T. Charles Clancy, PhD, FIEEE

EXPERIENCE

The MITRE Corporation, McLean, VA Senior Vice President & General Manager, MITRE Labs; Chief Futurist Vice President for Intelligence Programs	2020 – present 2019 –2020
Virginia Tech, Arlington, VA Interim Executive Director, Commonwealth Cyber Initiative; Bradley Distinguished Professo Executive Director, Hume Center; Professor of Electrical and Computer Engineering Director, Hume Center; Associate Professor of Electrical and Computer Engineering Associate Director, Hume Center; Research Fellow	r 2018 – 2019 2017 – 2019 2011 – 2017 2010 – 2011
National Security Agency, Fort Meade, MD Engineering Leader GS-14, Laboratory for Telecommunications Sciences Senior Researcher GS-13, Laboratory for Telecommunications Sciences Researcher GS-12, Laboratory for Telecommunications Sciences Summer Hire & Graduate Researcher	2008 - 2010 2006 - 2008 2005 - 2006 2000 - 2005
EDUCATION	
University of Maryland, College Park, MD PhD, Computer Science	May 2006
University of Illinois, Urbana-Champaign, IL MS, Electrical Engineering	Dec 2002
Rose-Hulman Institute of Technology, Terre Haute, IN BS, Computer Engineering, summa cum laude	May 2001

CURRENT PROFESSIONAL ACTIVITIES

Professional Organizations

- Fellow, Institute for Electrical and Electronics Engineers (IEEE)
- Board Executive Committee, Armed Forces Communications and Electronics Association (AFCEA)
- Intelligence Committee, Armed Forces Communications and Electronics Association (AFCEA)
- Task Force on AI and National Security, Center for New American Security (CNAS)
- Conference Board & Past Conference Chair, IEEE Military Communications Conference (MILCOM)
- Conference Board & Past Conference Chair, IEEE Communications and Network Security (CNS)
- Next G Alliance Steering Group, Alliance for Telecommunications Industry Solutions (ATIS)

DOD University Affiliated Research Center Advisory Boards

- Systems Engineering Research Center
- Research Institute for Tactical Autonomy

University Advisory Boards

- National Security Institute, Virginia Tech
- DoD Cybersecurity Center of Excellence, Norfolk State University
- DoD AI and Machine Learning Center of Excellence, Howard University
- Computer Science Department, North Carolina A&T

ENTREPRENEURSHIP

Co-Founder, Chairman, and Interim CEO, SecureG, 2019 Founding Advisor, DeepSig, 2017 Co-Founder and Interim CTO, HawkEye 360, 2015 Co-Founder and Advisor, Federated Wireless, 2012 Co-Founder and Advisor, Optio Labs, 2012

CONGRESSIONAL TESTIMONY

Senate Committee on the Judiciary 5G: National Security Concerns, IP Issues, and the Impact on Competition and Innovation	May 2019
House Committee on Science, Space, and Technology; Subcommittee on Oversight Bolstering Data Privacy and Mobile Security: An Assessment of IMSI Catcher Threats	June 2018
House Energy and Commerce Committee; Subcommittee on Communications and Technology Telecommunications, Global Competitiveness, and National Security Promoting Security in Wireless Technology	May 2018 June 2017

PATENTS

11,418,955	System and Methods for Transit Path Security Assured Network Slices	Mar 2022
10,474,976	Hierarchical Satellite Task Scheduling System	Nov 2019
10,396,919	Processing of Communications Signals using Machine Learning	Aug 2019
9,787,681	Systems and methods for Enforcing Access Control Policies on Privileged Accesses on Mobile Devices	Oct 2017
9,773,107	Systems and Methods for Enforcing Security in Mobile Computing	Sep 2017
9,712,530	Systems and Methods for Enforcing Security in Mobile Computing	Jul 2017
9,609,020	Systems and Methods to Enforce Security Policies on the Loading, Linking, and	Mar 2017
	Execution of Native Code by Mobile Applications Running inside of Virtual Machines	
9,578,445	Systems and Methods to Synchronize Data to a Mobile Device	Feb 2017
9,544,778	Method of Network Sharing between Public Safety and Commercial Users	Jan 2017
9,516,508	System and Method for Heterogeneous Spectrum Sharing Between Commercial	Dec 2016
	Cellular Operators and Legacy Incumbent Users in Wireless Networks	
9,391,749	System and Method of Distributed Data Management in Wireless Networks	Jul 2016
9,363,670	Systems and Methods for Restricting Access to Network Resources via In-Location Access Point Protocol	Jun 2016
7,756,510	Authentication Method for Wireless Distributed System	Jul 2010

STANDARDS

Wireless Innov	ation Forum (WInnF)	
TS-0065	CBRS Communications Security Technical Specification, V1.0.0	Apr 2017
TS-0071	CBRS Operational Security Technical Specification, V1.0.0	Jun 2016
Internet Engin	eering Task Force (IETF)	
RFC 6677	Channel Binding Support for EAP Methods	Jul 2012
RFC 5433	EAP Generalized PSK (GPSK)	Feb 2009
RFC 5418	CAPWAP Threat Analysis for 802.11 Deployments	Dec 2008
RFC 5415	CAPWAP Protocol Specification	Dec 2008
RFC 5169	Handover Key Management and Re-Authentication Problem Statement	Mar 2008
RFC 4746	EAP Password Authenticated Exchange	Nov 2006
Monographs Internet of	Things Performance and Security, McGraw Hill	2020
-	Implementation of Practical Schedulers for M2M Uplink Networks, Springer	2018
-	Allocation with Carrier Aggregation in Cellular Networks, Springer	2018
	Sharing between Radars and Communication Systems, Springer	2017
Cellular Co	mmunications Systems in Congested Environments, Springer	2017
MIMO Rad	lar Waveform Design for Spectrum Sharing with Cellular Systems, Springer	2016
•	rning for Wireless Comms", in <i>Development and Analysis of Deep Learning Architectur</i>	
Springer "Application	on-Aware Spectrum Sharing", in Handbook of Cognitive Radio, Springer	2019 2019

ACADEMIC PUBLICATIONS

- 53 papers published in peer-reviewed academic journals
- 134 papers published in peer-reviewed conference proceedings
- 16 invited papers published in conference proceedings