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Online Seminar

Computer Sciences, Networks and Security



Ronaldo Alves Ferreira

JOIN US :

FRIDAY 11 APRIL 2025 AT 14:30 PM

THE LINK FOR THE TALK IS [HTTPS://MEET.GOOGLE.COM/SAX-ICSQ-FNI](https://meet.google.com/SAX-ICSQ-FNI)

Title : Research on Computer Networks and Security at Facom/UFMS

Presenter : Ronaldo Alves Ferreira

Professor of Computer Science

Federal University of Mato Grosso do Sul (UFMS)

College of Computing (FACOM)

Abstract:

In this talk, he will present ongoing research projects in Computer Networks and Security conducted at Facom/UFMS. He will begin with a broad overview of computer networking and highlight how a variety of disciplines intersect with and contribute to networking research. Then, he will focus on three specific research problems that he have been exploring with his students. The first involves fast packet processing aimed at optimizing key performance metrics, such as minimizing tail latency. The second addresses the challenges of interdomain routing, and how we can better understand the complexity of the Internet's routing infrastructure using publicly available data. The third explores the risks and limitations of applying Machine Learning in high-stakes domains like network security, where understanding how a model makes decisions is paramount.

Biographical Sketch of Ronaldo Alves Ferreira



Ronaldo A. Ferreira is a Full Professor of Computer Science in the College of Computing at UFMS. He received his B.Sc. from UFMS in 1992, his M.S. from the University of Campinas in 1998, and his Ph.D. from Purdue University in 2006, all in Computer Science. Ronaldo was a Visiting Research Scholar and a Visiting Associate Professor at Princeton University from 2014 to 2016. He served as the chair of the Special Interest Group on Computer Networks and Distributed Systems of the Brazilian Computing Society (SBC) from 2011 to 2013. Ronaldo was a member of the board of administration of the Brazilian National Research and Educational Network (RNP) from 2011 to 2013. He has been the Director of Cooperation with Scientific Societies of SBC since 2023. His research interests are in computer networks and distributed systems.