# Z. BERKAY CELIK

Assistant Professor of Department of Computer Science, Purdue University LWSN 1187, 305 N. University Street West Lafayette, IN 47907-2107, USA zcelik@purdue.edu <a href="https://beerkay.github.io/">https://beerkay.github.io/</a> <a href="https://beerkay.github.io/">https://beerkay.github.io/<a href="https://beerkay.github.io/">https://beerkay.

Updated: September 1, 2021

# **EDUCATION**

2014 - 2019	<ul> <li>The Pennsylvania State University, Ph.D. in Computer Science and Engineering</li> <li>Thesis: Automated IoT Security and Privacy Analysis</li> <li>Advisor: Professor Patrick McDaniel</li> </ul>
2009 - 2011	<ul> <li>The Pennsylvania State University, M.S. in Computer Science</li> <li>Minor in Computational Science</li> <li>Thesis: Salting Public Traces with Attack Traffic to Test Flow Classifiers</li> <li>Advisor: Professor George Kesidis</li> </ul>
2002 - 2006	Naval Academy (Istanbul, Turkey), B.S. in Computer Science (summa cum laude)

# ACADEMIC AND RESEARCH APPOINTMENTS

Computer Science, Purdue University Assistant Professor	West Lafayette, IN, USA Aug 2020– <i>present</i>
Systems and Internet Infrastructure Security (SIIS) Laboratory	University Park, PA, USA
Lead Graduate Student	Jan 2019–Aug 2020
Pennsylvania State University, SIIS Laboratory	University Park, PA, USA
Computer Security Graduate Research Assistant	Aug 2014–Aug 2020
Computer Networks Research Laboratory, Istanbul Technical University Researcher	Istanbul, Turkey Aug 2011–Aug 2014
Pennsylvania State University, Network Sciences and Communications Lab	University Park, PA, USA
Graduate Student Member	Jan 2010–Aug 2011

# INDUSTRIAL EXPERIENCE

VMware, CTO Office, Hypervisor Team	Cambridge, MA, USA
Research Intern, Mentored by Josh Simmons	May 2017–Aug 2017
Vencore Labs	Basking Ridge, NJ, USA
Research Intern, Mentored by Dr. Ritu Chadha and Dr. Rauf Izmailov	May 2015–Aug 2015
Turkish Naval Forces	Turkey
Software Engineer	Aug 2011–May 2014

# **AWARDS AND HONORS**

# Internal to Purdue

♦ Most Influential Professor in Computer Science, Purdue Graduate Student Board (GSB), April 2020.

#### EXTERNAL TO PURDUE

- ♦ Best paper award, Security and Privacy in Communications Network (SecureComm), August 2018.
- The most amusing talk award, Program Analysis of IoT Implementations, USENIX Summit on Hot Topics in Security (colocated with USENIX Security), August 2018.
- Best demonstration award, Sensitive Information Tracking in Commodity IoT, Florida Institute for Cybersecurity Research (FICS), March 2017.
- ♦ Student travel awards, NDSS (2019), ACM ASIACCS (2018), MILCOM (2015).
- ♦ Summer research grant award, PSU Summer Tuition Assistance Fellowship, 2015 and 2017.
- ♦ Research assistantship, The Pennsylvania State University, 2014–2019.
- ♦ Exceptional academic achievement, Turkish Naval Academy Honor List, 2002–2006.

## **PUBLICATIONS**

My undergraduate  $(^{U})$  and graduate  $(^{G})$  advisees and co-advisees are shown with <u>dashed underline</u> for clarity. Acceptance rates are shown where available.

