

Lista de lucrări Conf.dr.ing. Corneliu-Nicolae FLOREA

Lista celor 10 lucrări considerate reprezentative:

- 1 Laura Florea, **Corneliu Florea**, Ciprian Ionascu, "Avoiding the Deconvolution: Framework Oriented Color Transfer for Enhancing Low-Light Images", CVPR workshop on CCD 2016, Las Vegas U.S (<30% acceptance rate)
- 2 Laura Florea, **Corneliu Florea**, Constantin Vertan, "Recognition of the gaze direction: Anchoring with the eyebrows", *Journal of Visual Communication and Image Representation*, Vol 35, pp. 67-77, 2016
- 3 Raluca Boia, **Corneliu Florea**, Laura Florea , Radu Dogaru, "Logo localization and recognition in natural images using homographic class graphs", *Machine Vision and Applications*, February 2016, Volume 27, Issue 2, pp 287-301
- 4 Raluca Boia, **Corneliu Florea**, Laura Florea, "Elliptical ASIFT Agglomeration in ClassPrototype for Logo Detection" la BMVC 2015, Swansea, UK, pp.115.1-115.12, ed. Xianghua Xie, Mark W. Jones, and Gary K. L. Tam, (33% acceptance rate)
- 5 **Corneliu Florea**, Constantin Vertan; Laura Florea "High Dynamic Range Imaging by Perceptual Logarithmic Exposure Merging", in *International Journal of Applied Mathematics and Computer Science* (AMCS) in 2015, Vol. 25, No. 4, pp. 943–954
- 6 **Corneliu Florea**, Laura Florea, Constantin Vertan, "Learning Pain from Emotion: Transferred HoT Data Representation for Pain Intensity Estimation" In ECCV workshop on ACVR 2014, Zurich, Switzerland
- 7 Laura Florea, **Corneliu Florea**, Ruxandra Vranceanu, Constantin Vertan "Can Your Eyes Tell Me How You Think? A Gaze Directed Estimation of the Mental Activity", in British Machine Vision Conference (BMVC), Bristol, United Kingdom, 2013. (33% acceptance rate)
- 8 Ruxandra Vranceanu, **Corneliu Florea**, Laura Florea, Constantin Vertan, "Gaze Direction Estimation by Component Separation for Recognition of Eye Accessing Cues", *Machine Vision Application* DOI :10.1007/s00138-014-0656-8, Volume 26, Issue 2-3, pp 267-278,
- 9 Razvan Condorovici, **Corneliu Florea**, Constantin Vertan "Automatically Classifying Paintings with Perceptual Inspired Descriptors", *Journal of Visual Communication and Image Representation*, in Vol. 26 , pp. 222–230, 2015
- 10 **Corneliu Florea**, Laura Florea, "Parametric Logarithmic Type Image Processing for Contrast Based Auto-Focus in Extreme Lighting Conditions", in *International Journal of Applied Mathematics and Computer Science*, Vol. 23, No. 3, 2013, pp. 637 - 648.

Lista completă de lucrări:

I. TEZA DE DOCTORAT (T)

T1. C. Florea "Reprezentări neliniare si operații punctuale pentru îmbunătățirea imaginilor achiziționate cu camere fotografice digitale", Universitatea „Politehnica” Bucuresti, 2009, 131 pag. http://alpha.imag.pub.ro/common/staff/cflorea/CFlorea_tezaDoct.pdf

II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studentilor, publicate în edituri recunoscute.

Ca1. C.Vertan, **C. Florea**: "Achiziția și prelucrarea imaginilor color", Editura Politehnica Press, Bucuresti 2013, ISBN 978-606-515-476-6, 202 pag, Cod CNCIS 19

Ca2. L. Florea, **C. Florea**, "Sisteme software pentru prelucrarea imaginilor" Editura Politehnica Press, Bucuresti 2013, ISBN 978-606-515-474-2, 178 pag, Cod CNCISIS 19

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb4. L. Florea, **C. Florea**, Constantin Vertan "Extended eye landmarks detection for emerging applications" in Advances in Face Detection and Facial Image Analysis, în M. Kawulok et al. (eds.), "Advances in Face Detection and Facial Image Analysis", DOI 10.1007/978-3-319-25958-1_15 Springer International Publishing Switzerland, ISBN (hardcover): 978-3-319-25956-7, ISBN(eBook): 978-3-319-25958-1. aprilie 2016, chapter 23, Springer 2016, pg 397-434 (38 pag)

