



**The Institute of Electrical and Electronics Engineers  
(IEEE)  
Galveston Bay Section  
ComSoc Chapter**



IEEE ComSoc May, 2021 – Virtual

**Distinguished Lectures (VDL) Series**

Hosted by IEEE Austin ComSoc/SPSoc/CTSoc Joint Chapters & Computer/EMBS joint Chapters,  
cohosted by GBS/ComSoc

**Please circulate**

**May 13, 2021**

**Noon Central Standards Time (CST)**

**Topic: “What's the Story with UAV Cellular Communications?”**

**Error! Filename not specified.**

**Giovanni Geraci**

Assistant Professor at University Pompeu Fabra (UPF), Barcelona,

Coordinator of the Bachelor's degree in Telecommunications Network Engineering

PLEASE RSVP and Details <https://events.vtools.ieee.org/m/270717>

Those that register for the event will receive WebEx/Zoom info before the event.

**Abstract:**

What will it take for UAVs—and the associated ecosystem—to take off? Arguably, ubiquitous high-capacity links paired with hyper-reliable command and control all along. And indeed, meeting these aspirations may entail a full-blown mobile network support. While the understanding of UAV cellular communications has been advancing, many fundamental challenges remain to be addressed, with new applications demanding original solutions. In this talk, we blend academic and industrial views, navigating from 4G to 6G UAV use cases, requirements, and enabling technologies.

In this talk, we blend academic and industrial views, navigating from 4G to 6G UAV use cases, requirements, and enabling technologies.



**The Institute of Electrical and Electronics Engineers**  
**(IEEE)**  
**Galveston Bay Section**  
**ComSoc Chapter**



**Bio:**

I am an Assistant Professor at University Pompeu Fabra (UPF) in Barcelona, and the coordinator of the Bachelor's degree in Telecommunications Network Engineering. I was previously a Research Scientist with Nokia Bell Labs and hold a Ph.D. from UNSW Sydney. I also held research appointments at the Singapore University of Technology and Design, The University of Texas at Austin, CentraleSupélec, and Alcatel-Lucent.

I am a Distinguished Lecturer of the IEEE Communications Society, an Editor for the *IEEE Transactions on Wireless Communications* and *IEEE Communications Letters*, and the Wireless Communications Symposium co-Chair for IEEE ICC'22. I am a frequent organizer of IEEE international workshops, have featured in over ten IEEE industry seminars, tutorials and workshop keynotes, and am co-Editor of the book "UAV Communications for 5G and Beyond" (Wiley – IEEE Press, 2020). I am co-inventor of a dozen patents, have written for the IEEE ComSoc Technology News, and received international press coverage.

I was awarded two of the most competitive early-career research fellowships in Spain: a "la Caixa" Junior Leader (2018-2021) and a "Ramon y Cajal" (2021-2026) Fellowship. I was named an Exemplary Reviewer for the IEEE Transactions on Wireless Communications in 2017 and 2018. I received the Nokia Bell Labs Ireland Certificate of Outstanding Achievement in 2017, the IEEE Communications Society Outstanding Young Researcher Award for Europe, Middle-East, and Africa in 2018, and the IEEE PIMRC Best Paper Award in 2019.

About me: I like coffee, surprises, and living by the sea. Born and raised in Sicily, I have been living across six continents for work/love/adventure. I have been inspired by great mentors and colleagues, and consider myself privileged for the opportunities I was given.

For any question, please contact IEEE ComSoc Austin Chair Fawzi Behmann, [f.behmann@ieee.org](mailto:f.behmann@ieee.org)

For any question, please contact Fawzi Behmann, [f.behmann@ieee.org](mailto:f.behmann@ieee.org)

\*\*\*\*\*