Curriculum Vitae

Last updated 01.27.2017

IOANNIS STAMOS

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RESEARCH INTERESTS

Computer Vision & Graphics; Robotics; Three-Dimensional Modeling; Sensor Fusion; Range Segmentation & Registration; Detection & Classification Algorithms; Sensor Planning; Three-Dimensional Visualization.

EDUCATION

May 2001	PH.D., Columbia University, Computer Science Department (Advisor: Peter K. Allen).
May 2000	M.PHIL., Columbia University, Computer Science Department.
Feb. 1997	M.S., Columbia University, Computer Science Department.
Nov. 1994	Diploma of Engineering, University of Patras, Department of Computer Engineering and Informatics, Patras, Greece (Thesis Advisor: George Moustakides).

EXPERIENCE

09/2011 - Present	Professor, Hunter College of the City University of New York, Computer Science Department, New York, NY.
11/2013 - 06/2014	Visiting Faculty, Google Inc., Mountain View, CA.
01/2006 - 08/2011	Associate Professor, Hunter College of the City University of New York, Computer Science Department, New York, NY.
09/2001 - 12/2005	Assistant Professor, Hunter College of the City University of New York, Computer Science Department, New York, NY.
09/2001 - Present	Member of the Doctoral Faculty, Graduate Center of the City University of New York, Department of Computer Science, New York, NY.
09/2002 - 05/2003	Deputy Executive Officer, Graduate Center of the City University of New York, PhD Program of Computer Science, New York, NY.
09/1995 - 05/2001	Graduate Research Assistant, Columbia University, Computer Science Department, Robotics Lab, New York, NY.
06/2000 - 08/2000	Summer Intern, Siemens Corporate Research, Princeton, NJ.
11/1994 - 06/1995	Research Scientist, Catholic University of Leuven (Leuven, Belgium) and Computer Technology Institute (Patras, Greece).

HONORS AND AWARDS

2015	Google Research Award.
2010	NSF-sponsored research highlighted at the annual report of the Research Foundation, City University of New York (across all campuses).
2007	Google Research Award.
2003	NSF Faculty Early Career Development Award (CAREER).
2003	Feliks Gross Endowment Award, CUNY Academy for the Humanities and Sciences.
2000	Outstanding Teaching Assistant Award, School of Engineering and Applied Sciences, Columbia University, New York, NY.
1995-2001	Graduate Research Assistant: Full Scholarship, Robotics Laboratory, Computer Science Department, Columbia University, New York, NY.
1995-2000	Scholarship for graduate studies, Institution of Ioannis S. Latsis, Greece.
1994	Graduated ranking first, class of November 1994, Engineering School, University of Patras, Greece.
1989-1991	Scholarship for undergraduate studies, Institution of Scholarships of the Greek State.
1989-1994	Scholarship for undergraduate studies, Institution of Ioannis S. Latsis, Greece.

EXTERNAL RESEARCH GRANTS

Total funding (2003-): $1,700,000+. Total funding excluding portion of co-PIs: $1,400,000+.

2016-2019	*MRI: Acquisition of mobile robots to support indoor navigation and online 3D object detection*, I. Stamos (**PI**), S. Epsten , O. Hadjiliadis (**Co-PIs**), National Science Foundation, CNS $100,450 ($43,050 Hunter's co-share).
2015-2016	*Classification of vehicles in points clouds of urban scenes*, I. Stamos (**PI**), O. Hadjiliadis (**Co-PI**), Google Research Award, $44,500.
2009-2013	*RI: Small: Modeling Cities by Integrating 3D and 2D Data*, I. Stamos (**PI**), National Science Foundation, Robust Intelligence of Information & Intelligent Systems (IIS-0915971), $474,963.
2009-2013	*MSC: Sequential Classification and Detection via Markov Models in Point Clouds of Urban Scenes*, I. Stamos (**PI**), O. Hadjiliadis (Co-PI), National Science Foundation, Computing and Communication Foundations (CCF-0916452), $379,998 + $24,000 (REU supplements).
2008-2011	*MRI: Acquisition of Range-Scanning and Rapid Prototyping Equipment for 3D Urban Modeling*, I. Stamos (**PI**), National Science Foundation, Major Research Instrumentation (MRI), Computer and Network Systems (CNS-0821384), $99,500 (NSF) + $42,856 (Hunter's co-share) + $12,000 (REU Supplement).

2007-2008 *Urban Modeling Project*, G. Wolberg (PI), I. Stamos (**Co-PI**),
Google Inc. Gift, $50,000.