# REFEREED JOURNAL ARTICLES

- [J1]. Amit Sikder, Leonardo Babun, <u>Z. Berkay Celik</u>, Abbas Acar, Engin Kirda, Patrick McDaniel, and Selcuk Uluagac, **Who's Controlling My Device? Multi-User Multi-Device-Aware Access Control System for Shared Smart Home**, ACM Transactions on Internet of Things (ACM TIOT), 2021 (To appear)
- [J2]. Kyle Denney, Leonardo Babun, <u>Z. Berkay Celik</u>, Patrick McDaniel, and Selcuk Uluagac, **A Survey on IoT Platforms: Communication, Security, and Privacy Perspectives**, Computer Networks, Volume 192, 108040, ISSN 1389-1286, 2021
- [J3]. <u>Z. Berkay Celik</u>, Earlence Fernandes, Eric Pauley, Gang Tan, and Patrick McDaniel, **Program Analysis of Commodity IoT Apps for Security and Privacy: Opportunities and Challenges**, ACM Computing Surveys (CSUR), 52, 4, Article 74, 2019
- [J4]. Z. Berkay Celik, Patrick McDaniel, and Thomas Bowen, Malware Modeling and Experimentation through Parameterized Behavior, In Defense Modeling and Simulation, vol. 15(1), pages 31-48, 2018

## Refereed Conference Proceedings

- [C5]. <u>Yi-Shan Lin G</u>, Wen-Chuan Lee, and <u>Z. Berkay Celik</u>, **What Do You See? Evaluation of Explainable Artificial Intelligence (XAI) Interpretability through Neural Backdoors**, ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD), 2021, (Acceptance Rate 15.4%).
- [C6]. Khaled Serag<sup>G</sup>, Rohit Bhatia, Vireshwar Kumar, Z. Berkay Celik, and Dongyan Xu, Exposing New Vulnerabilities of Error Handling Mechanism in CAN, Proceedings of the USENIX Security Symposium, 2021, (Acceptance Rate: 18.8%).
- [C7]. <u>Abdulellah Alsaheel G</u>, Yuhong Nan, Shiqing Ma, Le Yu, Gregory Walkup, <u>Z. Berkay Celik</u>, Dongyan Xu, and Xiangyu Zhang, **ATLAS: A Sequence-based Learning Approach for Attack Investigation**, Proceedings of the USENIX Security Symposium, 2021, (Acceptance Rate: 18.8%).
- [C8]. Hyungsub Kim<sup>G</sup>, M. Ozgur Ozmen<sup>G</sup>, Antonio Bianchi, Z. Berkay Celik, and Dongyan Xu, **PGFUZZ**: **Policy-Guided Fuzzing for Robotic Vehicles**, Proceedings of the Network and Distributed System Security Symposium (NDSS), 2021, (Acceptance Rate: 15.2%).
- [C9]. Rohit Bhatia, Vireshwar Kumar, Khaled Serag<sup>G</sup>, Z. Berkay Celik, Mathias Payer, and Dongyan Xu, Evading Voltage-Based Intrusion Detection on Automotive CAN, Proceedings of the Network and

