

## CURRICULUM VITAE

Dipl.-Ing.Dr.techn. Yll Haxhimusa

<b>Informatat themelore</b>	
Universiteti Teknik i Vjenës	Data e lindjes : 01. 03. 1972, Vendi i lindjes: Prishtine, Kosovë.
Faculteti i Informatikës	Gjinia: M
Karsplatz 4, 1040, Vienna, Austria	Statusi civil: Martuar
Web: <a href="http://www.prip.tuwien.ac.at/~yll">http://www.prip.tuwien.ac.at/~yll</a>	e-mail: <a href="mailto:yll@prip.tuiwen.ac.at">yll@prip.tuiwen.ac.at</a>

<b>Edukimi</b>	
2006	<b>Dr. techn.</b> Vienna Universtiy of Technology Faculty of Informatics
	Ph.D tema : <b>The Structurally Optimal Dual Graph Pyramid and its Application in Image Partitioning</b>
1998	<b>Dipl. Ing</b> , Universiteti i Prishtinës Faculty of Electrical and Computer Engineering
	<b>Dipl. Ing:.</b> <b>Rrjetat Neurale per Njohjen e Numrave</b>

<b>Karriera profesionale</b>	
2008-vazhdon	Profesor asistent, Vienna University of Technology Faculty of Informatics Institute of Computer Graphics and Algorithms Austria
2007-2008	Studiues senior shkencore Purdue University College of Liberal Arts USA
2006-2007	Studjues senior shkencore Vienna University of Technology Faculty of Informatics Institute of Computer Aided Automation Austria
2004-2006	Studiues shkencore Graz University of Technology Institute of Measurement and Measurement Signal Processing Austria

2001-2006	Studiues shkencore Vienna University of Technology Faculty of Informatics Institute of Computer Aided Automation Pattern Recognition and Image Processing Group Austria
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Ligjërimet	
2008 - present	Hyrje ne Njohjen e Mostrave Vienna University of Technology
2008- present	Interpretimi i Imazheve Vienna University of Technology
2009- present	Njohja e Mostrave University of Prishtina
2008- present	Algoritmet dhe Struktura e te Dhenave Kollegji Riinvest, Prishtina
2010	Hyrje ne Programim Kollegji Riinvest, Prishtina
2010	Programimi i orientuar me objekte Kollegji Riinvest, Prishtina
2010	Hyrje ne Procesimim Digjital te Imazheve Universiteti i Prishtines
2007-2009	Hyrje ne Shkencat Kompjuterike Kollegji Riinvest, Prishtina
2003	Procesimim Digjital te Imazheve Universiteti i Prishtines

Publikimet shkencore	
(lista aktuale mund te gjendet ne <a href="http://prip.tuwien.ac.at/~yll">http://prip.tuwien.ac.at/~yll</a> )	
Libra, kapituj të recensuar në libra dhe artikuj në zhurnale	

1. Yll Haxhimusa. **The Structurally Optimal Dual Graph Pyramid and its Application in Image Partitioning**. AKA and IOS Press, ISBN: 978-1-58603-743-7. June 2007.
2. Esther Antunez, Yll Haxhimusa, Rebeca Marfil amd Walter G. Kropatsch, and Antonio Bandera. **Artificial visual attention using combinatorial pyramids**. In Jose García Rodriguez and Miguel Cazorla (eds), editors, Robotics and Vision: Technologies for Machine Learning and Vision Applications, pages 439-457. IGI Global, 2012.
3. Iris van Rooij, Yll Haxhimusa, Zygmunt Pizlo, and Georg Gottlob. **Computer Science & Problem Solving: New Foundations** (Dagstuhl Seminar 11351). Dagstuhl Reports, 1(8):96-124, 2011.