2003-2009 *CAREER: Photorealistic 3-D Modeling of Large-Scale Scenes: Integration of 3-D Range and 2-D Intensity Sensing in a Complete System*,
I. Stamos (**PI**),
National Science Foundation Faculty Early Career Development Award (CAREER),
Information & Intelligent Systems (IIS-0237878), $404,247 + $22,800 (REU Supplements).

2002-2004 *MRI/RUI: Acquisition of Range-Scanning Equipment and of Data Servers for the Reconstruction of Large-Scale Scenes from 3D Range and 2D Color Data*,
I. Stamos (**PI**), C. Ehlschlaeger (Co-PI),
National Science Foundation, Major Research Instrumentation (MRI)
(EIA-0215962), $159,307.

INTERNAL RESEARCH GRANTS

2016-2017 *Alignment and object classification in 3D point clouds"*, I. Stamos (**PI**),
PSC-CUNY Research Award Program, $6,000.

2014-2015 *Gradual Change detection for object classification in 3D Computer Vision*, I. Stamos (**co-PI**),
(O. Hadjiliadis PI), CUNY Collaborative, $30,000.

2014-2015 *3D Shape Completion, Recognition and Modeling from Registered 3D and 2D Datasets*, I. Stamos (**PI**),
CUNY Central and Hunter, $50,000.

2014-2015 *Automated Classification of Urban Objects for Accurate 3D reconstruction"*, I. Stamos (**PI**),
PSC-CUNY Research Award Program, $6,000.

2014-2015 Presidential Grant for Faculty Advancement (Hunter College)
$1,500

2008-2009 *3D Modeling in Urban Environments*, I. Stamos (**PI**),
PSC-CUNY Research Award Program, $4,000.

2008-2009 Presidential Travel Grant, Hunter College, $650 + $1,700.

2006-2007 *Visualization Toolkit for 3D Photography*, G. Wolberg (PI), I. Stamos (**Co-PI**),
CUNY Collaborative Award, $40,000.

2005-2006 *Automated Range-Image Registration Algorithms*,
PSC-CUNY Research Award Program, I. Stamos (**PI**), $3,600.

2002-2003 *Photorealistic 3-D Modeling*, I. Stamos (**PI**),
PSC-CUNY Research Award Program, $3,400.

2002-2003 *Automatic Registration of 3-D Point Sets*, I. Stamos (**PI**),
CUNY Institute for Software Design and Development, $12,000.

PUBLICATIONS

Available at
http://www.cs.hunter.cuny.edu/∼ioannis/publications.html
Total Citations: 1900+ (Google Scholar)
h-index: 21 (number of papers with h or more citations)
i10-index: 28 (number of papers with at least 10 citations)

Peer-Reviewed Publications

1. A. Zelener and **I. Stamos**, 2016, CNN-based Object Segmentation in Urban LIDAR With Missing Points, *2016 International Conference on 3D Vision (3DV 2016)*, October 25 - 28 2016, Stanford University, CA.

2. T. Flynn, O. Hadjiliadis and **I. Stamos**, 2015, Online classification in 3D urban datasets based on hierarchical detection, *2015 International Conference on 3D Vision (3DV 2015)*, Lyon, France.

3. A. Zelener, P. Mordohai and **I. Stamos**, 2014, Classification of Vehicle Parts in Unstructured 3D Point Clouds, *2014 International Conference on 3D Vision (3DV 2014)*, University of Tokyo, Tokyo, Japan.

4. M. Carlisle, O. Hadjiliadis and **I. Stamos**, 2014, Trends and trades, Handbook of high-frequency trading and modeling in finance. Editors: F. Viens, M. C. Mariani and I. Florescu, Publisher: John Wiley and Sons (accepted).

5. J. Liu, E. Psarakis and **I. Stamos**, 2013, Automatic Kronecker product model based detection of repeated patterns in 2D urban images, *International Conference on Computer Vision*, Sidney Australia (accepted for publication – 25% acceptance rate, 1600 submissions).

6. S. Friedman and **I. Stamos**, 2013, Automatic Procedural Modeling of Tree Structures in Point Clouds Using Wavelets , *2013 International Conference on 3D Vision (3DV 2013)*, University of Washington, Seattle.

7. S. Friedman and **I. Stamos**, 2013, Online Detection of Repeated Structures in Point Clouds of Urban Scenes for Compression and Registration, *International Journal of Computer Vision* (Special Issue: 3D Imaging, Processing and Modeling), Vol. 102, Issue 1-3, pp 112–128.