- Distributed System Security Symposium (NDSS), 2021, (Acceptance Rate: 15.2%)
- [C10]. <u>Habiba Farrukh</u><sup>G</sup>, Tinghan Yang, Yuxuan Yin, Hanwen Xu, He Wang, and <u>Z. Berkay Celik</u>, **S3:** Side-channel Attack on Stylus Pencil Through Sensors, The ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp), 5, 1, Article 8, March, 2021
- [C11]. Leonardo Babun, Z. Berkay Celik, Patrick McDaniel, and Selcuk Uluagac, Real-time Analysis of Privacy-(un)aware IoT Applications, Proceedings on Privacy Enhancing Technologies (PoPETS), no.1, pp.145-166, 2021, (Acceptance Rate: 18.6%)
- [C12]. Adrien Cosson, Amit Sikder, Leonardo Babun, <u>Z. Berkay Celik</u>, Patrick McDaniel and Selcuk Uluagac, **Sentinel: A Robust Intrusion Detection System for IoT Networks Using Kernel-Level System Information**, ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI), 2021, (Acceptance Rate: 25%)
- [C13]. Amit Sikder, Leonardo Babun, <u>Z. Berkay Celik</u>, Abbas Acar, Engin Kirda, Patrick McDaniel, and Selcuk Uluagac, **KRATOS: Multi-User Multi-Device-Aware Access Control System for the Smart Home**, ACM Conference on Security and Privacy in Wireless and Mobile Networks (ACM WiSec), 2020
- [C14]. Michael Norris, <u>Z.Berkay Celik</u>, Prasanna Venkatesh, Shulin Zhao, Gang Tan, Patrick McDaniel, and Anand Sivasubramaniam, **IoTRepair: Systematically Addressing Device Faults in Commodity IoT**, ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI), 2020
- [C15]. Z. Berkay Celik, Gang Tan, and Patrick McDaniel **IoTGuard: Dynamic Enforcement of Security and Safety Policy in Commodity IoT**, Proceedings of the Network and Distributed System Security Symposium (NDSS), 2019, (Acceptance Rate: 17%)
- [C16]. Z. Berkay Celik, Abbas Acar, Hidayet Aksu, Ryan Sheatsley, Patrick McDaniel, and Selcuk Uluagac, Curie: Policy-based Secure Data Exchange, ACM Conference on Data and Application Security and Privacy (CODASPY), 2019, (Acceptance Rate: 23.5%)
- [C17]. <u>Z. Berkay Celik</u>, Patrick McDaniel, and Gang Tan, **Soteria: Automated IoT Safety and Security Analysis**, Proceedings of the USENIX Annual Technical Conference (USENIX ATC), 2018, (Acceptance Rate: 19%)
- [C18]. Z. Berkay Celik, Leonardo Babun, Amit K. Sikder, Hidayet Aksu, Gang Tan, Patrick McDaniel, and Selcuk Uluagac, **Sensitive Information Tracking in Commodity IoT**, Proceedings of the USENIX Security Symposium, 2018, (Acceptance Rate: 18%)
- [C19]. Z. Berkay Celik, Patrick McDaniel, Rauf Izmailov, Nicolas Papernot, Ryan Sheatsley, Raquel Alvarez, and Ananthram Swami, **Detection under Privileged Information**, Proceedings of the Asia Conference on Computer and Communications Security (ASIACCS), 2018, (Acceptance Rate: 20%)
- [C20]. Sayed Saghaian, Tom La Porta, Trent Jaeger, <u>Z. Berkay Celik</u>, and Patrick McDaniel, **Mission-oriented Security Model**, **Incorporating Security Risk**, **Cost and Payout**, Proceedings of the Security and Privacy in Communication Networks (SecureComm), 2018, **(Best Paper Award)**
- [C21]. Z. Berkay Celik, David Lopez-Paz, and Patrick McDaniel, **Patient-Driven Privacy Control through Generalized Distillation**, Proceedings of the IEEE Privacy-aware Computing (PAC), 2017
- [C22]. Nicolas Papernot, Patrick McDaniel, Ian Goodfellow, Somesh Jha, <u>Z. Berkay Celik</u>, and Ananthram Swami, **Practical Black-Box Attacks against Machine Learning**, Proceedings of the Asia Conference on Computer and Communications Security (ASIACCS), 2017, (Acceptance Rate: 20%)
- [C23]. Abbas Acar, Z. Berkay Celik, Hidayet Aksu, A. Selcuk Uluagac, and Patrick McDaniel, Achieving

