Seminar on
MPEG Reconfigurable Video Coding

Escuela Universitaria de Ingeniería Técnica de Telecomunicación

Universidad Politécnica de Madrid

Program:

Lesson 1: Videocoding.

In the first part of the lecture the video coding standard will be introduced. The main topic of the first part of the lecture is the introduction of the basic information of video coding standard such MPEG-4 part 2, MPEG-4 AVC/H.264 or Scalable Video Coding. Differences between those standards will be discussed.

Lesson 2: Reconfigurable Video Coding.

The second part of the lecture gives an overview of MPEG Reconfigurable Video Coding (RVC). MPEG RVC is based on Abstract decoder model written in the interpreted CAL actor language. Basics on the language will be enlightening.

Lesson 3: Practical implementation of RVC systems.

In the third part of the lecture a bunch of RVC systems will be discussed. Both hardware and software implementation of RVC abstract decoder model will be given.

Professor: Dr. Mickaël Raulet

Mickaël Raulet received the Engineering degree in electronic and computer engineering from National Institute of Applied Sciences (INSA), Rennes Scientific and Technical University. In 2006, he received the Ph.D. degree from INSA in electronic and signal processing in collaboration with the software radio team of Mitsubishi Electric ITE (Rennes–France). He is currently a researcher at the Institute of Electronics and Telecommunications of Rennes (IETR). Since 2007, he has been contributing to the ISO/IEC JTC1/SC29/WG11 (MPEG) standardization activities for the development of the RVC standard.

Timetable

Wednesday 9th May: 15:30h - 17:30h

Thursday 10th May: 15:30h - 17:30h

Friday 11th May: 15:30h - 17:30h

Room

3004

Audience and Inscriptions

This seminar is mainly aimed to Master students and 3rd level students.

Inscriptions should be done at the students' secretary of the Master program or at the event room.

Credits

The students attending the event will get 1 credit. Master students should perform an additional home work.