2019 Principles, Systems and **Applications of IP Telecommunications** (**IPTComm 2019**)

Chicago, Illinois, USA 14-16 October 2019



IEEE Catalog Number: CFP19G97-POD ISBN:

978-1-7281-4202-9

Copyright \odot 2019 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. 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:
 CFP19G97-POD

 ISBN (Print-On-Demand):
 978-1-7281-4202-9

 ISBN (Online):
 978-1-7281-4201-2

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



TABLE OF CONTENTS

A CYBER TOPOLOGY MODEL FOR THE TEXAS 2000 SYNTHETIC ELECTRIC POWER	
GRID	1
Patrick Wlazlo ; Kevin Price ; Christian Veloz ; Abhijeet Sahu ; Hao Huang ; Ana Goulart ; Katherine Davis ;	
Saman Zounouz	
SIPCHAIN: SIP DEFENSE CLUSTER WITH BLOCKCHAIN	9
Aldo Febro ; Hannan Xiao ; Joseph Spring	
FUZZING JANUS FOR FUN AND PROFIT	17
A. Amirante ; T. Castaldi ; L. Miniero ; S. P. Romano ; P. Saviano ; A. Toppi	
DYNAMIC 5G NETWORK SLICING FOR FIRST RESPONDERS	24
Kenneth Carlberg ; Eric W. Burger ; Roger Piqueras Jover	
Author Index	