- Secure and Differentially Private Computations in Multiparty Settings, Proceedings of the IEEE Privacyaware Computing (PAC), 2017
- [C24]. Z. Berkay Celik, Nan Hu, Yun Li, Nicolas Papernot, Patrick McDaniel, Robert Walls, Jeff Rowe, Karl Lewitt, Novella Bartolini, Tom LaPorta, and Ritu Chadha, **Mapping Sample Scenarios to Operational Models**, Proceedings of the IEEE International Conference for Military Communications (MILCOM), 2016
- [C25]. Nicolas Papernot, Patrick McDaniel, Somesh Jha, Matt Fredrikson, <u>Z. Berkay Celik</u> and Ananthram Swami, **The Limitations of Deep Learning in Adversarial Settings**, Proceedings of the European Symposium on Security and Privacy (Euro S&P), 2016, (Acceptance Rate: 17.3%)
- [C26]. Z. Berkay Celik, Robert J Walls, Patrick McDaniel, and Ananthram Swami, Malware Traffic Detection using Tamper Resistant Features, Proceedings of the IEEE Military Communications (MILCOM) Conference, 2015
- [C27]. Z. Berkay Celik and Sema Oktug, **Detection of Fast-flux Networks using Various DNS Feature Sets**, Proceedings of the IEEE Computers and Communications Symposium (ISCC), 2013

#### REFEREED WORKSHOP PUBLICATIONS

- [W28]. <u>Siddharth Divi<sup>G</sup></u>, <u>Yi-Shan Lin<sup>G</sup></u>, <u>Habiba Farrukh<sup>G</sup></u>, and <u>Z. Berkay Celik</u>, **New Metrics to Evaluate the Performance and Fairness of Personalized Federated Learning**, International Workshop on Federated Learning for User Privacy and Data Confidentiality, FL-ICML (colocated with ICML), Poster and Oral presentation, 2021
- [W29]. Furkan Goksel<sup>U</sup>, M. Ozgur Ozmen<sup>G</sup>, Michael Reeves<sup>G</sup>, B. Shivakumar<sup>G</sup>, and Z. Berkay Celik, On the Safety Implications of Misordered Events and Commands in IoT Systems, IEEE S&P SafeThings Workshop (colocated with IEEE S&P), 2021
- [W30]. Paul Berges, <u>B. Shivakumar</u><sup>G</sup>, Timothy Graziano, Ryan Gerdes, and <u>Z. Berkay Celik</u>, **On the Feasibility of Exploiting Traffic Collision Avoidance System Vulnerabilities**, IEEE Workshop on Cyber-Physical Systems Security (CPS-Sec) (colocated with IEEE CNS), 2020
- [W31]. Z. Berkay Celik and Patrick McDaniel, Extending Detection with Privileged Information via Generalized Distillation, IEEE Workshop on Deep Learning and Security (colocated with IEEE S&P), 2018
- [W32]. <u>Z. Berkay Celik</u>, Patrick McDaniel, and Rauf Izmailov, **Feature Cultivation in Privileged Information augmented Detection**, Proceedings of the Security And Privacy Analytics Workshop (CODASPY, IWSPA), 2017 (Invited paper)
- [W33]. Z. Berkay Celik, Jayaram Raghuram, George Kesidis, and David J. Miller, Salting Public Traces with Attack Traffic to Test Flow Classifiers, Proceedings of USENIX Security Workshop on Cyber Security and Experimentation (CSET), 2011

## Refereed Magazine Articles

- [CL34]. Z. Berkay Celik, Patrick McDaniel, Gang Tan, Selcuk Uluagac, and Leonardo Babun, Verifying IoT Safety and Security in Physical Spaces, IEEE Security & Privacy Magazine, 2019
- [CL35]. Patrick McDaniel, Nicolas Papernot and <u>Z. Berkay Celik</u>, **Machine Learning in Adversarial Settings**, IEEE Security & Privacy Magazine, 2016

#### TECHNICAL REPORTS

[T36]. Z. Berkay Celik, Patrick McDaniel, and Rauf Izmailov, **Proof and Implementation of Algorithmic Realization of Learning Using Privileged Information (LUPI) Paradigm: SVM+**, NSCR, Department of CSE, Pennsylvania State University, Tech. Rep. NAS-TR-0187-2015

#### Thesis

[Th37]. Z. Berkay Celik, Automated IoT Security and Privacy Analysis, PhD Thesis, Pennsylvania State University, August 2019

