



The Institute of Communication Networks and Satellite Communication invites you to the  
Guest Lecture

**“Using AI to Support Space Systems Development and Operations”**

by Dr. Wiley Larson

on Friday, January 16, 2026, 17:00

Lecture Hall i2, Inffeldgasse 12, 8010 Graz

**Abstract**

Over three years of research and practical work with NASA and SpaceTech teams, the presentation explores how AI can be applied to the design, development, and operation of space systems. By creating and evaluating system-engineering artifacts with and without AI, the work shows that AI significantly accelerates early-phase development, enhances systems engineers’ ability to contribute, and shifts their focus toward overall mission success and technical credibility. The findings indicate that most AI tools are accurate about 80–85% of the time and can act as valuable team contributors, especially for real-time operators. The project also identifies which AI packages are best suited for specific systems-engineering tasks and highlights practical insights into what works and what does not, forming the basis for the concluding remarks.

**Biography**

Dr. Wiley Larson is managing editor of McGraw-Hill’s Space Technology Series and editor and coauthor of Space Mission Analysis and Design, co-editor of Applied Space Systems Engineering and over 20 other reference books on space systems. He is the Director and Distinguished Service Professor for the Space Systems Engineering Master’s program at the Stevens Institute of Technology (New Jersey, USA) and director of SpaceTech’s Masters Program in Space Systems and Business Engineering at Graz University of Technology (<http://spacetechnology.tugraz.at/>). He has also served as Head of Engineering at the International Space University in Strasbourg, France, and has over 40 years experience in space launch, satellite integration and test, and space mission design. He has consulted with numerous government and industry organizations and taught thousands of people around the world. Wiley is an elected member of the International Academy of Astronautics. He is also an adjunct professor at Stevens Institute of Technology.