

PERSONAL INFORMATION

Irena Galić



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Sex Female | Date of birth 26/07/1974 | Nationality Croatian

WORK EXPERIENCE

01/10/2017–Present

Associate Professor

Faculty of Electrical Engineering, Computer Science and Information Technology Osijek, Osijek (Croatia)

Vice-Dean for Science and Postgraduate Studies

01/08/2012–31/08/2017

Assistant Professor

Faculty of Electrical Engineering, Osijek (Croatia)

Chair of Visual Computing

Science and Education –Computer Science

- 01/07/2011–31/07/2012 **Senior Research Assistant**
Faculty of Electrical Engineering, Osijek (Croatia)
Science and Education – Computer Science
- 01/10/2007–30/06/2011 **Research Assistant**
Faculty of Electrical Engineering, Osijek (Croatia)
Science and Education – Computer Science
- 01/09/2004–30/09/2008 **PhD Researcher**
Max Planck Institute for Informatics (MPI-INF), Saarbrücken (Germany)
Main subjects of research: image interpolation, inpainting, image compression, surface interpolation, surface compression.
Projects done: EEDC - lossy image compression method; image inpainting method based on partial differential equations lossy surface compression method
- 01/03/2001–30/09/2007 **Research Assistant**
Department of Mathematics, Osijek (Croatia)
Science and Education –Natural Sciences, field Mathematics

01/09/1999–28/02/2001 **Junior Researcher**
 Faculty of Agriculture, Osijek (Croatia)
 Science and Education – Natural Sciences, field Mathematics

EDUCATION AND TRAINING

24/06/2011 **PhD**
 Faculty of Electrical Engineering, Osijek (Croatia)

29/04/2004 **M. Sc. in Computer Science**
 Universität des Saarlandes, Saarbrücken (Germany)

19/06/1999 **Diploma in Mathematics and Computer Science**
 Faculty of Education, Osijek (Croatia)

PERSONAL SKILLS

Mother tongue(s) Croatian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1
German	C2	C2	C1	C1	B1
Bulgarian	B1	B1	B2	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages - Self-assessment grid

Communication skills Good communication skills. Good ability to adapt to multicultural environment gained through my studies and work abroad.

Organisational / managerial skills Good organization skills. Leadership (currently responsible for a team of 12 people)

Job-related skills Image processing algorithms development, surface processing algorithms development

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Programming: C/C++, Matlab, Mathematica, LaTeX, OpenGL