8. A. Mesolongitis and **I. Stamos**, 2012, Detection of Windows in Point Clouds of Urban Scenes, Point Cloud Processing in Computer Vision at *IEEE International Conference of Computer Vision and Pattern Recognition*, Providence RI, pp. 17-24,

9. **I. Stamos**, O. Hadjiliadis, H. Zhang and T. Flynn, 2012, Online algorithms for classification of urban objects in 3D point clouds, *The second 3DIMPVT (3D Imaging, Modeling, Procession, Visualization and Transmission) Conference*, ETH, Zürich, Oct. 13–15.

10. S. Friedman and **I. Stamos**, 2012, Online Facade Reconstruction from Dominant Frequencies in Structured Point Clouds, Point Cloud Processing in Computer Vision at *IEEE International Conference of Computer Vision and Pattern Recognition*, Providence RI, pp. 1–8.

11. L. Liu and **I. Stamos**, 2012, A systematic approach for 2D-image to 3D-range registration in urban environments, Computer Vision and Image Understanding, Special Issue on Virtual Representations and Modeling of Large-scale Environments (VRML), Vol. 116, No. 1, pp. 25-37.

12. S. Friedman and **I. Stamos**, 2011, Real Time Detection of Repeated Structures in Point Clouds of Urban Scenes, The First Joint 3DIM/3DPVT (3DIMPVT) Conference, Hangzhou, China, May 16-19.

13. O. Hadjiliadis and **I. Stamos**, 2010, Sequential Classification in Point Clouds of Urban Scenes, *Fifth International Symposium on 3D Data Processing, Visualization and Transmission*, Paris, France.

14. O. Hadjiliadis, G. Herandez-del-Valle and **I. Stamos**, 2009, A comparison of 2-CUSUM stopping rules for quickest detection of two-sided alternatives through the derivation of the mean of a general 2-CUSUM, *Journal of Sequential Analysis*, Vol. 28, No. 1, pp. 92-114.

15. **I. Stamos**, L. Liu, C. Chao, G. Wolberg, G. Yu and S. Zokai, 2008, Integrating Automated Range Registration with Multiview Geometry for the Photorealistic Modeling of Large-Scale Scenes, *International Journal of Computer Vision [Special Issue]*, Vol. 78, No. 2-3, pp. 237-260.

16. G. Yu, M. Grossberg, G. Wolberg and **I. Stamos**, 2008, Think Globally, Cluster Locally: A Unified Framework for Range Segmentation, *Fourth International Symposium on 3D Data Processing, Visualization and Transmission*.

17. L. Liu and **I. Stamos**, 2007, A systematic approach for 2D-image to 3D-range registration in urban environments, *Visual Representation and Modeling of Large-Scale Environments (VRML) Workshop, 11th International Conference on Computer Vision*, pp. 1-8.

18. C. Chen and **I. Stamos**, 2007, Range Image Segmentation for Modeling and Object Detection in Urban Scenes, *The 6th International Conference on 3-D Digital Imaging and Modeling*, pp. 185-192.

19. L. Liu, **I. Stamos**, G. Yu,G. Wolberg and S. Zokai, 2006, Multiview Geometry for Texture Mapping 2D Images Onto 3D Range Data, *IEEE International Conference of Computer Vision and Pattern Recognition*, Vol. II, pp. 2293–2300.

20. C. Chen and **I. Stamos**, 2006, Range Image Registration Based on Circular Features, *3rd International Symposium on 3D Data Processing, Visualization & Transmission*, pp. 543-550.

21. **I. Stamos**, G. Yu, G. Wolberg and S. Zokai, 2006, 3D Modeling Using Planar Segments And Mesh Elements, *3rd International Symposium on 3D Data Processing, Visualization & Transmission*, pp. 599-606.

22. C. Chen and **I. Stamos**, 2005, Semi-automatic range to range registration: a feature-based method, *The 5th International Conference on 3-D Digital Imaging and Modeling*, pp. 254-261.

23. L. Liu and **I. Stamos**, 2005, Automatic 3D to 2D Registration for the Photorealistic Rendering of Urban Scenes, *IEEE International Conference on Computer Vision and Pattern Recognition*, Vol. II, pp. 137-143.

24. **I. Stamos** and M. Leordeanu, 2004, Efficient Model Creation of Large Structures based on Range Segmentation, *2nd International Symposium on 3D Data Processing, Visualization & Transmission*, pp. 447-454.

25. P. K. Allen, **I. Stamos**, M. Leordeanu, A. Troccoli, B. Smith and S. Murray, 2003, New Methods for Digital Modeling of Historic Sites Using Range and Image Data, *IEEE Computer Graphics & Applications, Special Issue on 3D Reconstruction and Visualization of Large Scale Environments*, Vol. 23, No. 6, pp. 32-41.