Cb5. **C. Florea**, Mihai Ciuc "Analiza feței umane" - editura Politehnica Press, Bucuresti 2016, ISBN 978-606-515-1, 221 pag. Cod CNCISIS 19,

C. Florea, B. Ionescu, C. Vertan: "Computer Vision - Tehnici de Calibrare a Camerei Digitale și Analizei Informației Vizuale", Editura MatrixRom, (ISBN 978-973-755-942-5), 2013.180 pag. Cod CNCISIS 139

Cb5. C. Vertan, M. Ciuc, M. Zamfir, **C. Florea**, L. Florea, A. Sultana, T. Radulescu: "Prelucrarea și analiza imaginilor digitale - elemente fundamentale și aplicații avansate", Editura MatrixRom, București, Romania, 2013. ISBN978-973-755-367-6, 270 pag. Cod CNCISIS 139

Cc - Cărți publicate în alte edituri, cu ISBN.

III. ALTE MATERIALE PUBLICATE (I, D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

I1. **C. Florea**; L. Florea: "Prelucrarea statistică a informației - îndrumar de laborator", Ed. MatrixRom, Bucharest, Romania, 2008. ISBN978-973-755-367-6, 127 pag. Cod CNCISIS 139

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).

Ris1. A. Bandrabur, L. Florea, R. Boia, **C. Florea**, "Automatic Robust Localization of Eye Related Landmarks", Buletinul Științific al UPB , seria C, Series C, Vol. 77, Iss. 4, 2015, pp. 223-234 **Index Copernicus**

Ris2. **Corneliu Florea**, Constantin Vertan; Laura Florea " TESPAS-Based 2D Shape Recognition ", in Scientific Bulletin of University "Politehnica" of Bucuresti, Electronics and Telecommunications, series C, Vol. 78, Iss. 2, 2016, Page 79-88 **Index Copernicus**

Ris3. Raluca Boia, **Corneliu Florea**, Laura Florea , Radu Dogaru, "Logo localization and recognition in natural images using homographic class graphs", Machine Vision and Applications, February 2016, Volume 27, Issue 2, pp 287-301, WOS:000373682400009 **ISI, factor de impact 1.351;**

Ris4. Laura Florea, **Corneliu Florea**, Constantin Vertan, "Recognition of the gaze direction: Anchoring with the eyebrows", Journal of Visual Communication and Image Representation, Vol 35, pp. 67-77, 2016, WOS:000369879600006 **ISI, factor de impact 1.218; Science direct**

Ris5. Laura Florea, **Corneliu Florea**, Constantin Vertan, "Robust eye centers localization with zero-crossing encoded image projections", Pattern Analysis Applications, DOI 10.1007/s10044-015-0479-x; Mai 2015, Springer

Ris6. **Corneliu Florea**, Constantin Vertan; Laura Florea "High Dynamic Range Imaging by Perceptual Logarithmic Exposure Merging", in International Journal of Applied Mathematics and Computer Science (AMCS) in 2015, Vol. 25, No. 4, pp. 943-954 WOS:000367468200017 **ISI, factor de impact 1.227;**

Ris7. Ruxandra Vranceanu, **Corneliu Florea**, Laura Florea, Constantin Vertan, "Gaze Direction Estimation by

Component Separation for Recognition of Eye Accessing Cues", Machine Vision Application DOI :10.1007/s00138-014-0656-8, Volume 26, Issue 2-3, pp 267-278, 2016, WOS:000351462900008 **ISI, factor de impact 1.351;**

Ris8. Peter Corcoran, Cosmin Stan, **Corneliu Florea**, Mihai Ciuc, Petronel Bigioi, „Digital Beauty: The good, the bad, and the (not-so) ugly” IEEE Consumer Electronics Magazine, Vol: 3 (4) DOI: 10.1109/MCE.2014.2338573 2014 , Page(s): 55 – 62 **IEEE Explore**

Ris9. Razvan. Condorovici, **Corneliu Florea**, Constantin Vertan, "Automatically Classifying Paintings with Perceptual Inspired Descriptors" accepted in Journal of Visual Communication and Image Representation DOI: 10.1016/j.jvcir.2014.11.016, 2014 Vol. 26 , pp. 222–230, 2015; **ISI, factor de impact 1.218; Science direct**

