

2023 7th Network Traffic Measurement and Analysis Conference (TMA 2023)

**Naples, Italy
26 – 29 June 2023**



**IEEE Catalog Number: CFP23K29-POD
ISBN: 979-8-3503-2567-6**

**Copyright © 2023, International Federation for Information Processing (IFIP)
All Rights Reserved**

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP23K29-POD
ISBN (Print-On-Demand):	979-8-3503-2567-6
ISBN (Online):	978-3-903176-58-4

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Not All DGAs Are Born the Same – Improving Lexicographic Based Detection of DGA Domains Through AI/ML	1
<i>L. Torrealba Aravena, P. Casas, J. Bustos-Jiménez, G. Capdehourat, M. Findrik</i>	
Deep Generative Replay for Multivariate Time-Series Monitoring with Variational Autoencoders	5
<i>Gastón García González, Pedro Casas, Alicia Fernández</i>	
Investigating Gaze Behavior in Phishing Email Identification.....	9
<i>Francesco Pietrantonio, Alessio Botta, Giorgio Ventre, Luigi Gallo, Stefania Zinno, Laura Mancuso, Roberta Presta</i>	
Unevenly Spaced Time Series from Network Traffic.....	13
<i>Josef Koumar, Tomas Cejka</i>	
Towards Detecting and Geolocating Web Scrapers with Round Trip Time Measurements	17
<i>Elisa Chiapponi, Marc Dacier, Olivier Thonnard</i>	
Detecting IP-Tracking Proof Interfaces by Looking for NATs.....	21
<i>Aurélien Buchet, Peter Snyder, Hamed Haddadi, Cristel Pelsser</i>	
Phishing in Style: Characterizing Phishing Websites in the Wild.....	25
<i>David Hasselquist, Elsa Kihlberg Gawell, Axel Karlström, Niklas Carlsson</i>	
An Initial Look into the Performance Evolution of 5G Non-Standalone Networks.....	29
<i>Giuseppe Caso, Mohammad Rajiullah, Konstantinos Kousias, Usman Ali, Luca De Nardis, Anna Brunstrom, Ozgu Alay, Marco Neri, Maria-Gabriella Di Benedetto</i>	
Packet Field Tree: A Hybrid Approach to Automated Protocol Reverse-Engineering	33
<i>Alex Rohl, Matthew Roughan, Martin White, Alexander Chambers</i>	
France Through the Lens of Mobile Traffic Data	37
<i>Orlando E. Martínez-Durive, Sachit Mishra, Cezary Ziemiicki, Stefania Rubrichi, Zbigniew Smoreda, Marco Fiore</i>	
Hazardous Echoes: The DNS Resolvers that Should Be Put on Mute	41
<i>Ramin Yazdani, Yevheniya Nosyk, Ralph Holz, Maciej Korczynski, Mattijs Jonker, Anna Sperotto</i>	
Encrypted Traffic Classification: The QUIC Case	51
<i>Jan Luxemburk, Karel Hynek, Tomáš Cejka</i>	
I Refuse if You Let Me: Studying User Behavior with Privacy Banners at Scale	61
<i>Nikhil Jha, Martino Trevisan, Marco Mellia, Rodrigo Irarrazaval, Daniel Fernandez</i>	
Live Long and Prosper: Analyzing Long-Lived MOAS Prefixes in BGP.....	70
<i>Khwaja Zubair Sediqi, Anja Feldmann, Oliver Gasser</i>	
W-Bad: Interception, Inspection, and Interference with Web Proxy Auto-Discovery (WPAD).....	80
<i>Casey Deccio</i>	
Bias in Internet Measurement Platforms	90
<i>Pavlos Sermpezis, Lars Prehn, Sofia Kostoglou, Marcel Flores, Athena Vakali, Emile Aben</i>	

A Worldwide Look into Mobile Access Networks Through the Eyes of AmiGos.....	100
<i>Matteo Varvello, Yasir Zaki</i>	
Your Code is 0000: An Analysis of the Disposable Phone Numbers Ecosystem	110
<i>José Miguel Moreno, Srdjan Matic, Narseo Vallina-Rodriguez, Juan Tapiador</i>	
Instant Messaging Meets Video Conferencing: Studying the Performance of IM Video Calls	120
<i>Laurenz Grote, Ike Kunze, Constantin Sander, Klaus Wehrle</i>	
An Analysis of War Impact on Ukrainian Critical Infrastructure Through Network Measurements.....	130
<i>Rishabh Singla, Shreyas Srinivasa, Narasimha Reddy, Jens Myrup Pedersen, Emmanouil Vasilomanolakis, Riccardo Bettati</i>	
Many Or Few Samples?: Comparing Transfer, Contrastive and Meta-Learning in Encrypted Traffic Classification	140
<i>Idio Guarino, Chao Wang, Alessandro Finamore, Antonio Pescapè, Dario Rossi</i>	
Longitudinal Analysis of Inter-City Network Delays	150
<i>Selim Ozcan, Ioana Livadariu, Georgios Smaragdakis, Carsten Griwodz</i>	
Target Acquired? Evaluating Target Generation Algorithms for IPv6.....	159
<i>Lion Steger, Liming Kuang, Johannes Zirngibl, Georg Carle, Oliver Gasser</i>	
<i>Errare Humanum Est: What Do RFC Errata Say About Internet Standards?.....</i>	169
<i>Stephen McQuistin, Mladen Karan, Prashant Khare, Colin Perkins, Matthew Purver, Patrick Healey, Ignacio Castro, Gareth Tyson</i>	
dMAPAR-HMM: Reforming Traffic Model for Improving Performance Bound with Stochastic Network Calculus	178
<i>Qingqing Yang, Xi Peng, Huiwen Yang, Gong Zhang, Bo Bai</i>	

Author Index