

CTSS 2022  
1st International Workshop on Communication Technology and Security in  
Smart Grid (CTSS)

to be held in conjunction with The 14th International Conference on Communications  
(COMM 2022 - <https://comms.ro/>)

Bucharest, România  
June 16 - June 18, 2022

## Scope

The rapid evolution of Smart Grid has created a fertile ground for cybersecurity attacks inherited from the classic Information and Communication Technologies (ICT), emerging privacy and communication issues as well as new vulnerabilities. However, the pure migration of ICT security solutions to the Smart Grid is not adequate. The problem is categorized as vital considering that a potential attack to the Smart Grid has already led to cascading failures, ranging from destruction of other interconnected critical infrastructures to loss of human lives.

This workshop aims to strengthen security through research and relevant activities in the modelling and design of secure, and trustworthy architectures for next generation information systems and solutions dedicated for the Smart Grid. We especially encourage security solutions that employ innovative communication techniques to tackle the security issues of Smart Grid including but not limited to cyberattacks.

The 2022 CTSS will bring together researchers, engineers, and practitioners to present and discuss latest advances and innovations in theories, infrastructure, schemes, and applications for secure computation, security technologies, human computer interaction, as well as to identify emerging research topics and define future trends in smart grid security and communication technology.

We invite authors to submit previously unpublished work describing research or experience in all areas of usable telecommunications and security. We accept a variety of research methods, including both qualitative and quantitative approaches. Papers will be judged on their scientific quality, and contribution to the field. Topics include, but are not limited to:

- Masking methods
- Blockchain
- Access Control Mechanisms
- Practical attacks on Smart Metering
- Advanced Metering Infrastructure
- Zero Trust in Smart Grid
- Interoperability in Smart Grid
- Signal Processing
- Secure Computing
- Physical Security
- Communication Theory
- Computational Intelligence
- 5G Networks in Smart Grid
- Security in 5G Networks

- Vehicular Electronic Systems and Smart Grids
- Electronic Systems Design for Smart Grids
- Smart Grid for home health care
- Blockchain/Smart contracts for auditability and accountability
- Novel attacks and protection solutions in communications and Smart Grid

## Important Dates

Submission Deadline	<b>March 28, 2022</b>
Author Notification	<b>April 29, 2022</b>
Camera-ready papers due	<b>May 14, 2022</b>
CTSS Workshop @ COMM Conference	<b>June 16 - June 18, 2022</b>

## Paper submission

Prospective authors are invited to submit original, previously unpublished technical papers for presentation in the conference sections and for publication in the COMM2022 Conference Proceedings. Since 2010, the papers presented at the conference have been published in IEEE Xplore and ISI database. IEEE reserves the right to exclude a paper from distribution after the conference, including IEEE Xplore® Digital Library, if the paper is not presented by the author at the conference. To submit your contribution, please adhere strictly to the conference guidelines available here <https://www.comms.ro/paper-submission.html>.

## Organizing committee

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## Project support

The workshop is organized from the following international projects:

Scalable, trustEd, and interoperAble pLatform for sEecureD smart GRID (SealedGRID), H2020 project no. 777996, <https://www.sgrid.eu/>

Testing and Evaluating Sophisticated information and communication Technologies for enaBling scalable smart griD Deployment (TESTBED2), H2020 project no. 872172, <https://www.testbed2.org/>

A Massive MIMO Enabled IoT Platform with Networking Slicing for Beyond 5G IoV/V2X and Maritime Services (SOLID-B5G), NO Grants 2019 - Collaborative Research Projects project no. 42/2021, <https://solid-b5g.upb.ro/>

Vertical Innovations in Transport And Logistics over 5G experimentation facilities (VITAL-5G),  
H2020 project no. 101016567, <https://www.vital5g.eu/>  
5G Enabled Road Safety Services (5G-SAFE+), CELTIC NEXT project C2018/2-3,  
<https://5gsafeplus.fmi.fi/>