Curriculum Vitae, Giannis Chantas

General Information	First name: Giannis Surname: Chantas Address: El. Venizeloy, Stayroypoli, Thessaloniki, 56430 Country: Greece Mobile phone: +306937314169 e-mail: chantas@iti.gr , chantas@gmail.com, Place of Birth: Thessaloniki, Greece Date of Birth: 25/4/1978 Nationality: Greek Military service : completed Information Technologies Institute, CERTH, Thessaloniki
Education	Ph.D. degree in Computer Science, obtained in 2/2009 from the Department of Computer Science, University of Ioannina, Dissertation Title: "Bayesian Restoration and Reconstruction of High-Resolution Images from Low-Resolution Data of Unknown Degradation". PhD studies started in November of 2004 and thesis defense was in December of 2008. PhD degree was rated as "Excellent". Advisor: Nikolaos P. Galatsanos. MS. Degree in Computer Science obtained in October of 2004, from the Computer Science Department of the University of Ioannina, (rating: 8.30 in the scale of 1 to 10). Bachelor degree in Computer Science in July of 2002, from the Computer Science Department of the University of Ioannina.
Research Activity	Participation in the i-Treasures research project of CERTH as a postdoctoral research fellow at the facilities of Information Technologies Institute of CERTH, Thessaloniki: 1/5/2013 - present. Participation in the 3DTV research project as a postdoctoral research fellow at the facilities of AUTH, Thessaloniki: 1/11/2011 – 30/11/2012. Participation in the research project of the University of Ioannina with title: "Reconstruction of Images and Video of High-Resolution from Low-Resolution Data" , 5/12/2005-5/12/2008, with scientist in charge Nikolaos P. Galatsanos. Participation in the project of the University of Ioannina with title : "Reformation of Curricula of the University of Ioannina" 1/6/2004-31/5/2005. Held the position of multimedia programmer and web developer. Participation in the research project of the University of Ioannina with title: "Reconstruction with Super-Resolution for Images and Video" , 1/9/2005-30/11/2005, with scientist in

	charge Nikolaos P. Galatsanos.
Educational Experience	Exterior collaborator of the Department of Informatics and Telecommunications of the Technological and Educational Institute of Larisa, since October 2009 till July 2012. Lessons taught: Multimedia (focus on compression), Programming in C, Data Structures and Algorithms. Educator in secondary education in 2003-2004.
Publications **Journals** **Conferences**	1. G. Chantas, N. P. Galatsanos, R. Molina and A.Katsaggelos, “Image Restoration with a Spatially Adaptive Total Variation Image prior” , IEEE Transactions on Image Processing, Vol. 19, no. 2, pp. 351 - 362, February 2010. 2. G. Chantas, N. P. Galatsanos, A. Likas, and M. Saunders, "Variational Bayesian Image Restoration Based on a Product of t-Distributions Image Prior", IEEE Transactions on Image Processing, vol. 17, no. 10, pp. 1795-1805, October 2008. 3. G. Chantas, N. P. Galatsanos, and N. Woods, "Super Resolution Based on Fast Registration and Maximum A Posteriori Reconstruction", IEEE Transactions on Image Processing, Vol. 16, No. 7, pp. 1821-1830, July 2007. 4. G. Chantas, N. P. Galatsanos, A. Likas, “Bayesian Restoration Using a New Nonstationary Edge-Preserving Image Prior”, IEEE Transactions on Image Processing, Volume 15, No. 10, pages: 2987-2997, October 2006. 5. G. Chantas, T. Gkamas, and C. Nikou. "Variational-Bayes optical flow," Journal of Mathematical Imaging and Vision 50.3 (2014): 199-213. 1. G. Chantas, S. Nikolopoulos, I. Kompatsiaris, (2014, January). Multi-entity Bayesian networks for treasuring the Intangible Cultural Heritage. In Computer Vision Theory and Applications (VISAPP), 2014 International Conference on (Vol. 2, pp. 796-802). IEEE. 2. G. Chantas, A. Kitsikidis, S. Nikolopoulos, K. Dimitropoulos, S. Douka, I. Kompatsiaris and N. Grammalidi, (2014, September). Multi-entity bayesian networks for knowledge-driven analysis of ICH content. In European Conference on Computer Vision (pp. 355-369). Springer International Publishing. 3. S. Karavarsamis, D. Ververidis, , G. Chantas, S. Nikolopoulos and Y. Kompatsiaris (2016, June). Classifying Salsa dance steps from skeletal poses. In Content-Based Multimedia Indexing (CBMI), 2016 14th International Workshop on (pp. 1-6). IEEE. 4. G. Chantas, “Variational Bayesian Image Super-Resolution

	with GPU Accleretaion", ICANN 2010, Thessaloniki, Greece, September 2010. 5. G. Chantas, N. P. Galatsanos, R. Molina and A.Katsaggelos, "Variational Bayesian Inference Image Restoration using a Product of Total Variation-Like Image Priors ", CIP 2010, Italy, September 2010. 6. G. Chantas, N. P. Galatsanos, and A. Likas, "Bayesian Image Restoration Based on Variational Inference and a Product of Student-t Priors", IEEE MLSP Workshop, Thessaloniki, Greece, August 2007. 7. A. Mairgiotis, G. Chantas, N. Galatsanos, K. Blekas, and Yongyi Yang, "New Detectors for Watermarks with Unknown Power Based on Student-t Image Priors," in Proc. IEEE 9th Workshop on Multimedia Signal Processing, 2007, MMSP 2007, pp.353-356, October 2007. 8. G. Chantas, N. P. Galatsanos, and N. Woods, "Maximum a Posteriori Super Resolution based on Simultaneous Non-Stationary Restoration, Interpolation and Fast Registration", Proceedings of the European Signal Processing Conference, Florence, September 2006. 9. Chantas, G., Galatsanos, N., Likas, A., "Maximum a Posteriori Image Restoration Based on a New Directional Continuous Edge Image Prior", Proceedings of the IEEE International Conference on Image Processing, vol. I, pp. 941-944, September 2005. 10. Chantas, G., Galatsanos, N., Likas, A., "Non Stationary Bayesian Image Restoration", Proceedings of the IEEE International Conference on Pattern Recognition, vol. 4, pp. 689-692, August 2004.
Research Interests	Machine learning with focus on Bayesian inference methods, probabilistic knowledge modeling and semantic analysis with applications to the cultural domain , Bayesian modeling, Bayesian inference applied to image processing (restoration, super-resolution, denoising, blind-deconvolution),.
Languages	Greek (native speaker), English (Michigan Certificate of Proficiency in English)
Technical Skills	Excellent knowledge of C, Matlab, C for CUDA (good knowledge of parallel programming in GPU's). Experience in Microsoft Visual C++, OpenGL, Java, Prolog. Operating Systems: SUSE/Ubuntu Linux, Microsoft Windows, Sun Solaris .
Recommendations	Available when asked