

# Seminar on Coding



## Escuela Universitaria de Ingeniería Técnica de Telecomunicación



Universidad Politécnica de Madrid

### Contents

Lecture 1: Introduction to Error Correcting Codes

Lecture 2: One Lesson of Information Theory

Lecture 3: State-of-the-art channel coding

### Professor: Dr. Volker Kühn

Dr. Kühn received the diploma degree in electrical and electronics engineering from the University of Paderborn in 1993. From 1994 to 1998 he was with the Department of Communications Engineering at the University of Paderborn. After receiving the Ph.D. degree in 1998, he joined the Department of Communications Engineering at the University of Bremen where he wrote his postdoctoral thesis. From 2005 to 2006, he was with Qualcomm CDMA Technologies GmbH in Nuremberg, Germany. In 2006, he became a Professor for Communications Engineering at the University of Rostock, Germany.

Dr. Kühn is author/co-author of three text books and numerous conference and journal contributions. His main field of interest is mobile radio communications, especially the topics error correcting codes, multiple antenna systems, iterative detection and distributed coding strategies in relay and sensor networks.

### Timetable

Monday 27<sup>th</sup> September: 15:30h - 16:30h

Tuesday 28<sup>th</sup> September: 15:30h - 16:30h

Wednesday 29<sup>th</sup> September: 16:30h - 17:30h

### Room

3004

### Audience and Inscriptions

This seminar is aimed to Master students and 3er level students.

Inscriptions should be done at the student's secretary of the EUIT de Telecomunicación or at the event room

### Credits

The students attending the event will get 1 credit. Master students must complete the proposed homework.