Ris10. Ruxandra Vranceanu, Laura Florea, **Corneliu Florea** „A Computer Vision Approach for the Eye Accessing Cue Model Used in Neuro-Linguistic Programming” in Scientific Bulletin of University "Politehnica" of Bucuresti, Electronics and Telecommunications, series C, Vol. 75, Iss. 4, 2013, pp. 79-90, **Index Copernicus**

Ris11. **Corneliu Florea**, Laura Florea, „Logarithmic Type Image Processing Framework for Enhancing Photographs Acquired in Extreme Lighting” in *Advances in Electrical and Computer Engineering* Vol. 13, No. 2, pp. 97-104,2013, WOS:000322179400016 **ISI, factor de impact 0.529**

Ris13. **Corneliu Florea**, Laura Florea, "Parametric Logarithmic Type Image Processing for Contrast Based Auto-Focus in Extreme Lighting Conditions", in *International Journal of Applied Mathematics and Computer Science*, Vol. 23, No. 3, 2013, pp. 637 - 648. WOS:000325208900012 **ISI, factor de impact 1.227**

Ris14. Laura Florea, **Corneliu Florea**, Constantin Vertan, Alina Sultana “Automatic Tools for Diagnosis Support of Total Hip Replacement Follow-up” in *Advances in Electrical and Computer Engineering*, 2011, Issue 4, Year 2011, Page(s): 55 – 62; WOS:000297764500009 **ISI, factor de impact 0.529**

Ris15. **Corneliu Florea**, Constantin Vertan “Piecewise linear approximation of logarithmic image processing models for dynamic range enhancement”, *Buletinul Științific al Universității "Politehnica" București*, seria Electronică și Telecomunicații, seria C, Vol. 71, Iss. 2, 2009, pp. 3-15 **SCOPUS**

Ris16. Alina Oprea, Constantin Vertan, **Corneliu Florea** , Laura Florea “A Logarithmic-like Image Processing Framework for Biomedical Image Enhancement”, in Scientific Journal of University "Politehnica" of Timisoara, Electronics and Telecommunications Series, Vol 53(67), No. 1-2, 2008, pp. 66-69.**Index Copernicus**

Rio - Alte reviste de specialitate de circulație internațională.

Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se mentioneaza Categoria CNCSIS.

Rno - Alte reviste de specialitate de circulație națională.

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță.

Vis17. Alessandra Bandrabur, Laura Florea, **Corneliu Florea**, Matei Mancas "Emotion Identification by Facial Landmarks Dynamics Analysis" in. Proc. of ICCP 2015 Cluj-Napoca Romania, pp. 379-382. **IEEE Explore**

Vis18. Raluca Boia, **Corneliu Florea**, Laura Florea, "Elliptical ASIFT Agglomeration in ClassPrototype for Logo Detection" la BMVC 2015, Swansea, UK, pp.115.1-115.12, ed. Xianghua Xie, Mark W. Jones, and Gary K. L. Tam, ISBN 1-901725-53-7- **IEEE Explore**

Vis19. Vasile Preda, **Corneliu Florea**, Andreea Sima, Laura Florea " Simple Head Pose Estimation in Still Images ", ISSCS 2015, Iași, Romania, DOI: 10.1109/ISSCS.2015.7203942 **IEEE Explore**

Vis20. Ciprian Ionașcu, **Corneliu Florea**, Laura Florea, " Evaluation of Color Transfer and Denoising Methods for Motion Blur Prevention", ISSCS 2015, Iași, Romania, DOI: 10.1109/ISSCS.2015.7203958 **IEEE Explore**

Vis21. C. Vertan, **C. Florea**, L. Florea, S. Badoiu: "On the performance of focus measures in infrared and near-infrared imagery", ISSCS 2015, 2015, Iași, Romania, DOI: 10.1109/ISSCS.2015.7203976 **IEEE Explore**

Vis22. **Corneliu Florea**, Laura Florea, " Robustifying compressed projections for expressive iris localization " In Proc. Int. Conf. on Electronics, Computers and Artificial Intelligence (ECAI), 2014, pp. 55 – 60 **IEEE Explore**

