

Seminar on Advanced topics in digital communications



Escuela Universitaria de Ingeniería Técnica de Telecomunicación

Universidad Politécnica de Madrid



Contents

1. Introduction to Digital Communications
2. Aims and constraints of Digital Communication System designer.
3. Digital Modulation for Wireless Communications
4. M-ary Modulation, M-ary PSK, M-ary QAM, Error Performance and Bandwidth Efficiency
5. Channel coding, Introduction to Block coding.
6. Convolutional coding and Viterbi Decoder.

Prof. Dr. Falah Ali

Prof. Ali is a Reader in Digital Communications, School of Engineering and Design, University of Sussex, UK. He is Fellow Member of the Institute of Engineering and Technology (FIET) and Chartered Engineer Engineering Council (CEng). I am also a Senior Member of the Institute of Electrical and Electronics Engineers (SMIEEE) and a member of the IEEE Communications Society. His research expertise is in the field of digital communications for mobile and wireless communication systems.

Timetable

Tuesday, September 11th: 15:30h - 17:30h

Wednesday, September 12th: 15:30h - 17:30h

Thursday, September 13th: 15:30h - 17:30h

Room

3004

Audience and Inscriptions

This seminar is mainly aimed to Master students.

Inscriptions should be done at the Master program secretary (room 6104) or at the event room.

Due: September 7th

Credits

The students attending the event will get 1 ECTS by completing an additional home work.