Internet Society
Portugal Chapter

ISOC Portugal ANRW 2020
"Applied Network Research Workshop & Prizes" 2020

Prize delivery and Workshop on Internet Security and Trust

November 11th 2020 — Open to the general public
Registration — https://forms.gle/Nsd7W4ViGG77ZwBx8
Physical Room — If the Covid-19 conditions allow, it will be at ala lateral do Salão Nobre, Pavilhão Central, Instituto Superior Técnico, Av. Rovisco Pais, n.º 1, 1049-001, Lisboa.
https://www.ulisboa.pt/unidade-organica/instituto-superior-tecnico
Zoom session — attendees will receive the session link before the event takes place.
Workshop language — English.

Program
(Last minute modifications are possible)

PART I -   Awarded Publications, Presentations and Prizes Delivery

14:00 – 14:30   Attendees reception

14:30 – 14:40   Opening

14:40 – 15:10   **Paper Award: Internet Research Impact Acknowledge Mention** - *On the Unobservability of Multimedia-Based Covert Channels for Internet Censorship Circumvention*, Diogo Barradas, Nuno Santos, Luis Rodrigues, INESC-ID, IST, Univ. Lisboa

15:10 – 15:40   **Paper Award: IETF and Standards Acknowledge Mention** - *EAP-SH: An EAP Authentication Protocol to Integrate Captive Portals with 802.11i*, Nuno Marques, André Zúquete, João Paulo Barroca, DETI/IT - Univ. Aveiro

15:40 – 15:45   Prize delivery

15:45 – 16:00   Break

PART II -   Workshop - Improving Security and Trust in the Internet and Adoption of Standards

16:00 – 16:30   Adrian Perrig (ETH Zurich) – Experiencing a new Internet Architecture

16:30 – 17:00   José Legatheaux Martins (FCT/UNL and ISOC PT) – Open Security Standards and their Adoption Mapping

17:00 – 17:30   Dan York (ISOC) - Making Web Servers More Secure and Faster Using Open Standards

17:30   Workshop closing and (virtual) break

Speakers

Adrian Perrig is a Professor at the Department of Computer Science at ETH Zürich, Switzerland, where he leads the network security group. He is also a Distinguished Fellow at CyLab, and an Adjunct Professor of Electrical and Computer Engineering at Carnegie Mellon University. From 2002 to 2012, he was a Professor of Electrical and Computer Engineering, Engineering and Public Policy, and Computer Science (courtesy) at Carnegie Mellon University, becoming Professor in 2009. From 2007 to 2012, he served as the technical director for Carnegie Mellon's Cybersecurity Laboratory (CyLab). He earned his MS and PhD degrees in Computer Science from Carnegie Mellon University, and spent three ye during his PhD at the University of California at Berkeley. He received his BSc degr in Computer Engineering from EPFL.Adrian's research revolves around building secure systems -- in particular his group is working on the SCION secure Internet architecture.

Dan York is the Project Lead for the Internet Society's Open Standards Everywhere (OSE) Project, working to increase the security and availability of web servers through the use of TLS, DNSSEC, HTTP/2, and IPv6. Dan is also the Internet Society's Director of Web Strategy, managing the team publishing content across the organization's 25+ web sites. Since the mid-1980's Dan has been working with online communication technologies and helping businesses and organizations understand how to use and participate in those new media. Dan frequently presents at conferences, has authored multiple books, participates in several podcasts, and writes extensively online. He lives in Vermont, USA, where he enjoys many outdoor activities.

J**osé Legatheaux Martins** is a Professor at the Department of Informatics of the New University of Lisbon, in the Computer Systems group, and president of the Portuguese Chapter of the Internet Society. From 2007 to 2011 he served as department head and vice-dean for scientific affairs. He earned his Phd from the Université of Rennes II and worked as a researcher at INRIA Rocquencourt, Paris in France. His research is in distributed computer systems and networks. He is the author of several papers and a book on Computer Networks Fundamentals. From long ago he has a significant activity in computer and network technology related associations (EUUG and ISOC). He led the project that established the Portuguese branch of the Internet in 1990's and managed the PT ccTLD from 1990 to 1994, founded one of the first ISPs in Portugal and acted as member of the board and technical consultant of two networking companies.