Vis23. Raluca Boia, **Corneliu Florea**, Homographic Class Template for Logo Localization and Recognition, Pattern Recognition and Image Analysis (IBPRIA 2015), Vol. 9117, Pages: 487-495, WOS:000358315300055, **ISI**

- Vis24.** Corneliu Florea, Laura Florea, Constantin Vertan, "Learning Pain from Emotion: Transferred HoT Data Representation for Pain Intensity Estimation" In ECCV workshop on ACVR 2014, Zurich, Switzerland. 12 pag. WOS:000361841100054 **ISI**
- Vis25.** Raluca Boia, Alessandra Bandrabur, Corneliu Florea, „Local description using multi-scale complete rank transform for improved logo recognition” 10th International Conference on Communications (COMM), page 1-4, 2014 WOS:000345844600067 **ISI**
- Vis26.** Alessandra Bandrabur, Laura Florea, Raluca Boia, Corneliu Florea, „Compressed projections for localization of landmarks in the eye region” 10th International Conference on Communications (COMM), page 1-4, 2014; WOS:000345844600063, **ISI**
- Vis27.** Razvan Condorovici, Corneliu Florea, Ruxandra Vrânceanu, Constantin Vertan "Perceptually-Inspired Artistic Genre Identification System in Digitized Painting Collections", in Proc of Scandinavian Conference on Image Analysis 2013, pp 687-696 WOS:000342988500064 **ISI**
- Vis28.** Razvan Condorovici, Corneliu Florea and Constantin Vertan „Author Identification for Digitized Paintings Collections” in Proc. of IEEE International Symposium on Signals, Circuits and Systems ISSCS, Iulie, Iași, România, 2013, pp. 1-4; WOS:000337926700031 **ISI**
- Vis29.** Ruxandra Vrânceanu, Corneliu Florea, Laura Florea, Constantin Vertan „Automatic Detection of Eye Gaze Direction NLP Applications” in IEEE International Symposium on Signals, Circuits and Systems ISSCS, Iulie, Iași, România, 2013, pp. 1-4; WOS:000337926700030 **ISI**
- Vis30.** Constantin Vertan, Corneliu Florea, Laura Florea, Alina Sultana, „Software Tools for Medical Diagnosis Support Automatic Interpretation of Digital X-ray Films”, in Proc Int. Conf. on e-Health and Bioengineering, pp 1 – 4, EHB 2013, Iasi, Romania; **IEEE Explore**
- Vis31.** Razvan Condorovici, Corneliu Florea, Constantin Vertan „Painting Scene Recognition Using Homogenous Shapes”, in ACIVS, vol. LNCS 8192, Eds. J. Blanc-Talon et al, pp. 262-273, Poznan, Polonia, 2013 WOS:000332973500024 **ISI**
- Vis32.** Ruxandra Vrânceanu, Corneliu Florea, Laura Florea and Constantin Vertan "NLP EAC Recognition by Component Separation in the Eye Region", in Proc Computer Analysis of Images and Patterns 2013, York, United Kingdom, pp. 225-232 **SPRINGER**
- Vis33.** Laura Florea, Corneliu Florea, Ruxandra Vranceanu, Constantin Vertan "Can Your Eyes Tell Me How You Think? A Gaze Directed Estimation of the Mental Activity", in British Machine Vision Conference (BMVC), Bristol, United Kingdom, 2013, 11 pag. **GOOGLE SCHOLAR**
- Vis34.** Laura Florea, Corneliu Florea, Ruxandra Vranceanu, Constantin Vertan “Zero-crossing Based Image Projections Encoding for Eye Localization”, EUSIPCO 2012, pp. 150-154, 2012, Bucuresti, Romania. WOS:000310623800031 **ISI**
- Vis35.** Laura Florea, Serban Oprisescu, Corneliu Florea “Mouth Area Analysis by the Use of Selected Spectral Energies”, Proceedings of the 9th International Conference on Communications COMM2012, pp. 103-106 2012, Bucuresti, Romania WOS:000307808200023 **ISI**
- Vis36.** Ruxandra Vrânceanu, Constantin Vertan, Razvan Condorovici, Laura Florea, Corneliu Florea: ” A Fast Method for Detecting Eye Accessing Cues used in Neuro-Linguistic Programming”, IEEE International Conference on Intelligent Computer Communication and Processing ICCP, Cluj-Napoca, România, 25-27 Aug. 2011, pp. 225 – 229 **IEEE Explore**
- Vis37.** Corneliu Florea, Laura Florea: “A Parametric Non-Linear Algorithm for Contrast Based Auto-Focus”, IEEE International Conference on Intelligent Computer Communication and Processing ICCP, Cluj-Napoca, România, 25-27 Aug. 2011, pp 267 – 271 **IEEE Explore**
- Vis38.** Laura Florea, Corneliu Florea, Constantin Vertan, Bogdan Ionescu “Upper Face Description by Comparative Analysis of Grey-scale Image Pairs”, IEEE International Symposium on Signals, Circuits and Systems ISSCS, pp. 205-208, July, Iași, România, 2011 WOS:000337925400051 **ISI**
- Vis39.** Corneliu Florea, Adrian Capata, Mihai Ciuc, Peter Corcoran, "Facial Enhancement and Beautification for HD Video Cameras", in Proceedings of the 2011 IEEE International Conference on Consumer Electronics, ICCE, Las Vegas, Nevada, USA, Jan 9-12, 2011, pp. 762-763, ISBN:978-1-4244-8709-7 WOS:000295128300371 **ISI**
- Vis40.** Mihai Ciuc, Adrian Capata, Corneliu Florea, “Objective measures for quality assessment of automatic skin enhancement algorithms”, in Proc. la IS&T/SPIE EI 2010, San Jose, U.S.A, January 2010, Paper 7529-23 Conference 7529, 9 pag.. WOS:000283490000022 **ISI**
- Vis41.** Felix Albu, Corneliu Florea, Alexandru Drimborean, Adrian Zamfir “Adaptive recovery of motion blur

