

## CV of Michael Sirivianos

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### CONTACT INFORMATION

*Voice:* +357 97 653 425  
*E-mail:* michael.sirivianos@gmail.com  
*Home page:* <https://netsysci.cut.ac.cy/michael.sirivianos/>  
*Google Scholar profile:* <https://goo.gl/uixS4A>  
*Semantic Scholar profile:* <https://goo.gl/k5mA9V>

### SUMMARY

I am an Assistant Professor in Computer Engineering and Informatics.

I hold a PhD from Duke University since 2010. The main drive behind my work has been the development of networked systems that impact the way we use today's Internet. My goals involve the design and implementation of trustworthy and reliable distributed systems to address security and scalability issues in the Internet

My current research interests lie in the fields of trust-aware design of distributed systems, device-centric authentication, federated identity management, discrimination based on personal data, cyber-safety, suppression of false information in the social web, and transactional workload scalability.

I have published articles in the most influential conferences and journals of Networked Systems, including ACM SIGCOMM, USENIX NSDI, ACM IMC, AAAI ICWSM, IEEE INFOCOM, IEEE ICDCS, IEEE/ACM Transactions on Networking, and ACM Transactions on the Web.

I have extensive experience in EU-funded projects. Specifically, I am the technical manager of the ReCRED project (Horizon 2020 Innovation Action - 2014) and the coordinator of the ENCASE project (Horizon 2020 Marie Curie RISE - 2015).

I am also the co-director of the Network Systems and Science Research Laboratory and the president of CUT's Union of Academics since 2015.

### EDUCATION

**Sept 2008 - May 2010, Duke University**, North Carolina, USA

PhD in Computer Science

**Sept 2004 - Sept 2008, University of California, Irvine**, California, USA

PhD Candidate in Networked Systems

**Sept 2002 - July 2004, University of California, San Diego**, California, USA

MSc in Computer Science (Computer Communication Networks)

**Sept 1997 - June 2002, National Technical University of Athens**, Greece

Diploma (BSc), Electrical and Computer Engineering, July, 2002

### SELECTED PUBLICATIONS

**Understanding Web Archiving Services and Their (Mis)Use on Social Media**, S. Zannettou, J. Blackburn, E. De Cristofaro, M. Sirivianos, G. Stringhini. International AAAI Conference on the Web and Social Media (ICWSM), 2018

**Large Scale Crowdsourcing and Characterization of Twitter Abusive Behavior**, A. Founta, C. Djouvas, D. Chatzakou, I. Leontiadis, J. Blackburn, G. Stringhini, A. Vakali, M. Sirivianos and N. Kourtellis. International AAAI Conference on Web and Social Media (ICWSM), 2018

**The Good, the Bad and the Bait: Detecting and Characterizing Clickbait on YouTube**, S.

Zannettou, S. Chatzis, K. Papadamou and M. Sirivianos. 1st Deep Learning and Security Workshop (DLS), co-located with IEEE S&P, 2018

**What is Gab? A Bastion of Free Speech or an Alt-Right Echo Chamber?**, S. Zannettou, B. Bradlyn, E. De Cristofaro, M. Sirivianos, G. Stringhini, H. Kwak, J. Blackburn. Workshop on Computational Methods in CyberSafety, Online Harassment and Misinformation, co-located with AAAI ICWSM, 2018.

**From Risk Factors to Detection and Intervention: A Practical Proposal for Future Work on Cyberbullying**, A. Ioannou, J. Blackburn, G. Stringhini, E. De Cristofaro, N. Kourtellis, M. Sirivianos. Behaviour & Information Technology (TBIT), 2018

**The Web Centipede: Understanding How Web Communities Influence Each Other Through the Lens of Mainstream and Alternative News Sources**, S. Zannettou, T. Caulfield, E. De Cristofaro, N. Kourtellis, I. Leontiadis, M. Sirivianos, G. Stringhini, J. Blackburn. ACM Internet Measurement Conference (IMC), 2017

**Who is Fiddling with Prices? Building and Deploying a Watchdog Service for E-commerce**, C. Iordanou, C. Soriente, M. Sirivianos and N. Laoutaris. ACM SIGCOMM, 2017

**Exploiting Path Diversity in Datacenters using MPTCP-aware SDN**, S. Zannettou, M. Sirivianos, and F. Papadopoulos. IEEE Symposium on Computers and Communications (ISCC), 2016.

**Combating Friend Spam Using Social Rejections**, Q. Cao, M. Sirivianos, X. Yang and K. Munagala. IEEE International Conference in Distributed Computing Systems (ICDCS), 2015

**Quantifying the Cost of Customers for Usage-based Pricing**, L. Gyarmati, R. Stanojevic, M. Sirivianos and N. Laoutaris, Smart Data Pricing, John Wiley & Sons, 2014

**Leveraging Social Feedback to Verify Online Identity Claims**, M. Sirivianos, K. Kim, J.W Gan and Xiaowei Yang, ACM Transactions on the Web, 2014

**Sharing the Cost of Backbone Networks: Cui Bono?**, L. Gyarmati, R. Stanojevic, M. Sirivianos and N. Laoutaris, ACM Internet Measurement Conference (IMC), 2012

**Aiding the Detection of Fake Accounts in Large Scale Social Online Services**, Q. Cao, M. Sirivianos, Xiaowei Yang and T. Pregueiro, USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2012

**Inter-Datacenter Bulk Transfers with NetStitcher**, N. Laoutaris, M. Sirivianos, Xiaoyuan Yang and P. Rodriguez, ACM Conference on Applications Technologies Architectures and Protocols for Computer Communication (SIGCOMM), 2011

