

.br, IPv6, Wi-Fi 6, 5G - De onde vêm os padrões?

Lisandro Zambenedetti Granville

granville@inf.ufrgs.br

Instituto de Informática

Universidade Federal do Rio Grande do Sul





The professional home for the engineering and technology community worldwide

Search all IEEE websites



About

Membership

Communities

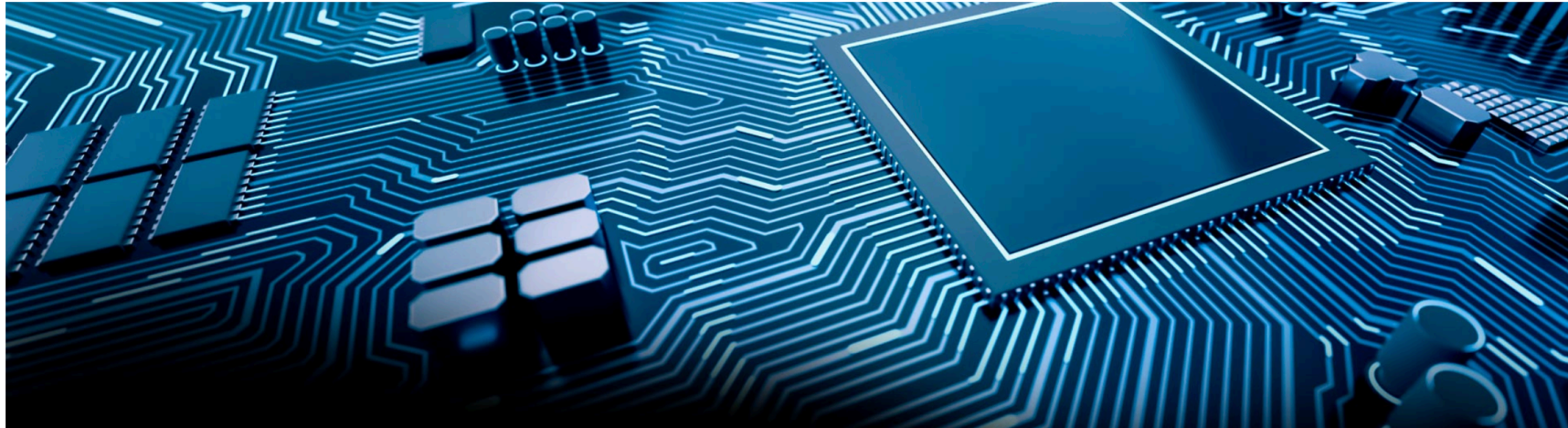
Conferences

Standards

Publications

Education

JOIN IEEE



Advancing Technology for Humanity

IEEE and its members inspire a global community through highly-cited publications, conferences, technology standards, and professional and educational activities.

LEARN MORE



> IEEE-USA (Regions 1-6)

Region
1

Region 1
(Northeastern
US)

Region
2

Region 2
(Eastern US)

Region
3

Region 3
(Southern US)

Region
4

Region 4
(Central US)

Region
5

Region 5
(Southwestern
US)

Region
6

Region 6
(Western US)

Region
7

Region 7
(Canada)

Region
8

Region 8
(Africa, Europe,
Middle East)

Region
9

Region 9
(Latin
America)

Region
10

Region 10
(Asia and
Pacific)



Learn About IEEE Society Memberships: Join Multiple IEEE Societies & Save 5%

IEEE Society members stay technically current, network with colleagues locally and abroad, and collaborate on research and projects with leading experts -- all while taking advantage of specialized opportunities. Discover which Society, or Societies, best match your technical interests by joining today to take advantage of membership benefits ranging from access to cutting-edge technical periodicals and conference discounts to educational resources and worldwide networking opportunities. In addition, IEEE members enjoy deep discounts on Society memberships.

New for 2023: Join two or more participating IEEE Societies and receive a 5% discount. [Learn more.](#)

[Aerospace and Electronic Systems Society](#)

[Antennas and Propagation Society](#)

[Broadcast Technology Society](#)

[Circuits and Systems Society](#)

[Communications Society](#)

[Computational Intelligence Society](#)

[Computer Society](#)

[Consumer Technology Society](#)

[Control Systems Society](#)

[Dielectrics and Electrical Insulation Society](#)

[Education Society](#)

[Electromagnetic Compatibility Society](#)

[Electron Devices Society](#)

[Electronics Packaging Society](#)

[Engineering in Medicine and Biology Society](#)

[Geoscience and Remote Sensing Society](#)

[Industrial Electronics Society](#)

[Industry Applications Society](#)

[Information Theory Society](#)

[Instrumentation and Measurement Society](#)

[Intelligent Transportation Systems Society](#)

[Magnetics Society](#)

[Microwave Theory and Technology Society](#)

[Nuclear and Plasma Sciences Society](#)

[Oceanic Engineering Society](#)

[Photonics Society](#)

[Power Electronics Society](#)

[Power & Energy Society](#)

[Product Safety Engineering Society](#)

[Professional Communication Society](#)

[Reliability Society](#)

[Robotics and Automation Society](#)

[Signal Processing Society](#)

[Society on Social Implications of Technology](#)

[Solid-State Circuits Society](#)

[Systems, Man, and Cybernetics Society](#)

[Technology and Engineering Management Society](#)

[Ultrasonics, Ferroelectrics, and Frequency Control Society](#)

[Vehicular Technology Society](#)



IEEE The world's large...