26. **I. Stamos** and M. Leordeanu, 2003, Automated Feature-Based Range Registration of Urban Scenes of Large Scale, *IEEE International Conference of Computer Vision and Pattern Recognition*, Vol. II, pp. 555-561.

27. P. K. Allen, **I. Stamos**, A. Troccoli, B. Smith, M. Leordeanu and Y. C. Hsu, 2003, 3D Modeling of Historic Sites using Range and Image Data, *International Conference of Robotics and Automation*, pp. 145-150.

28. P. K. Allen, A. Troccoli, B. Smith, **I. Stamos**, and S. Murray, 2003, The Beauvais Cathedral Project, *Workshop on Applications of Computer Vision in Archeology, IEEE International Conference of Computer Vision and Pattern Recognition*, pp. 10-15.

29. **I. Stamos** and P. K. Allen, 2003, Automatic Geometric Registration of Dense Range Scans for 3D Site Modeling, *DIMACS Workshop on Surface Reconstruction* [Abstract].

30. **I. Stamos** and P. K. Allen, 2002, Geometry and Texture Recovery of Scenes of Large Scale, *Journal of Computer Vision and Image Understanding*, Vol. 88, No. 2, pp. 94-118.
31. **I. Stamos**, 2002, Photorealistic 3D Modeling of Architecturally Complex Environments, *International Conference on Imaging Science, Systems, and Technology*, pp. 92-98.
32. **I. Stamos** and P. K. Allen, 2001, Automatic Registration of 3-D with 2-D Imagery in Urban Environments, *International Conference on Computer Vision*, pp. 731-736.
33. P. K. Allen, **I. Stamos**, A. Georgiev, E. Gold and P. Blaer, 2001, AVENUE: Automated Site Modeling in Urban Environments, *Third International Conference on 3D Digital Imaging and Modeling*, pp. 357-364.
34. **I. Stamos** and P. K. Allen, 2000, 3-D Model Construction Using Range and Image Data, *IEEE International Conference on Computer Vision and Pattern Recognition*, Vol. I, pp. 531-536.
35. **I. Stamos** and P. K. Allen, 2000, Integration of Range and Image Sensing for Photorealistic 3D Modeling, *International Conference on Robotics and Automation*, pp. 1435-1440.
36. **I. Stamos** and P. K. Allen, 1998, Interactive Sensor Planning, *IEEE International Conference on Computer Vision and Pattern Recognition*, pp. 489-494.
37. P. K. Allen, M. K. Reed and **I. Stamos**, 1998, View Planning for Site Modeling, *DARPA Image Understanding Workshop*, pp. 1181-1192.
38. M. K. Reed, P. K. Allen and **I. Stamos**, 1997, Automated Model Acquisition using Volumes of Occlusion, *IEEE International Conference on Computer Vision and Pattern Recognition*, pp. 72-77.
39. M. K. Reed, P. K. Allen and **I. Stamos**, 1997, 3-D Modeling from Range Imagery: An Incremental Method with a Planning Component, *International Conference on Recent Advances in 3D Imaging and Modeling*, pp. 76-84.

Other Publications

32. **I. Stamos**, 2010, Automated Registration of 3D-range with 2D-color Images: An Overview, *44th Annual Conference on Information Sciences and Systems, 3D Data Acquisition and Analysis Session, Princeton University*, pp. 1-6 [Invited].
33. **I. Stamos**, 2009, Challenges in Automated 3D Modeling of Urban Environments, *3rd International Workshop (3D Arch 2009), [International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences]*, Vol. XXXVII-5/W1, pp. 1-5 [Invited].

Theses

34. **I. Stamos**, 2001, Geometry and Texture Recovery of Scenes of Large Scale: Integration of Range and Intensity Sensing, *PhD Thesis, Columbia University*.
35. **I. Stamos**, 1994, Motion Computation from a Sequence of Images, *Diploma Thesis, University of Patras*.

EXHIBITS AND DEMONSTRATIONS

3-D Model Construction Using Range and Image Data, *IEEE International Conference on Computer Vision and Pattern Recognition*, Hilton Head SC, June 2000.

POPULAR PRESS

Prof. Stamos is involved in the reconstruction of the 3D model of the endangered Cathedral of St. Piérre in Beauvais, France, in conjunction with the Robotics Laboratory and the Media Center for Art History, Archeology & Historic Preservation of Columbia University. This project was described in the article *Cybersleuths Take On the Mystery of the Collapsing Colossus* that appeared in the New York Times (October 27 2001).

