



Call for Papers

Special issue on

Epidemic Interference in Wireless Communications

Journal of Communications Software and Systems (JCOMSS)

Short description of the state of art of the topic:

This issue relates to a statistical approach for modeling the behavior of digital modulation systems subjected to non-stationary interference. This particular kind of non-stationary interference is originated by a flooding of the system by many users attempting to access the system, all arriving over a short time interval. This type of interference has a deleterious effect on the performance of a communication system and is referred to as epidemic interference. A non-stationary interference in the form of random values of signal power levels over time is characteristic for epidemic interference and is amenable to be modeled by a non-stationary stochastic process.

Guest Editorial Team:

Chair: Marcelo S. Alencar, UFRN, sampaio.alencar@gmail.com

Members:

Luiz G. Q. Silveira, UFRN, luizsilveirajunior@gmail.com

Luiz F. Q. Silveira, UFRN, lfelipeqs@gmail.com

Waslon T. A. Lopes, UFPB, waslon@cear.ufpb.br

Raissa B. Rocha, UFS, issinharocha@gmail.com

Topics include but are not limited to the following:

- Probability of Error for Epidemic Interference
- Channel Capacity for Non-Stationary Channels
- Transmission Rate During the Epidemic State
- Communications Traffic in Non-Stationary Regime
- Non-Stationary Interference in Cellular Systems
- Communication Networks Subject to Epidemic Interference
- Effects of Non-Gaussian Interference in Communication Systems
- Effect of Human Behaviour on Traffic Congestion

IMPORTANT DATES	
Submissions due	December 1, 2023
Notification of acceptance by	March 31, 2024
Online publication by	Immediately after acceptance
Issue published	June 2024

Note: An earlier notification of intent to submit a proposal would be appreciated.

Authors wishing to submit papers for this SI should prepare the manuscript according to the Author Guidelines (<https://jcoms.fesb.unist.hr/author-guidelines/>) and submit it by pressing SUBMIT AN ARTICLE. Submissions must be original and should not have been previously published or been under consideration for publication while being evaluated for this Special Issue. Only papers authored without AE's name will be required to pay an article processing charge of 250 EUR after the article has been accepted for publication.

Journal of Communications Software and Systems (JCOMSS) is the peer reviewed **open access journal** offering to authors the quick promotion of the published articles, since the whole research community can freely access the valuable scientific information. The accepted papers are electronically published at the journal website shortly after acceptance. JCOMSS is an all electronic processing journal offering typically **one-month window** for the final decision about publishing for well prepared regular papers that are accepted after one round of review.

JCOMSS is indexed in Emerging Sources Citation Index - Web of Science, Scopus, EBSCO, Inspec, Google Scholar, CrossRef, and DOAJ.

More information about the JCOMSS including details on the submission process and authors kit is available on the website:

<https://jcoms.fesb.unist.hr/>