4. Yll Haxhimusa, Edward Carpenter, Joseph Catrambone, David Foldes, Emil Stefanov, Laura Arns, Zygmunt Pizlo. **2D and 3D Traveling Salesman Problem**. Journal of Problem Solving, 2010.
5. Yll Haxhimusa, Walter G. Kropatsch, Zygmunt Pizlo, and Adrian Ion. **Approximating TSP Solution by MST based Graph Pyramid**. Journal of Image and Vision Computing, 2009.
6. Samuel Peltier, Adrian Ion, Yll Haxhimusa, Walter G. Kropatsch and Guillaume Damiand. **Computing Homology Group Generators of Images Using Irregular Graph Pyramid**. Journal of Image and Vision Computing, 2009.
7. Axel Pinz, Horst Bischof, Walter G. Kropatsch, Gerald Schweighofer, Yll Haxhimusa, Andreas Opelt, Adrian Ion. **Representations for Cognitive Vision: A Review of Appearance-Based, Spatio-Temporal, and Graph-Based Approaches**. Electronic Letters on Computer Vision and Image Analysis, 2009.
8. Walter G. Kropatsch and Yll Haxhimusa and Adrian Ion. **Multiresolution image segmentations in Graph Pyramids**. In Applied Graph Theory in Computer Vision and Pattern Recognition. Abraham Kandel, Horst Horst Bunke, and Mark Last (Eds.). Series: Studies in Computational Intelligence, Vol. 52, Chapter 1, pages 3-42, 2007.
9. Walter G. Kropatsch and Yll Haxhimusa and Zygmunt Pizlo and Georg Langs. **Vision pyramids that do not grow too high**. Pattern Recognition Letters, Volume 26, Issue 3 , pages 319-337, 2005. In Memoriam: Azriel Rosenfeld. Elsevier North-Holland.
10. Walter G. Kropatsch and Yll Haxhimusa and Pascal Lienhardt. **Hierarchies relating Topology and Geometry**. In Henrik Christensen and Hans-Hellmut Nagel editors, Cognitive Vision Systems, Chapter 13 pages 199--220 in Lecture Notes in Computer Science Volume LNCS 3948, 2006, Springer Verlag, Heidelberg.
11. Zygmunt Pizlo, Emil Stefanov, John Saalweachter, Zheng Li, Yll Haxhimusa and Walter G. Kropatsch. **Traveling Salesman Problem: a Foveating Pyramid Model**. Journal of Problem Solving, Volume 1, Issue 1, 2006.
12. Yll Haxhimusa. **Structurally Optimal Dual Graph Pyramid and its Application in Image Partitioning**. Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group. PhD Thesis.
13. Yll Haxhimusa. **Rrjetat Neurale per Njohjen e Numrave**. University of Prishtina, Faculty of Electrical Engineering, Department of Control and Electronics, May 1998, Prishtine, Kosove (in Albanian). MSc Thesis.

### Editor librash

14. Walter G. Kropatsch, Nicole M. Artner, Yll Haxhimusa, and Xiaoyi Jiang (eds). **Graph-Based Representations in Pattern Recognition**. 9th IAPR-TC-15 International Workshop, GbRPR 2013, Vienna, Austria, May 15-17, 2013. Proceedings, volume 7877 of Lecture Notes in Computer Science. Springer, 2013.

### Artikuj të recensuar në konferenca dhe puntori

15. Samuel de Sousa, Yll Haxhimusa, and Walter G. Kropatsch. **Estimation of distribution algorithm for the max-cut problem**. In Walter G. Kropatsch, Nicole M. Artner, Yll Haxhimusa, and Xiaoyi Jiang, editors, Graph-Based Representations in Pattern Recognition - 9th IAPR-TC-15 International Workshop, GbRPR 2013, Vienna, Austria, May 15-17, 2013. Proceedings, volume 7877 of Lecture Notes in Computer Science, pages 244-253. Springer, 2013.
16. Philip Limbeck, Walter G. Kropatsch, and Yll Haxhimusa. **Semi-automatic Tracking of Markers in Facial Palsy**. In Yoshimitsu Aoki Hideo Saito (eds), editor, ICPR 2012, In the Proceedings of the 21st International Conference in Pattern Recognition ICPR 2012, Tsukuba, Japan, pages 69-72. IEEE Comp. Soc., 2012.
17. Gayane Shalunts, Yll Haxhimusa, and Robert Sablatnig. **Segmentation of building facade domes**. In Luis Álvarez, Marta Mejail, Luis Gómez, and Julio C. Jacobo, editors, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications - 17th Iberoamerican Congress, CIARP 2012, Buenos Aires, Argentina, September 3-6, 2012. Proceedings, volume 7441 of Lecture Notes in Computer Science, pages 324-331. Springer, 2012.
18. Georg Zankl, Yll Haxhimusa, and Adrian Ion. **Interactive labeling of image segmentation hierarchies**. In Axel Pinz, Thomas Pock, Horst Bischof, and Franz Leberl, editors, Pattern Recognition - Joint 34th DAGM and 36th OAGM Symposium, Graz, Austria, August 28-31, 2012. Proceedings, volume 7476 of Lecture Notes in Computer Science, pages 11-20. Springer, 2012.
19. Gayane Shalunts, Yll Haxhimusa, and Robert Sablatnig. **Architectural style classification of domes**. In George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Charless Fowlkes, Sen Wang, Min-Hyung Choi, Stephan Mantler, Jürgen P. Schulze, Daniel Acevedo, Klaus Mueller, and Michael E. Papka, editors, Advances in Visual Computing - 8th International Symposium, ISVC 2012, Rethymnon, Crete, Greece, July 16-18, 2012, Revised Selected Papers, Part II, volume 7432 of Lecture Notes in Computer Science, pages 420-429. Springer, 2012.

