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Advancing Computing as a Science & Profession

CCSW '21

Proceedings of the 2021
Cloud Computing Security Workshop

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ACM SIGSAC

Program Chairs:

Yinqian Zhang, Southern University of Science and Technology
Marten van Dijk, Centrum Wiskunde & Informatica

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CCSW 2021 Chairs' Welcome

It is our great pleasure to welcome you to the 12th anniversary of the *ACM Cloud Computing Security Workshop*. CCSW is the world's premier forum bringing together researchers and practitioners in all security aspects of cloud-centric and outsourced computing including:

- Side channel attacks
- Practical cryptographic protocols for cloud security
- Secure cloud resource virtualization mechanisms
- Secure data management outsourcing (e.g., database as a service)
- Practical privacy and integrity mechanisms for outsourcing
- Foundations of cloud-centric threat models
- Secure computation outsourcing
- Remote attestation mechanisms in clouds
- Sandboxing and VM-based enforcements
- Trust and policy management in clouds
- Secure identity management mechanisms
- New cloud-aware web service security paradigms and mechanisms
- Cloud-centric regulatory compliance issues and mechanisms
- Business and security risk models and clouds
- Cost and usability models and their interaction with security in clouds
- Scalability of security in global-size clouds
- Trusted computing technology and clouds
- Binary analysis of software for remote attestation and cloud protection
- Network security (DOS, IDS etc.) mechanisms for cloud contexts
- Security for emerging cloud programming models
- Energy/cost/efficiency of security in clouds
- Machine learning for cloud protection

CCSW especially encourages novel paradigms and controversial ideas that are not on the above list. The workshop has historically acted as a fertile ground for creative debate and interaction in security-sensitive areas of computing impacted by clouds.

This year marked the 12th anniversary of CCSW. In the past decade, CCSW has had a significant impact in our research community. This year, CCSW received 31 submissions out of which 10 full papers (32%) were accepted. We are very grateful to each of our Program Committee members for their great work on a tight timeline. We hope that you will enjoy CCSW 2021 as much as we enjoyed putting it together. You can visit us on the web at https://ccsw.io.

Yinqian Zhang
Southern University of Science and Technology, China

Marten van Dijk
CWI, Netherlands

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