[Th38]. Z. Berkay Celik, Salting Public Traces with Attack Traffic to Test Flow Classifiers, Master Thesis, Pennsylvania State University, August 2011

#### **INVITED TALKS**

#### SAFETY AND SECURITY ANALYSIS OF IOT SYSTEMS

- ⋄ April 2019: University of Rochester
- ♦ April 2019: Lehigh University
- ♦ March 2019: Boston University
- March 2019: The University of Texas at Dallas
- March 2019: Oregon State University
- ♦ March 2019: Duke University
- March 2019: George Washington University
- ♦ March 2019: Syracuse University
- March 2019: University of Arizona
- ♦ February 2019: Drexel University
- ♦ February 2019: The College of William & Mary
- February 2019: Stevens Institute of Technology
- ♦ February 2019: Dartmouth College
- ♦ February 2019: Worcester Polytechnic Institute
- ♦ February 2019: The University of California, Irvine
- January 2019: University of Pittsburgh

# PROGRAM ANALYSIS OF IOT SYSTEMS FOR SECURITY AND PRIVACY

- ♦ November 2018: University of Florida
- ♦ October 2018: Worcester Polytechnic Institute
- ♦ September 2018: Northeastern University
- August 2018: USENIX Security Lighting Talk Session
- August 2018: USENIX HotSec Workshop
- ♦ April 2018: CSE 597 Wireless and Mobile Security, Penn State University
- ♦ April 2018: Army Research Laboratory
- ♦ March 2018: CMPSC 443 Computer Security, Penn State University
- ♦ June 2017: University of California, Davis
- April 2017: Great Lakes Security Day, Rochester Institute of Technology

# DETECTION FOR SECURITY UNDER PRIVILEGED INFORMATION

# Z. Berkay Celik

- ♦ December 2016: Istanbul Technical University
- September 2016: Florida International University
- ♦ September 2016: Institute for Networking and Security Research, Penn State University
- May 2016: Indiana University

# SECURITY AND PRIVACY OF MACHINE LEARNING SYSTEMS

- ♦ December 2018: CSE 543 Computer Security, Penn State University (Adversarial ML lecture)
- ♦ August 2018: VMware Monitor Team
- ♦ July 2018: VMware CTO Office
- ♦ July 2017: College of Engineering Symposium, Penn State University

# Malware Detection and Cyber Operation Modeling

- ♦ March 2016: Army Research Laboratory
- ♦ March 2016: George Mason University
- August 2015: Vencore Labs
- ♦ June 2015: University of California, Riverside

#### STUDENT ADVISING

#### CURRENT PHD STUDENTS

- ♦ Habiba Farrukh. Fall'20
- Reham Mohamed Aburas, Fall'20
- ♦ M. Ozgur Ozmen, Spring 20
- Arjun Arunaslam, Fall 20

## CURRENT CO-ADVISING PhD STUDENTS

- ♦ Ruoyu Song, Spring 21 (co-Advised with Antonio Bianchi)
- Abdulellah Alsaheel, PhD (co-advised with Dongyan Xu)
- Khaled Serag, PhD (co-advised with Dongyan Xu)

## CURRENT MSC STUDENTS

- Jackson Bizjak (Fall 20 Present)
- ♦ Eliz Tekcan (Spring 21 Present)
- Abhinav Gupta (Fall 21 Present)
- ♦ Gaurav Jadhav (Fall 21 Present)

## GRADUATED MASTER THESIS STUDENTS

- ♦ Siddharth Divi, 2021
  - Thesis title: Unifying Distillation with Personalization in Federated Learning
  - Thesis Committee: Ming Yin and Kamyar Azizzadenesheli
  - Last Employment: Amazon
- Michael Reeves, 2021
  - Thesis title: Investigating Escape Vulnerabilities in Container Runtimes
  - Thesis committee: Dave Tian and Antonio Bianchi
  - Last Employment: Sandia Labs