20. Gayane Shalunts, Yll Haxhimusa and Robert Sablatnig. **Architectural Style Classification of Building Facade Windows**. In the Proceedings of the 7th International on Visual Computing, LNCS 6939, G. Bebis et al. (eds), pages 280–289, 2011, Las Vegas, Nevada, USA.
21. Michael Gerstmayer, Yll Haxhimusa, and Walter G. Kropatsch. **Hierarchical interactive image segmentation using irregular pyramids**. In Xiaoyi Jiang, Miquel Ferrer, and Andrea Torsello, editors, Graph-Based Representations in Pattern Recognition - 8th IAPR-TC-15 International Workshop, GbRPR 2011, Münster, Germany, May 18-20, 2011. Proceedings, volume 6658 of Lecture Notes in Computer Science, pages 245-254. Springer, 2011.
22. Fuensanta Torres, Rebeca Marfil, Yll Haxhimusa, and Antonio Bandera. **Combining regular decimation and dual graph contraction for hierarchical image segmentation**. In Rocio Gonzalez-Diaz and Pedro Real Jurado, editors, 3rd International Workshop on Computational Topology in Image Context, pages 97-104, Chipiona - Spain, November 2010. University of Sevilla, Spain. ISSN: 1885-4508.
23. Adrian Ion, Yll Haxhimusa, and Walter G. Kropatsch. **A system for point correspondences of 2d articulated shapes**. In Srecko Brlek, Christophe Reutenauer, and Xavier Provencal, editors, Discrete Geometry for Computer Imagery, 15th IAPR International Conference, DGCI 2009, Montréal, Canada, September 30 - October 2, 2009. Proceedings, volume 5810 of Lecture Notes in Computer Science, pages 92-103. Springer, 2009.
24. Martin Stubenschrott, Walter G. Kropatsch, and Yll Haxhimusa. **Combining an optical flow feature detector with graph-based segmentation**. In A. Ion and W.G. Kropatsch, editors, Proceedings of the 14th Computer Vision Winter Workshop, CVWW 2009, pages 91-98, Eibiswald, Austria, February 2009. Pattern Recognition and Image Processing Lab, Vienna University of Technology.
25. Adrian Ion, Yll Haxhimusa, and Walter G. Kropatsch. **A coordinate system for articulated 2d shape point correspondences (further aligning theta)**. In A. Ion and W.G. Kropatsch, editors, Proceedings of the 14th Computer Vision Winter Workshop, CVWW 2009, pages 91-98, Eibiswald, Austria, February 2009. Pattern Recognition and Image Processing Lab, Vienna University of Technology.
26. Adrian Ion, Yll Haxhimusa, Walter G. Kropatsch, and Salvador B. Lopez Marmol. **A coordinate system for articulated 2d shape point correspondences**. In 19th International Conference on Pattern Recognition (ICPR 2008), December 8-11, 2008, Tampa, Florida, USA, pages 1-4. IEEE, 2008.

