Lecturer Cristina Claudia Oprea

Cristina Oprea is currently having a Lecturer position at the Faculty of Electronics, Telecommunications and Information Technology from the University Politehnica of Bucharest. Main research interests are image and video processing, video coding, video quality assessment and multimedia security. Her PhD Thesis, finished in 2012, was titled "*Perceptual modelling solutions with applications in video quality assessment*". The thesis deals with theoretical aspects of human vision, as well as their applicability in the objective metrics implementation for quality evaluation.

During the period of doctoral studies (2007-2008), C. Oprea has been the **director** of a research grant "*Perceptual modelling solutions with applications in video quality assessment*" funded by CNCSIS, TD-309/2007. She has also been a team **member** in several other research projects, to name the most relevant: "*Contributions in multimedia content authentication for legal applications, using digital watermarking techniques*"— funded by UEFISCDI, PN-II, type TE, number 10/05.10.2011-2014, "*PROMISE – Multimedia – Integrated system of master study programs for sound, images and multimedia applications*" – funded by The European Social Fund POSDRU /86/1.2/S/61810 between 2010-2013.

Cristina Oprea gathered more than 20 citations in journals and conference proceedings indexed ISI Thomson Reuters Web of Science and IEEE Xplore.

Some articles and special awards, relevant for this current project proposal, are:

- "*Perceptual Video Quality Assessment Based on Salient Region Detection*"; **Oprea, Cristina**; Pirnog, Ionut; Paleologu, Constantin; Conference: 5th Advanced International Conference on Telecommunications. Venice, ITALY, AICT: 2009 Pages: 232-236. 2009. Indexed ISI Thomson Reuters Web of Science WOS:000272076100041. ISBN:978-1-4244-3840-2.
- "*Image Content Extraction Using a Bottom-up Visual Attention Model*"; Pirnog, Ionut; **Oprea, Cristina**; Paleologu, Constantin. Conference: 3rd International Conference on the DigitalSociety. Cancun, Mexico. ICDS 2009, Pages: 300-303. 2009. Indexed ISI Thomson Reuters Web of Science WOS:000266762800051. ISBN:978-1-4244-3350-6.
- „*Best Paper Award*" for the paper „Saliency detection based on human perception of visual information", **C. Oprea**, Ctin. Paleologu, I. Pirnog, M. Udrea, presented at AICT 2010, Barcelona, Spain.
- „*Best Paper Award*" for the paper „Robust digital video watermarking in the spatial and wavelet domain", R.O. Preda, **C. Oprea**, I. Pirnog, L.A. Perisoara, presented at ICDT 2012, Chamonix, France.
- "*Cutaneous melanoma risk evaluation through digital image processing*". Pirnog, Ionut; **Oprea, Cristina,** Conference: 11th International Symposium on Electronics and Telecommunications (ISETC). Timisoara, ROMANIA 2014. Indexed ISI Thomson Reuters Web of Science. WOS:000366633300060. ISBN:978-1-4799-7267-8.
- "*Automatic lesion segmentation for melanoma diagnostics in macroscopic images*". I. Pirnog, RO Preda, **C Oprea**, C Paleologu. 23rd European Signal Processing Conference (EUSIPCO), 2015 . Pages 659-663. Indexed IEEE Xplore. DOI: 10.1109/EUSIPCO.2015.7362465.
- "*Saliency Detection Making Use of Human Visual Perception Modelling*". **C Oprea**, C Paleologu, I Pirnog, M Udrea. International Journal on Advances in Life Sciences Volume 2, Number 3 & 4, 2010. ISSN: 1942-2660.