point spread function from differently exposed images", in Proc. la IS&T/SPIE EI 2010, San Jose, U.S.A, January 2010, Paper 7537-25, Conference 7537, 8 pag.. [WOS:000285777000023](#) **ISI**

Vis42. Corneliu Florea, Constantin Vertan, Laura Florea, A. Oprea: "Non-linear Parametric Derivation of Contour Detectors for Cellular Images", IEEE International Symposium on Signals, Circuits and Systems ISSCS, pp. 321-325, July, Iași, România, 2009. [WOS:000275854200079](#) **ISI**

Vis43. Alina Sultana, Mihai Ciuc, Laura Florea, **Corneliu Florea**: "Detection of Mammographic Microcalcifications Using a Refined Region-Growing Approach", IEEE International Symposium on Signals, Circuits and Systems ISSCS, vol. 1, pp. 229-233, Iulie, Iași, România, 2009. [WOS:000275854200057](#) **ISI**

Vis44. Felix Albu, Constantin Vertan, **Corneliu Florea**, Alexandru Drimborean "One Scan Shadow Compensation and Visual Enhancement of Color Images", in Proc. la ICIP 2009, Caro, Egypt, November, 2009, pp. 3133-3136. [WOS:000280464301231](#) **ISI**

Vis45. Corneliu Florea, Felix Albu, Constantin Vertan, Alexandru Drimborean "Logarithmic Tools for In-camera Image Processing", in Proc. la 16th IET Irish Signals and Systems Conference ISSC2008, Galway, Ireland, June, 2008, pp. 394-399. **IEEE Explore**

Vis46. Laura Florea, Constantin Vertan, Corneliu Florea: "3D Femoral Bone Approximation in Prosthesis Hip Radiographies", IEEE International Conference on Intelligent Computer Communication and Processing ICCP, pp. 75-82, Cluj, România, 2008 [WOS:000261519200011](#) **ISI**

Vis47. Constantin Vertan, A. Oprea, Corneliu Florea, Laura Florea: "A Pseudo-Logarithmic Image Processing Framework for Edge Detection", ACIVS, vol. 5259, pp. 637-644, Juan-les-Pins, France, 2008. [WOS:000262163800057](#) **ISI**

Vis48. Corneliu Florea, Constantin Vertan, Laura Florea, A. Oprea: "On the Use of Logarithmic Image Processing Models in Total Hip Prostheses X-ray Visualization and Analysis", Medical Image Understanding and Analysis MIUA, pp. 127-131, Dundee, United Kingdom, 2008. **Google Scholar**

Vis49. Felix Albu, **Corneliu Florea**, Adrian Zamfir, Alexandru Drimborean, "Low Complexity Global Motion Estimation Techniques for Image Stabilization", in Proc. La ICCE 2008, Las Vegas, USA, January 9-13 2008, pp. 465-467, [WOS:000258983200082](#) **ISI**