27. Adrian Ion, Samuel Peltier, Yll Haxhimusa and Walter G. Kropatsch. **Decomposition for Efficient Eccentricity Transform of Convex Shapes**. In Proceeding of the 12th International Conference on Computer Analysis of Images and Patterns, LNCS 4673, W. G. Kropatsch, M. Kampel and A. Hanbury (eds), pages 653--660, August 2007, Vienna, Austria.
28. Yll Haxhimusa, Walter G. Kropatsch, Zygmunt Pizlo, Adrian Ion, and Andreas Lehrbaum. **Approximating TSP Solution by MST based Graph Pyramid**. In the Proceedings of the 6th International Workshop on Graph-based Representation for Pattern Recognition, LNCS 4538, F. Escolano and M. Vento (eds), pages 295--306, June 2007, Alicante, Spain.
29. Samuel Peltier, Adrian Ion, Yll Haxhimusa, Walter G. Kropatsch and Guillaume Damiand. **Computing Homology Group Generators of Images Using Irregular Graph Pyramid**. In the Proceedings of the 6th International Workshop on Graph-based Representation for Pattern Recognition, LNCS 4538, F. Escolano and M. Vento (eds), pages 283--294, June 2007, Alicante, Spain.
30. Adrian Ion, Gabriel Peyre, Yll Haxhimusa, Samuel Peltier, Walter G. Kropatsch, and Laurent Cohen. **Shape Matching Using the Geodesic Eccentricity Transform - A Study**. In Proceedings of the 31st annual workshop of the Austrian Association for Pattern Recognition, W. Ponweiser, M. Vincze, C. Beleznai (eds), pages 97--104, May 2007, Austria.
31. Samuel Peltier, Adrian Ion, Yll Haxhimusa, and Walter G. Kropatsch. **Controlling Geometry of Homology Generators**. In the Proceedings of 12th Computer Vision Winter Workshop, M. Grabner and H. Grabner (Ed.), pages 115--121, February 2007, Austria.
32. Yll Haxhimusa, Adrian Ion and Walter G. Kropatsch. **Irregular Pyramid Segmentations with Stochastic Graph Decimation Strategies**. In Proceeding of the 11th Iberoamerical Congress on Pattern Recognition, Lecture Notes in Computer Science LNCS 4225, J. F. Martinez-Trinidad et al., pages 277-280, November 2006, Cancun, Mexico.
33. Walter G. Kropatsch, Adrian Ion, Yll Haxhimusa and Thomas Flanitzer. **The Eccentricity Transform (of a digital shape)**. In Proceeding of the 13th International Conference on Discrete Geometry for Computer Imagery, Lecture Notes in Computer Science LNCS 4245, A. Kuba, L.G. Nyul, and K. Palagyi (Eds.), pages 437--448, October 2006, Szeged, Hungary.

34. Yll Haxhimusa, Adrian Ion and Walter G. Kropatsch. **Evaluating Hierarchical Graph-based Segmentation**. In Proceeding of the 18th International Conference on Pattern Recognition, Volume 2, Y. Y Tang, P. Wang, G. Lorette and D. S. Yeung (Eds.), pages 195-198, August 2006, Hong Kong, China.
35. Adrian Ion, Walter G. Kropatsch, and Yll Haxhimusa. **Considerations regarding the minimum spanning tree pyramid segmentation method (Why does it always find the lady?)**. Joint IAPR International Workshop on Structural and Syntactical and Structural Pattern Recognition and Statistical Pattern Recognition (SSPR & SPR), Lecture Notes in Computer Science LNCS 4109, D.-Y. Yeung, J. T. Kwok, A. Fred, F. Roli, D. de Ridder (Eds.), pages 182-190, August 2006, Hong Kong, China.
36. Yll Haxhimusa, Adrian Ion, and Walter G. Kropatsch. **Comparing Hierarchies of Segmentations: Humans, Normalized Cut, and Minimum Spanning Tree**. In the Proceeding of the 30th Austrian Association for Pattern Recognition Workshop, F. Lenzen, O.Scherzer and M. Vincze (Eds.), pages 95--103, March 2006, Austria, Oesterreichische Computer Gesellschaft.
37. Adrian Ion, Thomas Illetschko, Yll Haxhimusa, and Walter G. Kropatsch. **Distinguishing 3D-Topological Configurations of Two Tori**. In 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, B. Buchberger and S. Maruster (eds), pages 111-118, 2006, Romania.
38. Thomas Illetschko, Adrian Ion, Yll Haxhimusa, and Walter G. Kropatsch. **Collapsing 3D Combinatorial Maps**. In the Proceeding of the 30th Austrian Association for Pattern Recognition Workshop, F. Lenzen, O. Scherzer and M. Vincze (Eds.), 85--93, March 2006, Austria, Best Paper Award. Oesterreichische Computer Gesellschaft.
39. Thomas Illetschko, Adrian Ion, Yll Haxhimusa, and Walter G. Kropatsch. **Distinguishing the 3 primitive 3D-topological Configurations: Simplex, Hole, Tunnel**. In the Proceedings of 11th Computer Vision Winter Workshop, O. Cum and V. Franc (Ed.), pages 22-27, February 2006, Czech Republic. Czech Pattern Recognition Society.
40. Adrian Ion, Hurbert Hausegger, Walter G. Kropatsch, and Yll Haxhimusa. **How Humans Describe Short Videos**. In Proceedings of 2nd International Cognitive Vision Workshop, M. Vincze and L. Paletta, May 2006.