**SocialFilter: Introducing Social Trust to Collaborative Spam Mitigation**, M. Sirivianos, Xiaowei Yang and K. Kim, International Conference on Computer Communications (INFOCOM), 2011

**Robust and Efficient Incentives for Cooperative Content Distribution**, M. Sirivianos, X. Yang and S. Jarecki, IEEE/ACM Transactions on Networking, 2009

**Poking Facebook: A Characterization of OSN Applications**, M. Gjoka, M. Sirivianos, A. Markopoulou and X. Yang, SIGCOMM Workshop on Online Social Network (WOSN), 2008

**Dandelion: Cooperative Content Distribution with Robust Incentives**, M. Sirivianos, J. H. Park, X. Yang and S. Jarecki, USENIX Annual Technical Conference, 2007

**Free-riding in BitTorrent Networks with the Large View Exploit**, M. Sirivianos, J. H. Park, R. Chen and X. Yang, International Workshop on Peer-to-peer Systems (IPTPS), 2007

**Loud and Clear: Human Verifiable Authentication Based On Audio**, M. Goodrich, M. Sirivianos, J. Solis, G. Tsudik and E. Uzun, International Conference on Distributed Computing Systems (ICDCS), 2006

FUNDING

**ReCRED: From Real-world Identities to Privacy-Preserving and Attribute-based Credentials for Device-centric Access Control**, H2020 - Digital Security - Access Control; Total project funding: 4997K Euro. **Funding for CUT: 517K Euro**; Principal Investigator and Technical Manager of the consortium, 2015-2018

**ENCASE: ENhancing seCurity and privAcY in the Social wEb: a user-centered approach for the protection of minors**, H2020 Marie Curie RISE; Total project funding: 2160K Euro. **Funding for CUT: 589K Euro**; Coordinator of the consortium, 2016-2020

**NOTRE: Network for sOcial compuTing ResEarch**, H2020 Twinning; Total project funding: 1000K Euro. **Funding for EECEI/CUT: 100K Euro**, 2016-2019

PATENTS

**Method and System for Detecting Fake Accounts in Online Social Networks**, Q. Cao, M. Sirivianos and Xiaowei Yang, US Patent 20140317736, 2014

**A Multi-Hop and Multi-Path Store and Forward System, Method and Product for Bulk Transfers**, N. Laoutaris, M. Sirivianos, P. Rodriguez, and Xiaoyuan Yang, WO Patent WO/2012/034,607, 2012

BIBLIOMETRICS

**Google Scholar as of March 15<sup>st</sup>, 2018**

*Number of citations: 1617, h-index: 13*

**Semantic Scholar as of March 15<sup>st</sup>, 2018**

*Number of influential citations: 132*

WORK EXPERIENCE

**Department of Electrical Engineering, Computer Engineering and Informatics, Cyprus University of Technology**, Limassol, Cyprus

*Assistant Professor*

**January 2012 - present**

**Telefonica Research, Scientific Group**, Barcelona, Spain

*Associate Researcher*

**June 2010 - January 2012**

*Student Intern Researcher*

**May 2009 - Aug. 2009**

Worked with Dr. Pablo Rodriguez and Dr. Nikolaos Laoutaris on delay-tolerant bulk transfers

**NEC Network Laboratories**, Heidelberg, Germany

*Student Intern Researcher* **June 2006 - Dec. 2006**  
Worked with Dr. Dirk Westhoff on secure aggregator node election protocols in wireless sensor networks

**Bren School of Information and Computer Sciences U.C. Irvine**, California, USA

*Graduate Student Researcher* **Nov. 2005 - Aug. 2008**  
Worked with Prof. Xiaowei Yang and Prof. Stanislaw Jarecki on cooperative content distribution using robust cryptographic incentives

*Graduate Student Researcher* **June 2005 - Nov. 2005**  
Worked with Prof. Gene Tsudik and Prof. Michael Goodrich on audio-based human verifiable device authentication

**San Diego Supercomputer Center**, La Jolla, California, USA

*Programmer in Data and Knowledge Systems for the Geon Project.* **June 2004 - Sept. 2004**

**Systems and Networking Laboratory, U.C. San Diego**, La Jolla, California, USA

*Graduate Student Researcher* **Sept. 2003 - Aug. 2004**  
Worked toward MS Thesis with Prof. Keith Marzullo and Prof. Geoffrey Voelker on Epidemic Overlays for Multicast In Mobile Ad Hoc Networks

PROFESSIONAL  
SERVICE

**Program Committee Member:** INFOCOM 2016; INFOCOM 2015 INFOCOM 2014; WWW 2013; NetEcon 2012; Global Internet 2012, 2015

**Reviewer:**, ACM Transactions on the Web, 2014, 2015; IEEE/ACM Transactions on Networking, 2011, 2012, 2015; Performance Evaluation Journal, Elsevier, 2008; Computer Networks Journal, Elsevier, 2009, 2010, 2011; IEEE Transactions on Parallel and Distributed Systems, 2011; IEEE Transactions on Mobile Computing, 2011

**External Reviewer:** CoNEXT, 2010; USENIX ATC, 2012; ICDCS, 2011; INFOCOM 2011, 2012

HONORS AND  
AWARDS

**April 2008 UC Irvine**

1st place winner of the 2008 hiTEC product development competition at the Bren School of Computer Science, and 3rd place winner in the 2008 SYCR business plan competition at the Merage School of Business for adball.com; a web site for crowdsourcing advertising campaigns.

**June 2006 UCI ICS**

Outstanding TA award

**Sept. 2002 - June 2004 Cyprus Fulbright Commission**

Full graduate (MS) grant

**Sept. 1997 - June 2002 State Scholarship Foundation of Greece**

Scholarship for excellence in highly competitive university entrance examinations