Vis50. Laura Florea, Constantin Vertan, Corneliu Florea, A. Oprea: "Dynamic Range Enhancement of Consumer Digital Camera Acquired Hip Prosthesis Xray Images", EUSIPCO, pp. 1103-1106, Poznan, Poland, 2007. **Eurasip**

Vis51. Corneliu Florea, Constantin Vertan "Dynamic Range Enhancement in Digital Camera Acquisition of Prostheses Hip Xrays" in Proc. la ISSCS 2007, Iasi, Romania, July 2007, vol. 1, pp. 1-4. [WOS:000250471700051](#) **ISI**

Vis52. Corneliu Florea, Constantin Vertan, Laura Florea: "Logarithmic Model-based Dynamic Range Enhancement of Hip Xray Images", ACIVS, vol. LNCS 4678, Eds. J. Blanc-Talon et al, pp. 587-596, Delft, Netherlands, 2007. [WOS:000250340600053](#); **ISI**

Vis53. Laura Sîrbu, Johan Thijssen, Corneliu Florea, Vasile Buzuloiu, Chris deKorte: "Automatic Segmentation of the Heart Muscle from Echocardiographic Images", în Proceedings International Symposium on Signals, Circuits and Systems ISSCS, vol. 1, pp. 39-43 (ISBN 0-7803-9029-6), Iași, România, 2005. [WOS:000231532900010](#) **ISI**

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

Vi54. Razvan Condorovici, Corneliu Florea and Constantin Vertan " Perceptually-Inspired Classification System for Digitized Painting Collections" in Proc. of IEEE European Workshop on Visual Information Processing, Paris, 2013, pp. 286-287.

Vi55. Ruxandra Vrânceanu, Corneliu Florea, Laura Florea and Constantin Vertan" NLP and the Eye Accessing Cue Model: A Computer Vision Perspective" in Proc. of IEEE European Workshop on Visual Information Processing, Paris, 2013, pp. 288-289

Vi56. Constantin Vertan, L. Florea, Corneliu Florea, A. Oprea, M. Popescu, S. Cristea: "Clinical-radiological correlation of the fit of the femoral component of a hip prosthesis: THA follow-up by digital X-ray image processing", EFORT Congress, Nice, France, 2 pag. 2008.

Vi57. Laura Florea, Constantin Vertan, Corneliu Florea, A. Oprea: "Digital Acquisition and Remote Investigation of Film Radiographies of Total Hip Prostheses", MedInfo, pp. 411, Sibiu, Romania, 2 pag. 2007.

Vi58. Constantin Vertan, Laura Florea, Corneliu Florea, Alina Oprea, M.V. Popescu, S. Cristea: "Studiul

corelației clinico-radiologice al potrivirii componentei femurale a unei proteze totale de șold pe baza monitorizării cu un sistem automat de prelucrare digitală a filmelor radiologice”, în Proc. la Simpozionul Național pentru Excelență în Cercetare Științifică Medicală, pp. 58, Octombrie 25-26, 2007, Sibiu, Romania.

Vi59. Constantin Vertan, **Corneliu Florea**, Lavinia Dârlea: "Fuzzy and Geometrical Approach to Luminance-Invariant Color Edge Detection" in Proc. la Communications 2006, București, România, Iunie 2006, pp. 197-200.

Vn - Volumele unor manifestări științifice naționale.

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție.

B1. **C. Florea**, F. Albu, A. Zamfir, A. Drimborean "Handheld Article with Movement Discrimination" US Patent, No. US 7,773,118 Aug. 2010

B2. A. Drimborean, **C. Florea**, F. Albu, A. Zamfir, "Image processing method and apparatus", US Patent, No. US 7,995,855, Aug 2011

B3. F. Albu, E. Steinberg, **C. Florea**, A. Zamfir, P. Corcoran, V. Poenaru, "Image Processing Method and Apparatus" US Patent, No. 8,155,468, Apr. 2012

B4. P. Corcoran, E. Steinberg, P. Bigioi, A. Drimborean, A. Zamfir, **C. Florea**, "Image Processing Method and Apparatus", US Patent, No. US 8,169,486, May 2012

B5. A. Drimborean, P. Bigioi, P. Corcoran, E. Steinberg, A. Zamfir, F. Albu, V. Poenaru, **C. Florea**, "Low Light Video Frame Enhancement", US Patent, No. 8,199,222, Jun, 2012.