## INDEPENDENT STUDY MSC STUDENTS

♦ Yi-Shan Lin (Msc), Research Advisor, 2021

- ♦ Basavesh Shivakumar (Msc), Research Advisor (PhD at MPI-SP), 2020
- ♦ Zhanfu Yang (Msc), Research Advisor (PhD at Stevens Institute of Technology), 2020
- ♦ Akhil Bandarupalli (Msc), Research Advisor, (PhD at Purdue CS), 2020

## SUPERVISED UNDERGRADUATE RESEARCH

#### CURRENT UNDERGRADUATE STUDENTS

- ♦ Jason Perry, senior, Purdue CS, Modeling and Verification of Binaural Beat Tracks
- ♦ Haozhe Zhou, senior, Purdue CS, Side-Channel attacks on Mobile Devices
  - College of Science Alumni Summer Research Fellowship, 2021
- ♦ Varun Gannavarapu, junior, Purdue CS, Analysis of Illicit Account Marketplaces

## PAST UNDERGRADUATE STUDENTS

- ♦ Andrew Chun-An Chu (Senior, CS, 2019-2021),
  - Honorable mention for the 2021 NSF GRFP fellowship
  - PhD at University of Chicago (Fall 21)
- ♦ Rouyu Song (Senior, CS, Fall 20/Summer 20),
  - Now PhD under my supervision
- William Carter Bell, (Junior, Data Science, Summer 20),
- Anirudh Giridhar (Junior, CS, Summer'20),
- ♦ Sidhartha Agrawal (Sophomore, CS, Summer'20)
- Yizhen Yuan, (Junior, Purdue CS, Summer 20),
- ♦ Ishan Kaul, (Senior, CS, Summer 20),
- ♦ Yuxuan Yang (Junior, Summer'20),
- ♦ Rafael Zhu, (Freshman, CS, Summer 20/Fall 20).

#### EXTERNAL RESEARCH INTERNS

- ⋄ Furkan Goksel (Senior, CS, METU (Turkey), Summer'20, Online GoBoiler Internship program)
- ♦ Kerem Ors (Msc, CS, Sabanci University (Turkey), Summer'20, Online GoBoiler Internship program)
- ♦ Yigit Varli (Senior, CS, METU (Turkey), Summer'21, Voluntary, Online)
- Bharat Chandra (Senior, Vellore Institute of Technology (India), Summer'21, Voluntary, Online)
- Anirudh Gupta and Mohit Thakur (Junior, IIT Delhi (India), Summer'21, Voluntary, Online)

## TEACHING EXPERIENCE

Unless noted otherwise, all courses are 3-credit courses.

#### PURDUE UNIVERSITY

Significantly redesigned the syllabus of the CS 529 Security Analystics course to include topics on security and privacy of machine learning.

- ♦ Fall 2021: CS 529: Security Analytics (33 students)
- ♦ Spring 2021: CERIAS Seminar, CS-591-SEC, 1 credit, (17 students)
- ♦ Spring 2021: CS 529: Security Analytics (Online Course Preparation)
- ♦ Fall 2020: CS 529: Security Analytics (16 students)
- Spring 2020: CS 590: IoT/CPS Security (9 students)
- ♦ Fall 2019: CS 529: Security Analytics (23 students)

PENN STATE UNIVERSITY (During Ph.D.)

## Z. Berkay Celik

## ♦ Co-instructor

- CSE 597: Security and Privacy of Machine Learning (Fall 2016)
- CSE 597: Advanced Topics in the Security and Privacy of Machine Learning (Spring 2017)

#### Guest lecturer

- CMPSC 443: Introduction to Computer and Network Security (Spring 2017, Fall 2018)
- CMPSC 311: Introduction to Systems Programming (Fall 2016)
- CSE 597: Wireless and Mobile Security (Fall 2017)
- CSE 543: Computer Security (Fall 2018)