INVITED TALKS

2016 CNN-based Object Segmentation in Urban LIDAR With Missing,
Google Inc. (Streetview), Mountain View, CA.

2016 Parsing 3D urban scenes,
Graduate Center of CUNY, NY.

2014 Reconstruction, online classification and repetition detection from range data in urban scenes,
Google Inc., Mountain View, CA.

2014 Reconstruction, online classification and repetition detection from range data in urban scenes,
Nvidia Corporation, Santa Clara, CA (March 14).

2013 Reconstruction, online classification and repetition detection from range data in urban scenes,
University of California Santa Barbara (UCSB), Computer Science Colloquium (October 16).

2012 Registration, detection and classification of urban structures in 3D point clouds,
Keynote presentation at the 3D GeoInfo Conference, Québec City (May 16-17).

2012 Detection and classification in point clouds of urban scenes,
Talk for visiting students from the National Technical University of Athens Greece,
Graduate Center of CUNY (April 25).

2012 Detection and classification in point clouds of urban scenes,
Seminar organized by Prof. R. Haralick (Graduate Center of CUNY) (April 18).

2011 Sequential detection and classification in point clouds of urban scenes ,
Google (host Dr. Vincent Luc), Mountain View, CA (June 13).

2010 Reconstruction and online classification from range data in urban scenes,
Computer Science Department Seminar,
Stevens Institute of Technology, Hoboken, NJ (September 27).

2010 Automated registration of 3D-range with 2D-color images: an overview,
44th Annual Conference on Information Sciences and Systems
(3D Data Acquisition and Analysis Session), Princeton University (March 19).

2010 Automated 3D modeling of urban environments,
Computer Science Colloquium, the Graduate Center of CUNY (February 11).

2009 Challenges in automated 3D modeling of urban environments,
Keynote presentation at the 3D Virtual Reconstruction and Visualization
of Complex Architectures conference, Trento, Italy (25-28 February).

2006 3D Photography: Reconstructing Photorealistic 3D Models of Large-Scale Scenes,
Carnegie Mellon University, Robotics Institute, VASC Seminar Series (April 17).

2005 Photorealistic 3D Modeling of Large-Scale Scenes,
Rutgers University, Computational Biomedicine Imaging and Modeling Center,
Department of Computer Science, New Brunswick, NJ (April).

2005 Photorealistic 3D Modeling of Large-Scale Scenes,
New York University, Media Research Laboratory,
Department of Computer Science, New York, NY (March 28).

2005 Photorealistic 3D Modeling of Large-Scale Scenes,
University of Pennsylvania, GRASP Seminar Series, Philadelphia, PA (March).

2005 Geometry and Texture Recovery of Scenes of Large Scale,
IBM T. J. Watson Research Center, Hawthorne, NY (February).

2003 Automatic Geometric Registration of Dense Range Scans for 3D Site Modeling,
Polytechnic University, Brooklyn NY (November 7).

2003 Automatic Geometric Registration of Dense Range Scans for 3D Site Modeling,
Lehman College of CUNY, Bronx NY (December 10).

2002 Geometry and Texture Recovery of Scenes of Large Scale,
New York Academy of Sciences, Computer and Information Sciences Colloquium,
Computer Visualization Applications, New York, NY (February 27).

2002 Reconstruction of Photorealistic 3D Models in Urban Environments,
CUNY WIRED! A New Media CUNY Conference, New York, NY (March 15).

2002 Geometry and Texture Recovery of Scenes of Large Scale,
in Graduate Course Graphical Models II, Prof. R. Haralick (Fall).