B6. F. Albu, A. Drimborean, A. Zamfir, **C. Florea**, P. Corcoran, "Adaptive PSF estimation technique using a sharp preview and a blurred image" US Patent, No. US 8,204,330. Jun. 2012

B7. A. Drimborean, E. Steinberg, **C. Florea**, P. Corcoran, F. Albu, A. Zamfir, V. Poenaru, "Adaptive PSF Estimation Technique Using a Sharp Preview and a Blurred Image" US Patent, No. US 8,208,746. Jun. 2012.

B8. **C. Florea**, F. Albu, A. Zamfir, A. Drimborean, "Handheld Article with Movement Discrimination" US Patent, No. US 8,212,882, Jul. 2013

B9. M.Ciuc, A. Capata, A. Pososin, **C. Florea**, P. Corcoran, V. Mocanu, "Automatic Face and Skin Beautification Using Face Detection" US Patent, No. 8,345,114, Jan, 2013.

B10. F. Albu, A. Drimborean, A. Zamfir, **C. Florea**, P. Corcoran, "Adaptive PSF Estimation Technique Using a Sharp Preview and a Blurred Image" US Patent, No. 8,351,726, Jan. 2013

B11. M.Ciuc, A. Capata, A. Pososin, **C. Florea**, P. Corcoran, V. Mocanu, "Automatic Face and Skin Beautification Using Face Detection" US Patent, 8,384,793, Jan, 2013

B12. F. Albu, E. Steinberg, A. Drimborean, **C. Florea**, A. Zamfir, P. Corcoran, V. Poenaru, "Image Processing Method and Apparatus" US Patent, No. 8,417,055, Apr, 2013.

B13. P. Corcoran, E. Steinberg, P. Bigioi, A. Drimborean, A. Zamfir, **C. Florea**, "Image Processing Method and Apparatus", US Patent, No. US 8,520,082, Aug 2013

B14. M.Ciuc, A. Capata, **C. Florea**, „Eye Beautification” US Patent No. US 8520089 Aug. 2013

B15. F. Albu, E. Steinberg, P. Corcoran, A. Drimborean, A. Zamfir, **C. Florea**, V. Poenaru „Image processing method and apparatus”, US Patent, No. US 8,649,627, Feb 2014

B16. F. Albu, A. Drimborean, A. Zamfir, **C. Florea**, P. Corcoran, „Adaptive PSF estimation technique using a sharp preview and a blurred image”, US Patent, No. US 8,649,628, Feb 2014

B17. M. Ciuc, A. Capata, V. Mocanu, A. Pososin, **C. Florea**, P. Corcoran, „Automatic face and skin beautification using face detection” US Patent, No. US 8,681,241, Mar 2014

B18. A. Drimborean, A. Zamfir, F. Albu, V. Poenaru, **C. Florea**, P. Bigioi, E. Steinberg, P. Corcoran, „Tone mapping for low-light video frame enhancement”, US Patent, No. US 8,698,924, Apr 2014

B19. F. Albu, E. Steinberg, A. Drimborean, **C. Florea**, A. Zamfir, P. Corcoran, V. Poenaru „Image processing method and apparatus” US Patent, No. US 8,737,766 May. 2014

B20. F. Albu, **C. Florea**, A. Zamfir, A. Drimborean, P. Corcoran, "Fast Motion Estimation Method" US Patent, No. US2008,309769, December, 2008.

B21. R. Vranceanu, A. Drimborean, A. Zamfir, F. Albu, V. Poenaru, **C. Florea**, P. Bigioi, E. Steinberg, P. Corcoran "Tone Mapping for Low-Light Video Frame Enhancement", US Patent, No. 2011,0205381, August 2011

B22. P. Bigioi, A. Pososin, M. Gangea, S. Petrescu, P. Corcoran, A. Drimborean, A. Zamfir, **C. Florea** "Digital Camera with an Image Processor", US No. 2013,0010138

B23. R. Vranceanu, R. Condorovici, F. Coleca, **C. Florea**, "Dynamic range extension by combining differently exposed hand-held device acquired images", US No. 2013,0314568.

