

Presentation



Education:

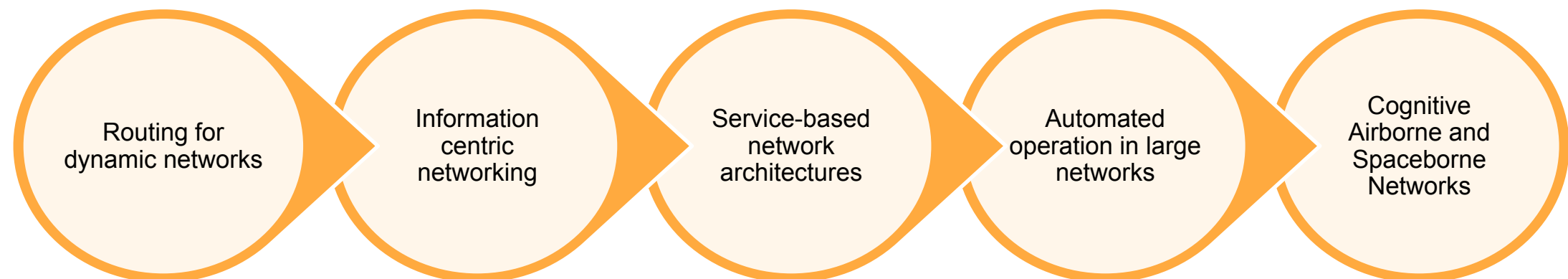
- 2004 - Ph.D. (summa cum laude) in Informatics Engineering from the **University of Coimbra**, Portugal.

Visiting Positions:

- 2013.08 - **University of California at Los Angeles** (Los Angeles, USA).
- 2000 – 2003 - **Columbia University** (New York, USA) – PhD work.

Work Experience:

- Since 2022 - Associated Research at TUM.
- Since 2019 – Expert in Network Architectures and Protocols at Airbus Central Research & Technology.
 - Guest Researcher at the iSTAR research center, Lisbon.
 - Visiting Professor at University Lusofona, Lisbon.
- 2010 – 2019 – Associated Professor at University Lusofona, Lisbon.
 - Co-founder and director of COPELABS Research Center, Lisbon.
- 2007 – 2010 – Group coordinator at INESC TEC research center, Porto.
- 2003 – 2007 – Senior Researcher at NTT Docomo, Munich, Germany.



My Current Interests

Questions

- What will be the role of satellites and other Airborne / Spaceborne networks in:
 - a more decentralized Internet architecture?
 - the development of in-network computing frameworks?
 - development of new security schemes (e.g. Space based QKD networks)?
- How can a network support data transfer based on different addressing schemes (host IDs, Data IDs, Geographic IDs)?
- What kind of routing approach will be suitable for 3D networks including aircrafts, HAPS, LEO, MEO and GEO networking equipment?
- How can a dynamic network, as is the case of satellites and other Airborne / Spaceborne networks, support deterministic networking services?
- How smart can a network be in predicting future behaviors?
- How to reach a good level of network simplification and automation?