SYNERGISTIC ACTIVITIES

- National Science Foundation. Panelist and Reviewer: CISE/EIA Research Resources, RHAVIS, RCV-CAREER, RCV, CISE/CRI, IIS RI, RI CRII, NRI (2002 through 2015).
- Guest Editor, 2015 CVIU Special Issue on Large-Scale 3D Modeling of Urban Indoor or Outdoor Scenes from Images and Range Scans.
- Associate Editor, (2016 -), Journal of Computer Vision and Image Understanding (CVIU).
- Program co-Chair, 2013 International Conference on 3D Vision (3DV 2013), University of Washington, Seattle, June 29-30 2013.
- Panel/Challenge Chair, The first joint 3DIMPVT Conference (3D Imaging, Modeling, Processing, Visualization and Transmission), Hangzhou, China, May 16-20, 2011.
- Program Committee Member:
  - International Conference on Computer Vision (ICCV), December 2015, Santiago, Chile.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Boston, June 2015.
  - International Conference on 3D Vision (3DV 2015), Lyon, France, October 2015.
  - International Conference on 3D Vision (3DV 2014), University of Tokyo, Tokyo, Japan, December 2014.
  - 2014 Workshop on 3D Computer Vision in the Built Environment (with 3DV 2014), University of Tokyo, Tokyo, Japan, December 2014.
  - European Conference on Computer Vision (ECCV), Zurich, September 2014.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Columbus, OH, June 2014.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Portland, OR, June 2013.
  - 3DIMPVT Conference (3D Imaging, Modeling, Processing, Visualization and Transmission), ETH Zürich, Switzerland, October 13-15, 2012.
  - Workshop on Point Cloud Processing in Computer Vision (with CVPR), Providence, RI, June 2012.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Providence, RI, June 2012.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Colorado Springs, June 2011.
  - 13th International Conference on Computer Vision, Barcelona, 2011.
  - The first joint 3DIMPVT Conference (3D Imaging, Modeling, Processing, Visualization and Transmission), Hangzhou, China, May 16-20, 2011.
  - 23rd SIBGRAPI Conference on Graphics, Patterns and Images, in Gramado, Rio Grande do Sul, Brazil, August 30th - September 3rd 2010.
  - Reconstruction and Modeling of Large-Scale 3D Virtual Environments, in conjunction with the 11th European Conference on Computer Vision (ECCV 2010), September 10, 2010, Crete, Greece.
  - 5th International Symposium on 3D Data Processing, Visualization & Transmission, Paris, France, May 2010.
  - IEEE Workshop on eHeritage and Digital Art Preservation, in conjunction with ICCV 2009, Kyoto, Japan, October, 2009.

  - International Workshop on 3-D Imaging and Modeling, in conjunction with ICCV 2009, Kyoto, Japan, October, 2009.
  - IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Alaska, 2008.
  - 4th International Symposium on 3D Data Processing, Visualization & Transmission, June 2008, Georgia Institute of Technology, Atlanta, GA.
  - 11th International Conference on Computer Vision, October 2007, Rio de Janeiro, Brazil.
  - 6th International Conference on 3-D Digital Imaging and Modeling, August 2007, Montreal, Canada.
  - 3rd International Symposium on 3D Data Processing, Visualization & Transmission, June 2006, University of North Carolina, Chapel Hill.
  - 5th International Conference on 3-D Digital Imaging and Modeling, June 2005, Ottawa, Canada.
  - 2nd IEEE Workshop on Image and Video Registration (in conjunction with IEEE CVPR 2004), July 2004, Washington DC.
  - 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Las Vegas, NV.

- Belgian Science Policy Office, STEREO (Invited Reviewer).

- Reviewer:
  - International Journal of Computer Vision
  - Journal of Computer Vision and Image Understanding
  - Journal of Image and Vision Computing
  - International Journal of Robotics and Automation
  - Journal of Computer Graphics and Applications
  - Journal of Photogrammetric Engineering and Remote Sensing
  - IEEE Transactions on Pattern Analysis and Machine Intelligence
  - IEEE Transactions on Graphics
  - Pattern Recognition
  - IEEE International Conference on Computer Vision and Pattern Recognition
  - IEEE International Conference on Computer Vision
  - ACM SIGGRAPH
  - IEEE International Conference on 3D Digital Imaging and Modeling
  - 3DIMPVT Conference (3D Imaging, Modeling, Processing, Visualization and Transmission)
  - Eurographics (Annual Conference of the European Association of Computer Graphics)
  - IEEE International Conference on Robotics and Automation
  - Various workshops

COURSES TAUGHT

- CSc 74030: Computer Vision & Image Processing
  Fall 2016, Graduate Center (Aver. enrollment 10).
- CSCI 493.69 Computational Vision
  Spring 2002/2004/2013 and Fall 2008/2010/2014/2015/2016 Hunter College (Aver. enrollment 25)
- CSCI 335, Software Design and Analysis III (in C++) (i.e. Advanced Data Structures and Algorithms)
  Fall 2009/2011/2012/2015, Spring 2011/2012/2013/2015, Hunter College (Aver. enrollment 30)
- CSCI 235, Software Design and Analysis II (in C++) (i.e. Introduction to Data Structures)
  Fall 2001/2006/2008/2009/2014, Spring 2006/2009, Hunter College (Aver. enrollment 30)
- CSC 83020, Advanced Algorithms in 3D Computer Vision
  Fall 2011, Graduate Center (Aver. enrollment 10)
- CSC 83020, 3D Photography
  Fall 2002/2003, Spring 2009/2010/2011/2015/2016, Graduate Center (Aver. enrollment 10)
- CSC 83020, 3D Computer Vision
  Spring 2007/Fall 2012, Graduate Center (Aver. enrollment 12)
- CSC 83010, Topics in Computer Graphics: 3D Photography
  Spring 2005/2006, Graduate Center (Aver. enrollment 8) item W3137, Data Structures and Algorithms (in JAVA)
  Spring 2001, Columbia University (Aver. enrollment 100)
- CSCI 365, Computer Theory II
  Spring 2005, Hunter College (Aver. enrollment 30)
- CSCI 265, Computer Theory I
  Fall 2004/2005, Hunter College (Aver. enrollment 30)
- CSCI 150, Discrete Structures
  Fall 2002/2003, Spring 2003/2004, Hunter College (Aver. enrollment 30)