41. Yll Haxhimusa, Adrian Ion, Walter G. Kropatsch and Thomas Illetchko. **Evaluating Minimum Spanning Tree Based Segmentation Algorithms.** In the Proceeding of the 11th International Conference on Computer Analysis of Images and Patterns, Lecture Notes in Computer Science LNCS 3891 A. Gagalowicz and W. Philips (Eds.), pages 579--586, September 2005, France. Springer Verlag.
42. Yll Haxhimusa, Adrian Ion, Walter G. Kropatsch and Luc Brun. **Hierarchical Image Partitioning using Combinatorial Maps.** In the Proceeding of the Joint Hungarian-Austrian Conference on Image Processing and Pattern Recognition, D. Chetverikov, L. Czuni, and M. Vincze (Eds.), pages 179--186, May 2005, Hungary, Oesterreichische Computer Gesellschaft.
43. Adrian Ion and Yll Haxhimusa and Walter G. Kropatsch. **A Graph-Based Concept for Spatiotemporal Information in Cognitive Vision.** In the \em Proceedeenigs of 5th IAPR-TC15 Workshop on Graph-based Representations in Pattern Recognition, Luc Brun (Ed.), pages 223--232, 11-13 April 2005 Poitiers, France. Springer Verlag.
44. Walter G. Kropatsch and Yll Haxhimusa. **Grouping of Non-connected Structures by an Irregular Graph Pyramid.** In the Proceedings of the 2nd Iberian Conference on Pattern Recognition and Image Analysis, Lecture Notes in Computer Science LNCS 3523, J. Marques, and N. P. de la Blanca, and P. Pina (Eds.), pages 107--114, June 2005, Springer Verlag.
45. Adrian Ion, Yll Haxhimusa, Walter G. Kropatsch, and Luc Brun. **Hierarchical Image Partitioning using Combinatorial Maps.** In the Proceedings of 10th Computer Vision Winter Workshop, A. Hanbury and H. Bischof (Eds.), pages 43--52, 2-4 February 2005, Zell am der Pram, Austria.
46. Adrian Ion, Yll Haxhimusa and Walter G. Kropatsch. **A Topology-Based Concept for Contraction in Spatiotemporal Space.** In the Proceedings of 1st Austrian Cognitive Vision Workshop, M Zillich and M. Vinze (Eds.), pages 19--26, January 2005, Zell am der Pram, Austria, Oesterreichische Computer Gesellschaf.
47. Walter G. Kropatsch and Yll Haxhimusa and Z. Pizlo. **Integral Trees: Subtree Depth and Diameter.** In Proceedings of 10th International Workshop on Combinatorial Image Analysis, IWCIA 2004, R. Klette and J. Zunic (Eds.), Lecture Notes in Computer Science, LNCS 3322, pages 77--87, Auckland, New Zealand, Springer Verlag.