B24. **C. Florea**, C. Stan, M. Ciuc, A. Capata "Eye Beautification Under Inaccurate Localization" U.S.No. 2013,329,079

B25. P. Corcoran, P. Bigioi, A. Drimborean, A. Zamfir, **Corneliu Florea** "Image Acquisition Method and Apparatus with MEMS Optical Image Stabilization" 2013 891,417

B26. P. Bigioi, A. Pososin, M. Gangea, S. Petrescu, P. Corcoran, A. Drimborean, A. Zamfir, **Corneliu Florea** "Digital Camera with an Image Processor", US No. 2013,0,010,138

A - Inovații și alte creații.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țara/străinătate (**Pn** – naționale, **Pi** - internaționale).

Pn1. Director contract: proiect UEFISCDI Tinere echipe., "Analiza și descrierea perceptuală a artei vizuale românești" (PANDORA), PN-II-RU-TE-2014-4-0733, (Nr. UEFISCDI 253/2015, Nr UPB EL10.15.02) director 550.000 lei (~110.000 EUR). www.imag.pub.ro/pandora

Pn2. responsabil contract: proiect UEFISCDI Parteneriate., "Tehnologie de stabilizare pentru înlăturarea blurului absolut și dinamic datorat mișcării camerei foto pe durata achiziției (SteadyCAM)", PN-II-PT-PCCA-2013-4-0579 (Nr. UEFISCDI 18/2014, Nr UPB EL10.14.03), 1.376.902 lei (~313.000 EUR). www.imag.pub.ro/steadycam

Pn3. cercetător: proiect FP6 "Action Recognition and Tracking based on Time-of-Flight Sensors - ARTTS", European Project FP6-2005-IST-5-034107, 2006-2009, director UPB Prof. Dr. Ing. V. Buzuloiu;

Pn4. cercetător: proiect FP6 "Gaze-based Communication - GazeCom", European Project FP6-2005-IST-5-033816, 2006-2009, director UPB Prof. Dr. Ing. V. Buzuloiu.

Pn5. cercetător: "Experimentul ATLAS la LHC: începutul achiziției de date", I10-09-03, director UPB Prof. Dr. Ing. V. Buzuloiu

Pn6. cercetător: "Sistem de analiză digitală a imaginilor radiologice pentru urmărirea protezelor ortopedice" (SADIRUPO), Grant CEEX 69/2006, UPB number 17-06-14, coordonator UPB, director Prof. Dr. Ing. C. Vertan

Pn7. expert: POS-DRU PROMISE, "An Integrated Master's Degree Programme in the Fields of Sound, Image and Multimedia Engineering", FSE - European Structural Funds POS-DRU, coordonator Universitatea Politehnică din București (Prof. Cristian Negrescu), ID61178 (~4M Eur, <http://promise.pub.ro/>) 2010-2013;

Pn8. expert: POS-DRU ITEMS, "Analysis, Modeling and Simulation Techniques for Imaging, Bioinformatics and Systems", FSE - European Structural Funds POS-DRU, coordonator Universitatea Politehnică din București (Prof. Vasile Buzuloiu, Prof. Mihai Ciuc), ID61756 (~3.5M Eur, <http://www.master-items.ro/>) 2010-2013;

Pn9. cercetător: proiect UEFISCDI "Modelul cancerului canin utilizat ca pretrial clinic pentru oncologia umană" (PRECLIN), 51-021.2/2007, EL10-07-15, beneficiar Inst. Ocolologic București/ CNMP

Pn10. cercetător: proiect CNMP "Integrated System for Real-Time Assistance During the Surgical Act Through 3D Image Reconstruction and Visual Synchronization with Voice Commands", SIATRACH, coordonator Universitatea de Medicină și Farmacie "Carol Davila" din București, partener Universitatea Politehnică din București (Prof. Constantin Vertan) 2008-2011;

Pn11. cercetător: proiect Evaluarea arsurilor prin imagistică multispectrală – BAMSI" PNCDI2 Parteneriate contract 135/2014 (PN-II-PT-PCCA-2013-4-0357), Nr UPB EL10.14.02 responsabil UPB prof. Dr. Ing. C-tin Vertan

F – Alte lucrări de cercetare – dezvoltare

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

Completat la data de 07-06-2016.

Conf. Dr. Ing. Corneliu Nicolae FLOREA