

Johannes Jordan

CONTACT INFORMATION	Pattern Recognition Lab University of Erlangen-Nuremberg Martensstr. 3 91058 Erlangen Germany	<i>Voice:</i> +49 (9131) 85-27891 <i>Fax:</i> +49 (9131) 303811 <i>E-mail:</i> johannes.jordan@cs.fau.de <i>URL:</i> www5.cs.fau.de/~jordan
EDUCATION	Doctoral Candidate, 2009 – Pattern Recognition Lab, Friedrich-Alexander-University Erlangen-Nuremberg Diplom in Computer Science, High Distinction, 2002 – 2009 Friedrich-Alexander-University Erlangen-Nuremberg Visiting Student, 2008 State University of New York at Stony Brook Abitur, 2002 Gymnasium Fraenkische Schweiz, Ebermannstadt	
WORK EXPERIENCE	 Programmer 2007 Google Summer Of Code Research Assistant 2005 – 2006 CS6: Data Management	
RESEARCH INTERESTS	My current research lies in Computer Vision. My special interests are Multispectral Scene Analysis Illumination and Reflectance Analysis Image Forensics	
PUBLICATIONS	J. Jordan, E. Angelopoulou. “Mean-shift Clustering for Interactive Multispectral Image Analysis”, <i>IEEE International Conference on Image Processing</i> , September 2013, to appear J. Jordan, E. Angelopoulou. “Hyperspectral Image Visualization With a 3-D Self-organizing Map”, <i>IEEE 5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing</i> , June 2013, to appear A. Maier, Z. Jiang, J. Jordan, C. Riess, H. Hofmann, J. Hornegger. “Atlas-based linear volume-of-interest (ABL-VOI) image correction”, <i>SPIE Medical Imaging 2013 (Medical Imaging 2013: Physics of Medical Imaging)</i> , February 2013, vol. 8668, pp. 8668-83 V. Christlein, C. Riess, J. Jordan, C. Riess, E. Angelopoulou. “An Evaluation of Popular Copy-Move Forgery Detection Approaches”, <i>IEEE Transactions on Information Forensics and Security</i> , vol. 7, no. 6, pp. 1841-1854, 2012	

- J. Jordan, E. Angelopoulou. “Supervised Multispectral Image Segmentation with Power Watersheds”, *IEEE International Conference on Image Processing*, September 2012, pp. 1585-1588.
- J. Jordan, E. Angelopoulou. “Edge Detection in Multispectral Images Using the n-dimensional Self-Organizing Map”, *IEEE International Conference on Image Processing*, September 2011, pp. 3181-3184.
- J. Jordan, E. Angelopoulou. “Gerbil - A Novel Software Framework for Visualization and Analysis in the Multispectral Domain”, *VMV 2010: Vision, Modeling and Visualization*, November 2010, pp. 259-266.
- C. Riess, J. Jordan, E. Angelopoulou. “A Common Framework for Ambient Illumination in the Dichromatic Reflectance Model”, *IEEE Color and Reflectance in Imaging and Computer Vision Workshop*, October 2009, pp. 1939-1946.
- J. Jordan, S. Helwig, R. Wanka. “Social Interaction in Particle Swarm Optimization, the Ranked FIPS, and Adaptive Multi-Swarms”, *10th annual conference on Genetic and Evolutionary Computation (GECCO)*, July 2008, pp. 49-56.

AWARDS AND HONOURS	2008: Awarded DAAD scholarship to study abroad 2006: Participant at South Western European Regional Programming Contest (SWERC) of the ACM International Collegiate Programming Contest (ICPC) after local qualification 2005: Participant at SWERC of the ACM ICPC after local qualification
RESEARCH PROJECTS	An Eye Model as a Means for Integration of Human Vision Cues in Object Classification , 2009 Diploma thesis (equiv. MSc Thesis), Computer Vision, Prof. Elli Angelopoulou, Prof. Dimitris Samaras Friedrich-Alexander-University Erlangen-Nuremberg, State University of New York at Stony Brook
	Dynamische Nachbarschaftsgraphen in der Partikelschwarmoptimierung (Dynamic Neighborhood Topologies in Particle Swarm Optimization), 2007 Student thesis (equiv. BSc Thesis), Efficient Combinatorial Algorithms, Prof. Dr. Rolf Wanka Friedrich-Alexander-University Erlangen-Nuremberg
TALKS	“This looks shopped! An Introduction to Image Forensics”, at Friedrich-Alexander-University (ACM ICPC NWERC Dinner Speech), 2009
TEACHING EXPERIENCE	2009-2013: Wavelet Transform in Image Processing , Recitation Sessions 2012: Computer Vision , Recitation Sessions 2011, 2005-2006: Computer Science for Engineers , Recitation Sessions

- 2009:** New Methods in Image Forensics, Seminar
- 2004-2005:** Software Systems, Recitation Sessions
- 2004:** Functional and Logic Programming, Recitation Sessions

THESES SUPERVISION	Daniel Danner, "Unsupervised Segmentation of Multispectral and Hyperspectral Image Data", Friedrich-Alexander-University Erlangen-Nuremberg, 2011. Ralph Müssig, "Variants of Self-Organizing Maps for Edge Detection", Friedrich-Alexander-University Erlangen-Nuremberg, 2011. David Föhrweiser, "Empirical Analysis of Semi-automatic 2D/3D Image Segmentation Approaches", Friedrich-Alexander-University Erlangen-Nuremberg, 2011. Felix Lugauer, "Self-Organizing Maps for Edge Detection in Multispectral Images", Friedrich-Alexander-University Erlangen-Nuremberg, 2010. Vincent Christlein, "A Common Framework for Copy-Move Forgery Detection", Friedrich-Alexander-University Erlangen-Nuremberg, 2009.
SERVICES	2012-2013: Member of faculty council, CS department steering committee 2007-2010: Problem setter for local ACM ICPC competition 2007-2008: Member of the Curriculum Committee (Studienkommission) 2006-2008: Member of the Committee for Student Funds Appropriation 2006-2007: Member of student parliament (Studentischer Konvent) 2006-2007: Member of faculty council 2005-2007: Elected student representative
FREE SOFTWARE	since 2010: Gerbil multispectral visualization and analysis framework. 2012: Mentoring organization (Gerbil project) in ESA Summer of Code in Space 2004, 2005: Open-source software projects xmms-rootvis and Pong ² . Both were included into several major GNU/Linux distributions.
MEMBERSHIPS	IEEE Signal Processing Society (IEEE SPS) Computer Science Students' Organization of the Friedrich-Alexander-University Erlangen-Nuremberg (FSI) FAU FabLab, founding member
LANGUAGE SKILLS	German: native English: fluently French: basic knowledge