

Large Language Models and Agentic AI in Telecommunications

SPEAKER

Dr. Faris B. Mismar

WHEN

Thursday, August 20, 2026

6:30 PM Jordan time (UTC+3)



ABOUT THE SEMINAR

This seminar explores the shift from large language model (LLM) assistants to agentic AI in telecommunications. It introduces the fundamentals of LLMs and examines practical applications in service provisioning and network planning and optimization. The talk also addresses LLMs, RAGs, and Agentic AI, and the various challenges LLMs bring to telecommunications.

KEY TOPICS

- LLMs, transformer self-attention, training data, GPU compute, and efficient inferencing
- From LLM assistants to agentic AI
- Telecom use cases: service provisioning and network planning & optimization

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Online seminar • 6:30 PM Jordan time (UTC+3)

<https://meet.google.com/sfw-hxrq-fdi>



About the Speaker

Faris B. Mismar received the B.S. degree with high distinction in Computer Engineering from the University of Jordan in 2004, the M.S. degree in Electrical Engineering and the MBA degree—both with highest distinction—from The University of Texas at Dallas in 2011 and 2014, respectively, and the Ph.D. degree in Electrical and Computer Engineering from The University of Texas at Austin in 2019.

From 2004 to 2008, Dr. Mismar was a Telecommunications Engineer with Motorola. From 2009 to 2018, he held senior technical and leadership roles at Ericsson, including Senior Solutions Manager for Radio Access Networks. From 2019 to 2020, he served as Director of Radio Performance Assurance and Engineering at Samsung Electronics America. He joined Nokia in 2020 as Head of Data Science and Analytics Practice for Mobile Networks. Since 2022, he has been a Senior Principal Consultant with Nokia Bell Labs Consulting, based in Dallas, TX.

Dr. Mismar joined the Electrical Engineering and Computer Science Department at The University of Texas at Dallas as an Assistant Adjunct Professor in 2021 and has served as an Associate Adjunct Professor since 2024. He is the author of more than ten IEEE journal and conference publications with over 850 citations. His research interests span radio resource management, performance optimization and root-cause analysis, and the application of machine learning and artificial intelligence (AI) to cellular, non-terrestrial, and emerging wireless networks. His research has directly influenced 3GPP standardization, including technical impact on conditional handovers in 3GPP TS 38.300. He holds three granted patents with several pending and has led or contributed to over 100 large-scale telecommunications and AI projects worldwide. He has served as an Associate Editor of IEEE Transactions on Machine Learning in Communications and Networking since 2025.

Dr. Mismar received the University of Jordan Award for Excellence in 2004 and the Marcus Wallenberg Foundation Scholarship for Scientific Research and Education in 2016 and 2017. He became an IEEE Senior Member in 2017 and received the Nokia Bell Labs Distinguished Member of Technical Staff Award in 2023 for “sustained contributions with proven impact” in telecommunications and AI. He is serving as an IEEE Communications Society Distinguished Lecturer in 2026-2027

SELECTED HIGHLIGHTS

- Senior Principal Consultant, Nokia Bell Labs Consulting (since 2022)
- Associate Adjunct Professor, The University of Texas at Dallas (since 2024)
- IEEE Senior Member; IEEE Communications Society Distinguished Lecturer (2026–2027)
- More than 10 IEEE journal and conference publications and over 950 citations
- Three granted patents, several pending, and contribution to more than 100 large-scale telecommunications and AI projects worldwide
- Research spanning radio resource management, performance optimization, root-cause analysis, and AI/ML for emerging wireless networks

USEFUL LINKS & CONTACT

Speaker website : <https://farismismar.com/>

IEEE ComSoc Distinguished Lecturer profile:

<https://www.comsoc.org/engagement-community/distinguished-lecturers/faris-b-mismar>

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