48. Walter G Kropatsch and Yll Haxhimusa. **Hierarchical Grouping of Non-connected Structures.** In Wilhelm Burger and Josef Scharinger, editors, Proceedings of 28th Austrian Association for Pattern Recognition Workshop, pages 165--172, Hagenberg, Austria, 2004. Oesterreichische Computer Gesellschaft.
49. Yll Haxhimusa and Walter G. Kropatsch. **Segmentation Graph Hierarchies.** In the Proceedings of S+SSPR2004, In A. Fred and T. Caelli and R. P.W. Duin and A. Campilho and D. de Ridder (Eds.), pages 343--351, Portugal, August 2004, Springer Verlag Heidelberg.
50. Walter G. Kropatsch and Yll Haxhimusa. **Grouping and Segmentation in a Hierarchy of Graphs.** In Proceedings of 16th IS&T/SPIE Symposium, Computational Imaging II SPIE Vol 5299, Ch. A. Bouman and E. L. Miller (Eds.), USA, 2004, The International Society for Optical Engineering.
51. Yll Haxhimusa and Walter G. Kropatsch. **Hierarchical of Partitions with Dual Graph Contraction.** In the Proceedings of 25th Pattern Recognition Symposium, B. Milaelis and G. Krell (Eds.), Lecture Notes in Computer Science, LNCS 2781, pages 338-345, Magdeburg, Germany, 2003, Springer Verlag Heidelberg.
52. Yll Haxhimusa and Walter G. Kropatsch. **Image Partitioning with Graph Pyramids.** In the Proceedings of 27th Austrian Association for Pattern Recognition Workshop, C. Beleznai and Th. Schoegl (Eds.), pages 81--88, Laxenburg, 2003. Oesterreichische Computer Gesellschaft.
53. Yll Haxhimusa, Roland Glantz, and WalterG. Kropatsch. **Constructing Stochastic Pyramids by MIDES - Maximal Independent Directed Edge Set.** In the 4th IAPR-TC15 Workshop on Graph-based Representation in Pattern Recognition, E. Hancock and M. Vento (Eds.), Lecture Notes in Computer Science, LNCS 2726, pages 35--46, York, UK, June-July 2003. Springer Verlag.
54. Yll Haxhimusa, Roland Glantz, Maamar Saib, Georg Langs, and Walter G. Kropatsch. **Reduction Factors of Image Pyramid on directed and Directed Graph.** In Proceedings of the 7th. Computer Vision Winter Workshop, H. Wildenauer and W. Kropatsch (Eds.), pages 29--38. PRIP, Vienna University of Technology, 2002.
55. Yll Haxhimusa, Roland Glantz, Maamar Saib, Georg Langs, and Walter G. Kropatsch. **Logarithmic Tapering Graph Pyramid.** In the Proceedings of 24th Pattern Recognition Symposium, Luc van Gool (Ed.), Lecture Notes in Computer Science, LNCS 2449 pages 117--124, Swiss, 2002. Springer Verlag.

56. Yll Haxhimusa and Walter G. Kropatsch. **Path Lengths in Sochastic Graph Image Pyramid**. In the Proceedings of 26th Austrian Association for Pattern Recognition Workshop, F. Leberl and F. Fraundorfer (Eds.), pages 79--86, Graz, 2002. Oesterreichische Computer Gesellschaft.
57. Yll Haxhimusa, Maamar Saib, Roland Glantz, and Walter G.Kropatsch. **Equivalent Contraction Kernels Using Dynamic Trees**. In the Proceedings of the 6th Computer Vision Winter Workshop, Bostjan Likar (Ed.), pages 267--275, Ljubljana, 2001. Slovenian Pattern Recognition Society.

### Abstrakte të recensuara

58. Yll Haxhimusa. **Interactive labeling of image segmentation hierarchies**. Statistische Woche, pages 71-72, Vienna, Austria, 2012.
59. Yll Haxhimusa, Joseph Catrambone and Zygmunt Pizlo **Traveling Salesman Problem with non-Euclidean Distances**. Mathematical Psychology Symposium, Washington DC, USA, July 2008.
60. Yll Haxhimusa, Zygmunt Pizlo and Joseph Catrambone. **Non-Euclidean Visual Traveling Salesman Problem**. Vision Science Society, Naples, Florida, USA, May 2008.
61. Yll Haxhimusa, Zygmunt Pizlo and Emil Stefanov. **Solving Euclidean Traveling Salesman Problems in the Presence of Errors**. Mathematical Psychology Symposium, Irvine, California, USA, July 2007.
62. Yll Haxhimusa, Walter G. Kropatsch, and Zygmunt Pizlo. **MST based Pyramid Model of TSP**. Mathematical Psychology Symposium, Vancouver, British Columbia, Canada, August 2006.

