2010, the Shield Lab of Trustworthiness Theory, Technology and Engineering Lab at Huawei 2012 Lab continues to lead the company in information security research.

We commit ourselves to identifying key security problems that challenge traditional security fundamentals in emerging ICT domains such as telecommunication networks, artificial intelligence, cloud computing and mobile internet services etc., establishing and carrying on leading-edge research projects, and delivering breakthrough research results that may help our corporate to establish competiveness in enterprise, consumer, and operator markets.

Job description

Position: Senior Researcher/Expert

Location: Paris, France

We are looking for a technical expert specialising in decentralised identity, self-sovereign identity, authentication and authorization, digital trust models, trust evaluation and trust management framework for the digital world. The candidate should have solid knowledge in one or several of the following areas:

- Trust Models: Bayesian network-based trust model, Entropy-based trust model, MLbased trust model for digital relationship of humans and things
- Decentralized Identities: SSI, DID, Verifiable credentials, sidetree protocol
- Blockchain technologies: Consensus algorithms, Privacy protection protocols
- Knowledge of AI: Deep learning, Reinforcement learning
- Knowledge of cryptography: PKI, ZKP, IBS, ABS
- Knowledge of authentication protocols: OAuth, SAML, EAP-TLS, EAP-AKA.

The candidate should have passion on doing research, and should be able to conduct research on trust and identity management for various scenarios. Experience on internet of things networks is an advantage.

Duties and responsibilities (one or several of them):

- Contribute to trust models, trust evaluation, trust management framework and digital identity management for the future digital world

- Publish related papers in top conferences/journals

Desired skills

Skills/qualifications:

- PhD in Computer Science, Computer Engineering, Mathematics or related field with 10+ years of experience in trust management or digital identity design area.
- Solid knowledge and experience in trust management or digital identity. Familiar with network security, authentication protocols, cryptography, blockchain technologies and artificial intelligence.
- Familiar with practical scenarios like internet of things networks or vehicular networks.

Apply

If you are interested in this position, please contact Dr. Tieyan Li directly at li.tieyan@huawei.com.