ADDITIONAL INFORMATION

Publications

- N. Breslauer, I. Galić, M. Kuček, I. Samardžić, *Leap Motion Sensor for Natural User Interface*, Technical Gazette, Vol. 26, No. 2, pp. 560–565, 2019.
- H. Leventić, D. Babin, L. Velicki, D. Devos, I. Galić, V. Zlokolica, K. Romić, A. Pižurica, *Left atrial appendage segmentation from 3D CCTA images for occluder placement procedure*, Computers in Biology and Medicine, Vol- 104 (2019), pp. 163-174
- M. Habijan, H. Leventic, I. Galić, D. Babin, *Whole Heart Segmentation from CT images Using 3D U-Net architecture*, Proceedings of 2019 International Conference on Systems, Signals and Image Processing (IWSSIP 2019), Osijek, Croatia, pp.121-126, June 2019.
- K. Romić, I. Galić, H. Leventić, K. Nenadić, *Real-time Multiresolution Crosswalk Detection with Walk Light Recognition for the Blind*, Advances in Electrical and Computer Engineering, Vol. 18 (2018), 1; pp. 11-20
- D. Babin, A. Pižurica, L. Velicki, V. Matić, I. Galić, H. Leventić, V. Zlokolica, W. Philips, *Skeletonization method for vessel delineation of arteriovenous malformation*, Computers in biology and medicine, Vol. 93 (2018), pp. 93-105
- F. Novoselnik, R. Grbić, I. Galić, F. Dorić, *Automatic White Blood Cell Detection and Identification Using Convolutional Neural Network*, 2018 International Conference On Smart Systems And Technologies (SST), Osijek, Croatia, pp. 163-167, October 2018.
- J. Mijatov, V. Zlokolica, R. Obradović, R. Ljubobratović, R. Obradović, V. Mastilović, K. Vdovjak, I. Galić, *Multi-Camera System Calibration for 3D Scene Reconstruction*, Modeling and Visualization, Conference Proceedings of 6th International Conference on Geometry and Graphics (MONGEOMETRIJA 2018), Srbija, Novi Sad, 2018. pp. 380-394
- K. Romić, I. Galić, T. Galba, *Technology Assisting the Blind - Routing on the Staircases Using Wide-angle Camera*, Proceedings of 59th International Symposium ELMAR-2017, Zagreb, pp. 43-46, September 2017.
- H. Leventić, D. Babin, L. Velicki, I. Galić, V. Zlokolica, *Semi-automatic Left Atrial Appendage Segmentation from 3D CCTA images*, Proceedings of 59th International Symposium ELMAR-2017, Zagreb, pp. 51-55, September 2017.
- A. Perišić, M. Lazić, R. Obradović, I. Galić, *Daylight And Urban Morphology: A Model For Analysing The Average Annual Illumination Of Residential Housing*, Technical Gazette, Vol. 23, No. 5, pp. 1343–1350, 2016.
- I. Galić, Č. Livada, B. Zovko-Cihlar, *Image Compression with B-Tree Coding Algorithm Enhanced by Data Modelling with Burrows-Wheeler Transformation*, Automatika - Journal for Control, Measurement, Electronics - Signal Processing and Computational Intelligence, Vol. 57, No. 1, pp. 76-88, 2016.
- H. Leventić, K. Nenadić, I. Galić, Č. Livada, *Compression Parameters Tuning for Automatic Image Optimization in Web Applications*, Proceedings of 58th International Symposium ELMAR-2016, Zadar, Croatia, pp. 181–184, September 2016.
- K. Romić, I. Galić, H. Leventić, *Influence of the Input Image Resolution on the Staircase Detection*, Proceedings of 58th International Symposium ELMAR-2016, Zadar, Croatia, pp. 177–180, September 2016.
- I. Galić, B. Zovko-Cihlar, Č. Livada, *Comparison of Different PDE-based Image Compression Methods with Respect to the choice of PDE*, Proceedings of the 23rd International Conference on Systems, Signals and Image Processing IWSSIP2016, Bratislava, Slovakia, pp. 43–46, May 2016.
- K. Romić, I. Galić, T. Galba, *Technology Assisting the Blind - Video Processing Based Staircase Detection*, Proceedings of 57th International Symposium ELMAR-2015, September 2015, 221-224, Zadar
- M. Kundid, I. Galić, D. Vasić, *Human action identification and search in video files*, Proceedings of 57th International Symposium ELMAR-2015, September 2015, 225-228, Zadar
- H. Leventić, Č. Livada, I. Galić, *Cardiac CT Image Enhancement using Wavelets and Pixel Profiling for 3D Heart Registration and Visualization*, Proceedings of 57th International Symposium ELMAR-2015, September 2015, 229-232, Zadar
- H. Leventić, Č. Livada, I. Galić, V. Zlokolica, L. Velicki, D. Babin, R. Obradović, B. Mihajlović, *4D CT*