IEEE SA - The IEEE Sta...

cnom.committees.comsoc.org



IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites



Network Operations & Management Technical Committee

ENHANCED BY Google



Welcome

How to Join ▾

Officers ▾

Meetings

Conferences ▾

Journals

Awards ▾

SIGs ▾

Resources ▾

Welcome

Welcome

CNOM is the acronym for the **IEEE Communications Society** Technical Committee on Network Operation and Management. Missing in the name, but nevertheless very clear to all of us, is the interest in the Service Management as well.

Here you can find information on how to become a member of CNOM. The very fact you read this page shows that you have some interest in the Network Management area so please join in right now: it is quick and free!

You will also find information on activities of CNOM, for example: when the next meetings will take place, reports of past meetings, news on Conferences and news on publications related to our interest area.

Please be our guest, and go on clicking!



(Click the link to see the bio.)

Noura Limam, Chair

Marinos Charalambides, Vice Chair



IEEE The world's large...

IEEE SA - The IEEE Sta...

IEEE Communications...

noms2023.ieee-noms.org



IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum Online | More IEEE Sites



IEEE/IFIP Network Operations and Management Symposium

8-12 May 2023 // Miami, FL // USA



HOME

ABOUT

COMMITTEES

AUTHORS

PROGRAM

REGISTRATION

HOTEL / TRAVEL

PATRONS / EXHIBITORS

Search



NEWS AND ANNOUNCEMENTS

Author Registration Deadline is extended to March 30, 2023

Some ConsSoc Travel Grants are available for non-student ComSoc members.

Application due before March 26, 2023. See [COMSOC TRAVEL GRANTS](#) page.

Workshop Papers Submission Deadline extended to February 7 for ANMS, IPSN, ITAVT, FlexNgia, MF15.0 & TNT

Goto the [CALL FOR WORKSHOP PAPERS](#) page

IMPORTANT DATES

Author Registration Deadline:

March 30, 2023

ComsSoc Travel Grant Application

Deadline:

March 26, 2023



Standardization Programs Development Board

ENHANCED BY Google



Home

Board Roster

Focus on Innovation

Technical Areas

Mission

Liaisons

IEEE CSPDB Project Proposal Form

Let Us Know How We Can Help You

Mailing List

Welcome to CSPDB

The charter of IEEE Communications Society Standardization Program Development Board (CSPDB) includes:

- Identifying novel high-risk/high-payoff ideas
- Nurturing selected ideas towards pre-standardization maturity
- Allocating resources for Vision and Research Projects to advance such ideas
- Understanding and disseminating the essence of innovation
- Establishing journals and conferences related to innovation


To participate, join the [CSPDB email list](#). [A wiki is also open for user input](#).

See ["LET US KNOW HOW WE CAN HELP YOU"](#) for more detail.

Submit a [Project Request Form](#) for a new idea.

Example of Current Activities

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites eTools

IEEE SA STANDARDS ASSOCIATION 

Standards | Products & Programs | Focuses | Get Involved | Resources | **MAC ADDRESS**

RAISING THE WORLD'S STANDARDS

Discover how the IEEE SA is working to meet your evolving needs.

[>](#)

2,100+
STANDARDS & PROJECTS

175+
COUNTRIES

34,000+
GLOBAL PARTICIPANTS

[Feedback](#) [SUBSCRIBE](#)

IEEE 802 LMSC



The IEEE 802 LAN/MAN Standards Committee develops and maintains networking standards and recommended practices for local, metropolitan, and other area networks, using an open and accredited process, and advocates them on a global basis. The most widely used standards are for Ethernet, Bridging and Virtual Bridged LANs Wireless LAN, Wireless PAN, Wireless MAN, Wireless Coexistence, Media Independent Handover Services, and Wireless RAN. An individual Working Group provides the focus for each area.

Get 802 standards

- [Get 802 Standards](#)
- (IEEE-SA / IEEE 802 LMSC [2016 "Get IEEE802" Program Guideline](#))

IEEE 802 Working Groups and Study Groups

- [802.1](#) Higher Layer LAN Protocols Working Group
- [802.3](#) Ethernet Working Group
- [802.11](#) Wireless LAN Working Group
- [802.15](#) Wireless Specialty Network (WSN) Working Group
- [802.18](#) Radio Regulatory TAG
- [802.19](#) Wireless Coexistence Working Group
- [802.24](#) Vertical Applications TAG
- [List](#) of Hibernating and Disbanded Working Groups and Study Groups

IEEE 802 Session Information

- [IEEE 802 Plenary/Interim meeting information](#)
- [IEEE 802 LMSC Meeting Agendas, Minutes and Reports](#)
- [PARs under consideration](#)
- [Tutorial information for the plenary meetings](#)
- [IEEE 802 Executive Committee Conference call schedule and minutes](#)
- [IEEE 802 and subgroup Calendar](#)

IEEE 802 General Information

- [IEEE-SA Policies](#)
- [Approved/In process IEEE 802 Activities \(Standards/Projects/Pre-par\)](#)
- [IEEE 802 Orientation](#)
- [IEEE 802 Policies & Procedures and other documents related to standards development](#)
- [List of active IEEE 802 Standards](#)