

## Martin Čadík – Curriculum Vitæ (March, 2016)

---

CONTACT INFORMATION	Brno University of Technology, FIT Department of Computer Graphics and Multimedia Božetěchova 2 612 66 Brno, Czech Republic	<i>phone:</i> +420 541 141 272 <i>fax:</i> +420 541 141 270 <i>e-mail:</i> cadik@fit.vutbr.cz <i>www:</i> <a href="http://www.fit.vutbr.cz/~cadik/">http://www.fit.vutbr.cz/~cadik/</a>
OBJECTIVE	To obtain a full-time creative job as a researcher in the area of computer vision, computer graphics, machine learning or image processing.	
EDUCATION	2002–2008: <i>Ph.D. studies</i> at the Department of Computer Science and Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague (outstanding dissertation award)  1996–2002: <i>Ms.C. studies (Ing.)</i> at the Department of Computer Science and Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague; graduated in computer graphics with distinction  1992–1996: <i>Secondary school</i> of electrical engineering, Karla IV. 13, Pardubice; specialization in computer engineering; graduated with distinction	
RESEARCH VISITS	2016: INRIA - Willow Project, Paris, France (J. Sivic); Visual geo-localization  2012: Czech Technical University, Prague, Czech Republic (D. Sýkora); Visual perception for cartoon animations  2012: Bangor University, Wales, United Kingdom (R. Mantiuk); Objective image quality assessment  2008: Universitat de Girona, Girona, Spain (L. Neumann, R. Garcia); Real-time HDR tone mapping  2007: Computer Vision and Robotics Group, University of Girona, Girona, Spain (L. Neumann, R. Garcia); HDR tone mapping, color to grayscale conversion  2005–2006: Department of Informatics, Hochschule für Technik und Wirtschaft, Dresden, Germany; (W. Paetzold, L. Neumann); research and development of new tone mapping methods  2005: Institute of Computer Graphics and Algorithms, Vienna University of Technology, Austria (S. Jeschke, M. Wimmer, A. Neumann); high dynamic range imaging  2004: Institute of Computer Graphics and Algorithms, Vienna University of Technology, Austria (A. Artusi, M. Wimmer); implementation and comparison of tone mapping algorithms	
RESEARCH ACTIVITIES	<i>Reviewer for journals and conferences:</i> ACM TOG, ACM SIGGRAPH, EUROGRAPHICS, IEEE PAMI, IEEE TIP, ACM TAP, IEEE CVPR, Wiley CGF, Elsevier Journal of Visual Communication and Image Representation, Optica Applicata, IET Image Processing  HiVisComp 2014, 2015, 2016, 2017, Czech Republic, Slovakia <i>founder, program and organization committee member</i>  EUROGRAPHICS 2014, France, <i>short-paper program committee member</i>	

First International Conference and SME Workshop on HDR imaging 2013, Portugal, *program committee member*

EGSR 2010, Saarbrücken, Germany, *poster session chair*

EUROGRAPHICS 2007, Prague, Czech Republic, *organizing committee member*

EUROGRAPHICS Minisymposium 2007, Prague, Czech Republic, *organizer, chairman*

SIGGRAPH 2006 *Student Volunteer*, Boston, MA, USA

#### AWARDS AND HONORS

2011: Best Paper Award, International Symposium on Non-Photorealistic Animation and Rendering (NPAR), Vancouver, Canada

2008: Trans it! - the best applicable inventions at CTU, Prague, Czech Republic

2008: Outstanding dissertation, CTU in Prague, Czech Republic

Recipient of the following *research grants*: 2016: Visual Geo-localization and Pose Estimation in Mountainous Terrains (project OPEN-7-49, National Supercomputing Center IT4Innovations, Czech Republic); 2014: Incoming Grant on Visual Localization in Natural Environments (So-MoPro II co-financed by Marie Curie Actions, REA 291782); 2012: COST STSM (ECOST-STSM-IC1005-100312-015783), Image distortion maps for evaluation of quality metrics, Bangor, UK; 2006–2010: Grant No. LC06008, Center for Computer Graphics; 2007–2008: Aktion Kontakt OE/CZ grant No. 48p11, Realistic Real-Time Rendering of Trees and Vegetation; 2005–2006: Erasmus scholarship of the European Union, HTW Dresden, Germany; 2007: Grant No. CTU0715413, Organization of the EG 2007; 2004: Grant No. CTU0408813, Automatic Comparison of Images

#### TEACHING EXPERIENCE

2013–now: Courses at the Department of Computer Graphics and Multimedia, BUT Brno, Czech Republic: Computer Vision, Advanced Computer Graphics, Computer Art, Computational Photography

2014: HDR Image and Video Quality Assessment, COST Training School, BUT Brno, Czech Republic

2012: Introduction to HDR and HDR Quality Assessment, COST Training School, Irisa/Inria Rennes, France

2009–2013: Realistic Image Synthesis, University of Saarland, Saarbrücken, Germany

2005–2008: Supervisor of master's theses and semestral projects on computer graphics, CTU in Prague, Czech Republic

2004–2006: Lectures at FAMU, Academy of Performing Arts in Prague, and Academy of Arts, Architecture and Design in Prague, Czech Republic: Visual Perception