- Cardiac image enhancement for Subjective Medical Quality Perception of the Left Ventricle, Book of abstract of 16th Medical Image Perception Conference MIPS XVI, June 2015, 60, Ghent
- D. Štrekelj, H. Leventić I. Galić, *Performance Overhead of Haxe Programming Language for Cross-Platform Game Development*, International Journal of Electrical and Computer Engineering Systems, Vol. 6, No. 1, 9-13, 2015.
- I. Sabolski, H. Leventić, I. Galić, *Performance Evaluation of Virtualization Tools in Multi-Threaded Applications*, International Journal of Electrical and Computer Engineering Systems, Vol. 5, No. 2, 57-62, 2015.
- B. Banjac, B. Zlatković, V. Zlokolica, L. Velicki, N. Čemerlić-Adić, R. Obradović, I Galić, *3D Ground Truth Heart Modeling And Visualization Based On Manually Segmented 4D CT Slices*, Proceedings of 4th International Scientific Conference on Geometry and Graphics moNGeometrija 2014 - Volume 1, Niš, Serbia, 2014. 199-206
- Č. Livada, I. Galić, B. Zovko-Cihlar, *Visual Repercussions Of The Noise Induced Errors In The Communication Channel On Compressed Images*, Proceedings of 10th International Symposium on Telecommunications BIHTEL 2014, Sarajevo, Bosnia and Herzegovina, October 2014.
- M. Habijan, B. Jurišić, I. Galić, *Mouse Control Using a Web Camera Based on Color Pointer Tracking*, Proceedings of 32rd Science in Practice 2014, Osijek, Croatia
- V. Zlokolica, L. Velicki, M. Janev, D. Mitrinovic, D. Babin, N. Ralevic, N. Cemerlic-Adic, R. Obradovic, I. Galić, *Epicardial fat registration by local adaptive morphology-thresholding based 2D segmentation*, Proceedings of 56th International Symposium ELMAR-2014, September 2014, 187-190, Zadar
- Č. Livada, H. Leventić, I. Galić, *Image Segmentation Using Active Contour Models and Partial Differential Equations*, Proceedings of 56th International Symposium ELMAR-2014, September 2014, 187-190, Zadar
- H. Leventić, Č. Livada, I. Galić, *Towards Fixed Facial Features Face Recognition*, Proceedings IWSSIP 2014, 267-270, Dubrovnik, Croatia
- Č. Livada, I. Galić, J. Job, *Coded images sensitivity on the errors in the communication channel transmission*, Technical Gazette, Vol. 21, No. 2, 409-416, 2014
- K. Romić, I. Galić, K. Nenadić, *Automatic vehicle license plate recognition based on advanced thresholding*, Proceedings of 33rd International Symposium KoREMA Automatizacija u prometu Zagreb, Croatia, October 2013.
- M. Habijan, I. Galić, H. Leventić, *Raspoznavanje prometnih znakova izričitih naredbi na temelju boje*, Proceedings of 33rd International Symposium KoREMA Automatizacija u prometu Zagreb, Croatia, October 2013.
- Č. Livada, I. Galić, B. Zovko-Cihlar, *EEDC Image Compression Enhancement by Symbol Prediction*, Proc. 55th International Symposium ELMAR-2013, Zadar, Croatia, September 2013
- Č. Livada, I. Galić, B. Zovko-Cihlar, *EEDC Image Compression Using Burrows-Wheeler Data Modeling*, Proc. 54th International Symposium ELMAR-2012, Zadar, Croatia, September 2012
- K. Romić, I. Galić, A. Baumgartner, *Character Recognition Based On Region Pixel Concentration For License Plate Identification*, Technical Gazette, Vol. 19, No. 2, 2012.
- I. Galić, B. Zovko-Cihlar, S. Rimac-Drlje, *Computer image quality selection between JPEG, JPEG 2000 and PDE compression*, In M. Rupp, C. F. Mecklenbräuker (Eds.) Proc. 19th International Conference on Systems, Signals and Image Processing (IWSSIP), Vienna, Austria, pp.451–455, April 2012
- K. Nenadić, F. Jović, I. Galić, *Possibility of Numerical Coding of DNA Nucleotides for Digital Holographic Processes*. XXV Internationales Wissenschaftliches Kolloquium "Science in Practice", Schweinfurt, Germany, 163-170, 2008.
- I. Galić, J. Weickert, M. Welk, A. Bruhn, A. Belyaev, H.-P. Seidel, *Image compression with anisotropic diffusion*. Journal of Mathematical Imaging and Vision, Vol. 31, 255-269, 2008
- M. Welk, J. Weickert, I. Galić, *Theoretical Foundations for 1-D Shock Filtering*. Image and Vision Computing, Vol. 25, No. 4, 455–463, 2007.
- I. Galić, J. Weickert, M. Welk, A. Bruhn, A. Belyaev, H.-P. Seidel: *Towards PDE-based image compression*. In N. Paragios, O. Faugeras, T. Chan, C. Schnörr (Eds.): Variational, Geometric, and Level Set Methods in Computer Vision. Lecture Notes in Computer Science, Vol. 3752, Springer, Berlin, 37-48, 2005.