CURRENT PHD STUDENTS (ADVISOR)

- Allan Zelener, PhD student, Graduate Center of CUNY

FORMER PHD STUDENTS (ADVISOR)

- Juan Liu, Graduate Center of CUNY (September 2010 - December 2014), Thesis (2014): *Repeated Structure Detection in 2D urban images*. Currently at Google, New York, NY.
- Sam Friedman (Graduate Center of CUNY, September 2009-December 2013), Thesis (2013): *Discovering Regularity in Point Clouds of Urban Scenes*.
  Currently at Broad Institute, Cambridge, MA (was at Apple, Cupertino, CA).

- Adriana Wise, Graduate Center of CUNY , Thesis (2013): *Surface Model Simplification with Application to Unorganized Scanned Data*.
  Currently adjunct lecturer at Hunter College.
- Lingyun Liu (Graduate Center of CUNY, June 2003 - May 2007), Thesis (2007): *Automated Registration of 2D Images with 3D Range Data in a Photorealistic Modeling System of Urban Scenes*.
  Currently at Google, Mountain View, CA.
- Cecilia Chao Chen (Graduate Center of CUNY, September 2003 - August 2007), Thesis (2007): *Range Segmentation and Registration for 3D Modeling of Large Scale Urban Scenes*.
  Currently at Google, New York, NY.
- Agis Mesolongitis, PhD student, Graduate Center of CUNY
  A review of periodicity and repetition detection in 3D/2D data with applications in 3D reconstruction and scene analysis, Second Exam 2012.
  Currently at Meta, Sillicon Valley, CA.
- Thomas Flynn, PhD student, Graduate Center of CUNY.

UNDERGRADUATE STUDENTS (ADVISOR)

- James Kluz, Summer 2016 -
- Ilona Mikalowska, (Spring-Summer-Fall 2016).
- Elliot Hankins, Summer 2013.
- Matthew Evanusa, Summer 2012-2013.
- Samuel Friedman, Summer 2008 (completed PhD in our lab).
- Thomas Flynn, June 2009 - 2011 (now PhD student in our lab).
- Andrey Goltsev, September 2010 - 2011. Andrey is pursuing his MS at NYU-Poly.
- Ilya Korsunsky, June 2009 - May 2010. Ilya is now at the PhD program of NYU.
- Joyce Kim, June 2008 - May 2009. Joyce started her PhD studies at Columbia University on September 2009.
- Jeff Epstein, Summer/Fall 2008. Jeff completed his MS in Cambridge, UK.
- Marius Leordeanu, May 2002 - July 2003. Marius continued at the Robotics Institute of Carnegie Mellon University. Received PhD in 2009 (Prof. Martial Hebert advisor).
- Yevgeniy Pavlov, May 2005 - September 2006.
- Danny Lum, Summer 2006.
- Koichiro Matsunaga, Summer 2006. Koichiro completed his MS at Columbia University.

UNIVERSITY SERVICE

- Personnel and Budget committee, Dept. of Computer Science, Hunter College of CUNY (2007-Present).
- Laboratory committee member, Dept. of Computer Science, Hunter College of CUNY (2007-Present).
- Member of the Executive Committee of the PhD Program of Computer Science, Graduate Center of CUNY, Spring 2006, Fall 2014 - Present.
- Cyberinfrastructure Search Committee, Graduate Center of CUNY, 2012.
- Mentor for the NSF-funded Catalyst program (Computer Science Scholarships) at Hunter College of CUNY (2010-Present).
- Panelist and Reviewer, PSC-CUNY Awards (until 2009).
- Deputy Executive Officer, PhD Program of Computer Science, Graduate Center of CUNY, Fall 2002 - Spring 2003.
- Hunter College Senate, Fall 2001 - Fall 2004.
- Master's Admission Committee, Computer Science Department, Columbia University (one year).
- Hellenic Association of Columbia University (four years).