2002–2004: Municipal Library of Prague, Czech Republic; position: lecturer (ECDL and computer graphics courses)

2002–2008: Courses at the Department of Computer Science and Engineering, CTU in Prague, Czech Republic: Multimedia II, Design and Implementation of User Interfaces, Computer Graphics Algorithms, High Dynamic Range Imaging, Computer Graphics Applications, Operating Sys-

tem UNIX

WORKING  
EXPERIENCE

2015–now: Department of Computer Graphics and Multimedia, BUT Brno, Czech Republic;  
position: associate professor, researcher

2013–2015: Department of Computer Graphics and Multimedia, BUT Brno, Czech Republic;  
position: assistant professor, researcher

2009–2013: Max-Planck-Institut für Informatik, Saarbrücken; position: post-doc, researcher

2007–2009: Computer Graphics Group, Faculty of Electrical Engineering, Czech Technical University in Prague; position: researcher

2002–2008: Web programming and webdesign; position: developer (html, css, php, java, javascript)

2001: HiSoftware; position: developer (Java web applets development)

1999–2001: Hewlett-Packard education centre, NextSoft; position: developer (MFC, C, C++, stand alone and web applications), UNIX and MS-Windows system administrator

SELECTED  
PUBLICATIONS

Čadík, M., Vašíček, J., Hradiš, M., Radenović, F., Chum, O.: Camera Elevation Estimation from a Single Mountain Landscape Photograph, BMVC, 2015 (Swansea, UK).

Fišer, J., Lukáč, M., Jamriška, O., Čadík, M., Gingold, Y., Asente, P., Sýkora, D.: Color Me Noisy: Example-based Rendering of Hand-colored Animations with Temporal Noise Control, Computer Graphics Forum, Vol. 33, Num. 4 (proc. of EGSR'14), 2014 (Lyon, France).

Sýkora, D., Kavan, L., Čadík, M., Jamriška, O., Jacobson, A., Whited, B., Simmons, M., Sorkine-Hornung, O.: Ink-and-Ray: Bas-Relief Meshes for Adding Global Illumination Effects to Hand-Drawn Characters, ACM Transactions on Graphics, vol. 33, no. 2, ACM, 2014 (SIGGRAPH 2014, Vancouver, Canada).

Čadík, M., Herzog, R., Mantiuk, R., Mantiuk, R., Myszkowski, K., Seidel, H.P.: Learning to Predict Localized Distortions in Rendered Images, Computer Graphics Forum Vol. 32, Num. 7 (proc. of Pacific Graphics'13), pp. 401-410, 2013.

Čadík, M., Herzog, R., Mantiuk, R., Myszkowski, K., Seidel, H.P.: New Measurements Reveal Weaknesses of Image Quality Metrics in Evaluating Graphics Artifacts, ACM Transactions on Graphics (SIGGRAPH Asia 2012), Singapore, 2012.

Herzog, R., Čadík, M., Aydin, T. O., Kwang I. K., Myszkowski, K., Seidel, H.P.: NoRM: No-Reference Image Quality Metric for Realistic Image Synthesis, Computer Graphics Forum, vol. 31, (Proceedings of Eurographics'12), Cagliari, Italy, 2012.

Sýkora, D., Ben-Chen, M., Čadík, M., Whited, B., Simmons, M.: TexToons: Practical Texture Mapping for Hand-drawn Cartoon Animations, In Proceedings of the 9th International Symposium on Non-Photorealistic Animation and Rendering (NPAR'11), Vancouver, Canada, 2011. (Best Paper Award).

Baboud, L., Čadík, M., Eisemann, E., Seidel, H.P.: Automatic Photo-to-Terrain Alignment for the Annotation of Mountain Pictures, In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2011) (oral), 2011.

Aydin, T.O., Čadík, M., Myszkowski, K., Seidel, H.P.: Video Quality Assessment for Computer Graphics Applications, ACM Transactions on Graphics (SIGGRAPH Asia 2010), vol. 29, no. 5, ACM, 2010.

Aydin, T.O., Čadík, M., Myszkowski, K., Seidel, H.P.: Visually Significant Edges, ACM Transactions on Applied Perception, Vol. 7, No. 4, Article 27, (Symposium on Applied Perception in Graphics and Visualization (APGV)), 2010.

Čadík, M.: Perceptual Evaluation of Color-to-Grayscale Image Conversions, Computer Graphics Forum (Proceedings of Pacific Graphics'08), Vol. 27, Number 7, 2008.

Čadík, M., Wimmer, M., Neumann, L., Artusi, A.: Evaluation of HDR Tone Mapping Methods Using Essential Perceptual Attributes, Computers & Graphics, Elsevier, p. 330-352, 2008.

Complete listing of publications at: <http://cadik.posvete.cz/>

HOBBIES AND  
OTHER SKILLS

computer graphics, computational aesthetics, photography, astrophotography  
sports (canoeing, mountaineering, skiing, swimming), organization and guiding of expeditions  
deserved donor of blood

LANGUAGE  
KNOWLEDGE

English: fluent, French: basics, Russian: basics, German: basics, Spanish: basics, Czech: mother  
tongue