Authors of Awarded Papers
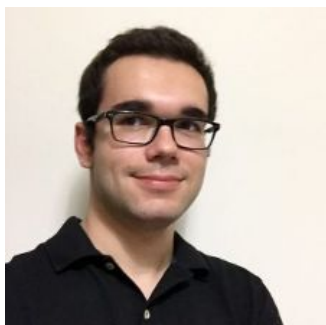
Diogo Barradas is a PhD student of Information Systems and Computer Engineering at Instituto Superior Tecnico, Universidade de Lisboa. He received his BSc. (2014) and MSc. (2016) from the same institution. His research interests include network security and privacy, with particular emphasis on statistical traffic analysis and Internet censorship circumvention. He conducts his research at the Distributed Systems Group at INESC-ID Lisboa.

Nuno Santos is an Assistant Professor at Instituto Superior Técnico, University of Lisbon, and a research member of the Distributed System Group at INESC-ID Lisbon. He finished his PhD in 2013 at Max-Planck Institute for Software Systems / Saarland University. His research interests span the area of systems security with specific focus on trusted computing, censorship and anonymity, data privacy, and software vulnerability analysis. His work has been published in flagship conferences such as IEEE Security & Privacy, ACM CCS, Usenix Security, and ASPLOS.

Luís Rodrigues (PhD 1996) is a Professor at Instituto Superior Técnico, Universidade. He has supervised 3 post-docs, 15 PhD students and 52 MSc students. He served as program committee chair, local organizer, and general chair of different conferences. He has served as coordinator of several European research projects and international networks of excellence. He has served as director of the INESC-ID research laboratory and served twice as department chair (at IST and at FCUL). His main area of interest is dependable distributed systems with emphasis on byzantine fault-tolerance, concurrency, replicated data management, cloud computing, dynamic networks, information dissemination, and autonomic computing. In these areas, he is an author of more than 200 papers and co-author of 2 textbooks. His google scholar record registers a h-index of 44 and more than 7000 citations to his papers.
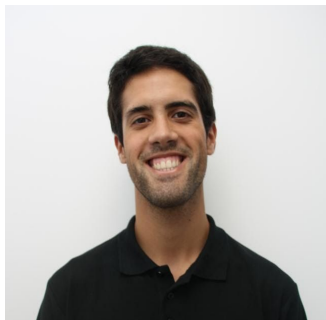
Nuno Marques is a Java Developer currently working at Talkdesk. He obtained his Msc. degree in 2017 at Universidade de Aveiro. He has worked at Multicert, a portuguese CA and security company, where he developed knowledge in applied cryptography. Also whilst working at Multicert, he has participated in an european project, OLYMPUS, focused on privacy and obliviousness of identity management services.

João Paulo Barraca João Paulo Barraca, PhD in Informatics Engineering acts as Assistant Professor at the University of Aveiro since 2008. At the same time, he conducts research in the Telecommunications Institute, having led the TN-AV group (2015, 2016). He has more than 100 peer reviewed publications and technical reports. His current research interests include security and protocols for B5G and Cloud environments, with focus in solutions for Software Defined Networks in Future Networking environments. He participated in more than 20 projects (8 EU funded), either developing novel concepts, or applying these concepts in innovative products and solutions, involving the design of IoT platforms for Telecom Operators and Water Monitoring Networks. He coordinates the NGI Trust CASSIOPEIA, coordinates the local participation in EU LIFE-PAYT, participates in the Square Kilometer Array, first in TM-LINFRA and then in the System Team. In the past he lead the FCT/CAPES DEVNF project in Portugal that addressed novel 5G orchestration, participated in EU AENEAS (European Science Cloud for Astronomy), lead the local team in the P2020 @CRUISE project, the security team at P2020-SOCIAL, among others. He also participated in the organization of multiple events, as a member of the TPC for several scientific events, and both reviewer and editor of scientific journals.

André Zúquete is an Assistant Professor at University of Aveiro, a researcher of IEETA and a collaborator of Instituto de Telecomunicações. In IEETA he is currently the principal researcher of the Information Systems and Processing group. His R&D activities are centred on the area of security in distributed systems, with a special focus on the design of architectures for security and mobility with security requirements (e-Voting, e-Health, e-Government, vehicular networks, etc.). He is member of several program committees of several conferences in the area of security and mobility and a frequent reviewer of Springer's Wireless Networks journal. He participated in several national and international projects and did some consulting on the security for Portuguese companies and state departments. He has dozens of articles published in international forums related with security and mobility and he is the author of a technical book on network security (in Portuguese). He is the Portuguese representative on the IFIP TC11 (Security and Privacy Protection in Information Processing Systems).