DOCTORAL THESIS COMMITTEES

- Need to be updated from 2014 and 2016.
- Joanna Klukowska, *Algorithms for Blur-Correction in 3D Electron and Soft X-Ray Microscopy*, Dept. of Computer Science, CUNY Graduate Center, August 2013.
- Nicholas Michael, *A Face Tracking System for Dynamic Event Recognition: Application to Continuous Recognition of Non-Manual Markers of American Sign Language and to Deception Detection by Kinetic Analysis*, Dept. of Computer Science, Rutgers University, December 2012.
- Hadi Fadaifard, *Multiscale Feature Extraction and Matching with applications to 3D Face Recognition and 2D Shape Warping*, Dept. of Computer Science, CUNY Graduate Center, May 2011.
- Weihong Li, *Lightweight 3D Modeling of Urban Buildings from Range Data*, Dept. of Computer Science, CUNY Graduate Center, February 2011.
- Ran Davidi, *Algorithms for superiorization and their applications to image reconstruction*, Dept. of Computer Science, CUNY Graduate Center, September 2010.
- Gene Yu, *Piecewise Surface Reconstruction from Range Data*, Dept. of Computer Science, CUNY Graduate Center, February 2010.
- Christoforos Christoforou, *The Bilinear Brain, Bilinear Methods for EEG Analysis and Brain Computer Interfaces*, Dept. of Computer Science, CUNY Graduate Center, February 2009.
- Igor Maslov, *Improving the Performance of Evolutionary Algorithms in Imaging Optimization*, Dept. of Computer Science, CUNY Graduate Center, February 2008.

- Alejandro Troccoli, *New Methods and Tools for 3-D Modeling using Range and Intensity Images*, Dept. of Computer Science, Columbia University, 2007.
- Audrey J. W. Mbogho, *Reliability and Testing in Vision-Based Interaction*, Dept. of Computer Science, CUNY Graduate Center, May 2006.
- Simina Fluture, *Model for Quantification and Analysis of Pulmonary Emphysema from Low-Dose Radiation CT Scans*, Dept. of Computer Science, CUNY Graduate Center, October 2004.

DOCTORAL PROPOSAL AND EXAMINATION COMMITTEES

Participated in various committees. Below are some of them.

- Need to be updated from 2012 on.
- Tao Wang, *AIM-SP: An Adaptive and Integrated Multimodal Sending and Processing Framework for long range moving object detection and classification*, Dept. of Computer Science, CUNY Graduate Center, (Proposal 2011 and Second Exam Committee).
- Hao Tang, *3D Scene Modeling and Understanding from Video*, Dept. of Computer Science, CUNY Graduate Center (Proposal 2011 and Second Exam Committee).
- Sadat Chowdhury, *Genetic Programming and Multi-Agent Systems: Key Features & Design Issues*, Dept. of Computer Science, CUNY Graduate Center (Second Exam 2011).
- Hadi Fadaifard, *Multi-Scale 3D Feature Extraction and Matching* (Proposal 2009), *3D Shape Matching Using Geometric Features: A Survey* (Second Exam 2008), Dept. of Computer Science, CUNY Graduate Center
- Weihong Li, *Lightweight 3D Reconstruction of Urban Buildings from Range Data*, Dept. of Computer Science, CUNY Graduate Center (Proposal 2009).
- Joanna Klukowska, *Algorithms for Blur-Correction in 3D Electron and Soft X-Ray Microscopy* (Proposal 2010), *Contrast Function Correction in Electron Microscopy* (Second Exam 2008), Dept. of Computer Science, CUNY Graduate Center.
- Erwann Rogard, Statistics Dept., Columbia University, (Candidacy Exam 2007).
- Ran Davidi, *Algorithms for superiorization and their applications to image reconstruction* (Proposal 2008 and Second Exam), Dept. of Computer Science, CUNY Graduate Center.
- Deniz Sarioz, Dept. of Computer Science, CUNY Graduate Center, Second Exam Committee.
- Igor Maslov, *Improving the Performance of Evolutionary Algorithms in Imaging Optimization*, Dept. of Computer Science, CUNY Graduate Center (Proposal and Second Exam).
- Audrey J. W. Mbogho, *Reliability and Testing in Vision-Based Interaction*, Dept. of Computer Science, CUNY Graduate Center (Proposal).
- Simina Fluture, *Model for Quantification and Analysis of Pulmonary Emphysema from Low-Dose Radiation CT Scans*, Dept. of Computer Science, CUNY Graduate Center (Proposal).