

Poznań University of Technology
Chair of Multimedia Telecommunications and Microelectronics
ul. Polanka 3, PL-60965 Poznań

Multimedia Research Group

Profile: Recognized research group for fundamental and industry-oriented research in telecommunication, electronics and information processing. <http://www.multimedia.edu.pl>

Staff: 20 researchers and PhD students led by Prof. Marek Domański.

Prof. M. Domański awarded with Donation of Foundation for Polish Science (2005).

Dominant founding from industry-oriented projects.

Recent industrial partners: ADB Poland (digital television), Evatronix (IP cores for FPGA/ASIC), TVP S.A. (interactive television), Mitsubishi Electric (Video).

Areas of expertise:

Audio and video compression; Image, video and audio processing

Audio and video codec development (hardware and software)

Digital television; Digital video surveillance and biometrics

Medical image processing

IP cores development; FPGA programming; Design for FPGA and ASIC

Recent and/or running projects:

Technology development for advanced multimedia systems

H.264/AVC video codec software and hardware development

MPEG-4 AAC audio decoder DSP implementation

Video transcoder development; Videoconferencing codec development

IP cores for video processing and compression

Image and video automatic analysis; Automatic extraction of video metadata

Scalable video compression improvements; Multiview video coding

Wavelet video coding with low delay; Video transcoding

International Standardization Activities in Multimedia:

Many contributions to MPEG (ISO) and JVT (ISO+ITU)

Our scalable video codec was ranked within three the best codecs in MPEG March 2004 contest for scalable coding (the other codecs were from HHI Berlin and MS Research Asia)

Organization of the 73rd MPEG and 16th JVT Meeting in Poznań (July 2005) – first meeting in central Europe, 348 participants

Joint experiments (e.g. partners from USA and Korea)

Activities in Polish standardization (e.g. translation of standards)

International Research Projects in Multimedia:

EU-funded research:

MASCOT project (with Philips, Fraunhofer Institute Germany, universities from Paris and Barcelona, CWI Amsterdam)

Bilateral research projects:

Research on scalable video compression - joint project with VUB Brussels

NATO funded research co-operation

Foreign - industry - founded activities (HHI Berlin, Mitsubishi Electric)

Expression of interest 7FP: ICT

R&D projects in multimedia, consumer electronics, FPGA, video surveillance, information processing for health, digital television etc.

Prospective role: participant

Call: 2007

We seek cooperation in our area of expertise.

Contact person:

Prof. Marek Domanski

Poznan University of Technology

ul. Polanka 3, 60-965 Poznan, Poland

Phone: +48 61 66 53 901, Fax: +48 61 66 53 899,

E-mail: domanski@et.put.poznan.pl

<http://multimedia.edu.pl>