C.V.

Alexander Sorokin

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Active projects

Visual annotation: **http://vision.cs.uiuc.edu/annotation**
OpenGL 3D in web browser: **http://www.tinyurl.com/cqo8nr**

Publications

- Alexander Sorokin, David Forsyth, Utility data annotation with Amazon Mechanical Turk, In the First IEEE Workshop on Internet Vision at CVPR 2008.
- Du Tran, Alexander Sorokin, Human Activity Recognition with Metric Learning, ECCV 2008
- Yuri Ivanov, Christopher Wren, Alexander Sorokin, Ishwinder. Kaur, Visualizing the History of Living Spaces, InfoVis 2007. **Best paper award.**
- Christopher Wren, Yuri Ivanov, Ishwinder Kaur, Alexander Sorokin, "SocialMotion: Measuring the Hidden Social Life of a Building", LoCA 2007
- Yuri Ivanov, Alexander Sorokin, Christopher Wren, Ishwinder Kaur. "Tracking People in Mixed Modality Systems" VCIP 2007.
- Nicolas Loeff, Himanshu Arora, Alexander Sorokin, David Forsyth, Efficient Unsupervised Learning for Localization and Detection in Object Categories. NIPS 2005.
- Techical report FRONTON-1, Bauman State Technical University, Moscow. 2004.

Research experience

Summer 2005-now	Research assistant with Prof. David A. Forsyth, Department of Computer Science, University of Illinois at Urbana-Champaign. **Research topic**: Data annotation, Human pose estimation, Object category recognition.
Summer 2006	Intern at Mistubishi Electric Research Lab, Boston,MA. Supervisor - Yuri Ivanov. **Research topic:** Visualization of social office activity.
2003-2004	Implementation of numerical methods for object detection. Bauman State Technical University, Moscow.
2001-2003	Development of data mining algorithms and systems.

Teaching experience

Spring 2009	25% Teaching assistant, CS543: Computer Vision by Prof. David Forsyth. **Duties:** Lecture design, homework grading and project supervision
Spring 2006	30% Teaching assistant, CS523: Advanced Operating Systems by Prof. Roy Campbell. **Duties:** Course project supervision.
Spring 2005	Teaching assistant, CS423: Operating Systems Design by Prof. Roy Campbell. **Duties**: Homework assignments (preparation and grading); Exam papers (preparation and grading), Q&A discussion sections; Giving one of the lectures; Lecture recording; All communication with online (off-campus) students.
Fall 2004	Teaching assistant, CS523: Advanced Operating Systems by Prof. Roy Campbell. **Duties:** Homework assignments (research paper selection and review grading). Exam papers (preparation and grading).
2001	Participated in development of a course on Microsoft web technologies. **Duties:** Research in .NET platform, preparation of lectures on ASP.NET and ADO.NET (6 lectures).

Education

2004-now	PhD student, Department of Computer Science, University of Illinois at Urbana-Champaign (GPA 4.0)
1998-2003	Student, Dept of Computational Mathematics and Cybernetics, Lomonosov Moscow State University (GPA 4.88 of 5.0)
2000-2003	Student, Software Engineering Laboratory, Moscow State University
1993-1998	Student, School of Young Businessmen, Moscow
1995	Short course in Economics and Marketing, Norwegian School of Management, Norwegian School of Marketing, Bærum, Norway.

Development experience

2008	Visual annotation toolkit for Amazon Mechanical Turk **Technologies :** Flash, JS, Python, Django, JS
Summer 2007	Co-founder of startup Snap And Buy, Inc. The company delivers product information to shopper's cell phones.
2002-2004	Development team leader/Software developer, Cinimex Informatica. Development of banking software on IBM AS/400 (and Equation) for Alfabank. **Technologies :** AS/400, RPG 3, ILE RPG, ILE C, CL, etc., XML
2001-2002	Worked in Alive Algorithms (Moscow). I performed business process automation tasks. My responsibilities were business requirements analysis and software development. **Technologies:** 1C Enterprise, Visual C++, Microsoft SQL Server.
2002-2003	Developed a data mining provider for OLAP data model. **Technologies:** OLAP, Fuzzy logic algorithms, Visual C++, OLE DB, OLE DB for OLAP.
2001-2002	Developed a data mining provider compliant with Microsoft OLE DB for Data Mining specification. **Technologies:** Fuzzy logic algorithms, Visual C++, OLE DB, OLE DB for Data Mining.
2000-2001	Various projects in Software Engineering Laboratories, Computational Mathematics and Cybernetics department of Lomonosov Moscow State University.
	We developed a cross-platform integrated development environment for embedded microprocessor. I developed IDE, source editor with syntax highlighting, target processor emulation(approx 30%), interactive debugger. **Technologies:** Microsoft Visual C++, MFC 6.0, gnu tools (make, asm, etc.)
	Bluegill project: Translation of a class library from C++ into Java. **Technologies:** Java, IBM Visual Age for Java
2001	Java-based distributed image processing system **Technologies:** Java, JSP, Tomcat, Servlets
	Content-filtering robot for information retrieval from online data sources **Technologies:** Perl
1997	Business process automation system (sales tracking, accounting). **Technologies:** Microsoft Visual Basic 3.0

Graduate coursework

Fall08	**MIP595** Seminar in physiology
Fall07	**CS598** Special topics in CS - Optimization in computer vision and ML(**A)**
Spring07	**CS498** Special topics in CS - Programming Massively Parallel Microprocessors(**A)**
Spring06	**CS598** Special topics in CS - Applications of Computer Vision (**A)**
Spring06	**CS548** Computation models of cognitive processes **(A+)**
Fall05	**CS598** Special topics in CS – Machine learning in NLP (**A)**
Fall05	**CS598** Special topics in CS - Algorithms in Geometry and Topology(**A)**
Summer05	**CS597** Individual Study with Prof David A. Forsyth (Object category recognition)
Spring 05	**CS446** Machine Learning and Pattern Recognition **(A)**
Spring 05	**CS598** Reasoning Under Uncertainty **(A+)**
Spring 05	**CS597** Individual Study with Prof David A. Forsyth (Methods and datasets for evaluation of algorithms for object category recognition) **(A)**
Fall 04	**CS422** Programming Languages Design **(A+)**
Fall 04	**CS473** Algorithms **(A+)**
Fall 04	**CS543** Computer Vision **(A+)**
Fall 04	**ESL500** Oral and Written Communication **(A+)**