

Máster en Ingeniería de Telecomunicación

Aplicaciones Multidisciplinares - Seminarios

The world of Video Compression

PhD. Glenn Van Wallendael (Ghent University)

22 de diciembre de 2016 a las 15:00h en el aula 1.1 del edificio Altabix.

Summary:

From every device I encounter in my life, I like to know how it works. Well, 10 years ago, I wondered how video, with 2.000.000 pixels per image, can be made so small that it can be stored, downloaded and displayed on my device. During this seminar, I will explain where we are today, what techniques are being used, and where the video compression community is heading. Actually, there are two communities, the one using patents, and the one being against patents, and you will understand their positions better after the talk. So, did you ever wonder who develops standards like MP3 or MP4 and how this is done? For the standardization activities of HEVC, imagine up to 1000 international developers from competing companies in a meeting room discussing gradual improvements of less than 1% during 10 full days in a row. Doing this four times a year, that is MPEG. Even with these standards, if you wonder why a video is not playing on your device as it should be, this seminar can provide you with insight.

Bio:

Glenn Van Wallendael obtained the PhD degree in Engineering from Ghent University, Belgium in 2013. During his PhD, he worked on the improvement of video compression technology. He presented his research findings during ITU-T and ISO standardization meetings in order to improve the HEVC compression standard. Currently, he is active in the standardization activities of High Dynamic Range, Image compression, Video Quality, and even DNA compression activities within ITU-T and ISO standardization groups.