## PROFESSIONAL LEADERSHIP AND SERVICE

## TECHNICAL PROGRAM COMMITTEE

- ♦ 2022, NDSS
- ♦ 2022, 2021, USENIX Security
- ♦ 2021, ACSAC
- ♦ 2021, CCS (Hardware, Side Channels, and Cyber-Physical Systems Track)
- ♦ 2021, Workshop on Internet of Safe Things (co-located with IEEE S&P)
- ♦ 2021, European Symposium on Research in Computer Security (ESORICS)
- ♦ 2020, SecureComm
- 2020, Workshop on Trustworthy ML (co-located with ICLR)
- ♦ 2020, European Symposium on Research in Computer Security (ESORICS)
- ♦ 2020, 2019, Uncertainty in Artificial Intelligence (UAI)
- ♦ 2020, IEEE Computer Security Foundations Symposium (CSF)
- ♦ 2019, CCS Workshop on the Internet of Things Security and Privacy (IoT S&P)
- ♦ 2019, MILCOM 2019 (Track 3 Cyber Security and Trusted Computing)
- ♦ 2019, Workshop on ML for Security and Cryptography (co-located with IEEE PIMRC)
- ♦ 2019, ASIA Conference on Computer and Communications Security (ASIACCS)
- ♦ 2018, NIPS Workshop on Security in Machine Learning
- \$\delta\$ 2018, CCS Poster/Demonstration Session
- ♦ 2018, Privacy-Aware Computing Symposium (IEEE PAC)
- 2017, Internet of Things Security and Privacy Workshop (IoT S&P) (co-located with CCS)
- ♦ 2017, Cyber-Physical Systems Security Workshop (CPS-Sec) (co-located with CNS)
- ♦ 2016, Conference for Military Communications (MILCOM)

## SESSION CHAIR

2018: SecureComm Conference (Web Security Chair)

#### Journal and External Reviewer

- ♦ 2022, INFOCOM (External Reviewer on Fuzzing and Explainable AI)
- ♦ 2020, IEEE Transactions on Dependable and Secure Computing
- ⋄ 2019, IEEE Security & Privacy Magazine
- ♦ 2019, IEEE Transactions on Mobile Computing
- ♦ 2019, ACM Transactions on Internet of Things
- ♦ 2019, IEEE Transactions on Dependable and Secure Computing
- ♦ 2019, IEEE Transactions on Neural Networks and Learning Systems
- \$\delta\$ 2019, 2018, USENIX Security Symposium

# Z. Berkay Celik

- ♦ 2019, 2018, 2017, IEEE Symposium on Security and Privacy (S&P)
- ♦ 2018, ACM Conference on Computer and Communications Security (CCS)
- ♦ 2018, ACM Computing Surveys (CSUR)
- ♦ 2018, Conference on Decision and Game Theory for Security (GameSec)
- 2018, Neural Information Processing Systems (NIPS)
- 2017, IEEE Security and Privacy Magazine
- 2017, ACM Computing Surveys (CSUR)
- 2017, Neural Processing Letters
- 2017, IEEE Transactions on Information Forensics and Security
- ♦ 2016, Computers Open Access Journal
- 2016, Journal of Network and Computer Applications (JNCA)

## OTHER ACTIVITIES AND SERVICES

- ♦ 2020, Faculty Success Program, May 17 August 8 (online), supported by Purdue Faculty Affairs
- 2020, SaTC Town Hall, December 15 (Attendee)
- ♦ 2020, NSF Experimental Program to Stimulate Competitive Research (EPSCoR) (External Reviewer)
- ♦ 2020, Computing Research Association (CRA), Career Mentoring Workshop (Selected Attendee)
- ♦ 2020, NSF CISE CAREER Workshop, April 6-8 (Virtual, Selected Attendee)
- ♦ 2019, NSF SaTC panelist (virtual)

## Media Coverage

- Mid-air Collision Spoofing Attacks, Traffic Collision Avoidance Systems (TCAS) Security, The Register, June 2020
- Purdue teams up with DENSO to teach undergraduates about autonomous vehicles, Purdue Engineering,
   August 2020