### Raporte teknike

63. Adrian Ion and Yll Haxhimusa and Walter G. Kropatsch. **Skewed Coordinate System for Dense Point Correspondences Inside Articulated Shapes**. Technical Report PRIP-TR-126, Vienna University of Technology, Faculty of Informatics, Institute of Computer Graphics and Algorithms, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr126.pdf>, August 2011.

64. Andreas Hubner and Adrian Ion and Walter G. Kropatsch and Yll Haxhimusa and Hubert Hasegger. **How Humans Describe Short Videos - Details of an Experiment**. Technical Report PRIP-TR-113, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr113.pdf>, June 2007.
65. Samuel Peltier, Adrian Ion, Yll Haxhimusa and Walter G. Kropatsch. **Computing Homology Group Generators of Images Using Irregular Graph Pyramids**. Technical Report PRIP-TR-111, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr111.pdf>, December 2006.
66. Axel Pinz, Horst Bischof, Walter Kropatsch, Gerald Schweighofer, Yll Haxhimusa, Andreas Opelt, and Adrian Ion. **Representations for Cognitive Vision: A Review of Appearance-Based, Spatio-Temporal, and Graph-Based Approaches**. Technical Report PRIP-TR-109, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr109.pdf>, October 2006.
67. Thomas Illetschko and Adrian Ion and Yll Haxhimusa, and Walter G. Kropatsch. **Effective Programming of Combinatorial Maps using COMA - A C++ Framework for Combinatorial Maps**. Technical Report PRIP-TR-106, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr106.pdf>, October 2006.
68. Adrian Ion, Yll Haxhimusa and Walter G. Kropatsch. **A Graph-Based Concept for Spatio-temporal Information in Cognitive Vision**. Technical Report PRIP-TR-98, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group, <http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr98.pdf>, December 2005.

69. Walter G. Kropatsch, Yll Haxhimusa and Zygmunt Pizlo. **Integral Trees: Subtree Depth and Diameter**. Technical Report PRIP-TR-92, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group,  
<http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr92.pdf>,  
September 2004.
70. Yll Haxhimusa and Walter G. Kropatsch. **Hierarchical Image Partitioning with Dual Graph Contraction**. Technical Report PRIP-TR-81, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group,  
<http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr81.pdf>, July 2003.
71. Yll Haxhimusa and Walter G. Kropatsch. **Experimental Results of MIS, MIES, MIDES and D3P**. Technical Report PRIP-TR-78, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group,  
<http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr78.pdf>,  
January 2003.
72. Yll Haxhimusa and Walter G. Kropatsch. **Reduction Factors of Pyramids on Undirected and Directed Graphs**. Technical Report PRIP-TR-74, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group,  
<http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr74.pdf>, June 2002.
73. Maamar Saib, Yll Haxhimusa, and Roland Glantz. **Dgc\_tool: Building Irregular Graph Pyramid Using Dual Graph Contraction**. Technical Report PRIP-TR-69, Vienna University of Technology, Faculty of Informatics, Institute of Computer Aided Automation, Pattern Recognition and Image Processing Group,  
<http://www.prip.tuwien.ac.at/ftp/pub/publications/trs/tr69.pdf>,  
February 2002.

<b>Projektet shkencore</b>	
2013-2014	Methodology and hybrid algorithms for solving the large-scale intractable combinatorial problems (HALSIC). Granted by the Wissenschaftlich-Technische Zusammenarbeit UA 06/2013. Partner: University of Lviv, Ukraine
2010-2011	Visual Attention using Combinatorial Pyramids (VACOP). Granted by the Wissenschaftlich-Technische Zusammenarbeit ES 13/2010. Partner: University of Malaga, Spain.
2006-2009	Tracking with Structure in Computer Vision (TWIST-CV). Granted by Austrian Science Foundation FWF-P18716-N13)
2008-2011	Computing Homology within Image Context (Chic). Granted by Austrian Science Foundation FWF-P20134-N13
2003-2009	Cognitive Vision (CogVis). granted by Austrian Science Foundation FWF-S9103-N04

<b>Aktivitetet shkencore</b>	
Organizim i konferencave	Dagstuhl Seminar 14341 'Resource Bounded Problem Solving', August 2014
	Dagstuhl Seminar 11351 'Computer Science & Problem Solving: New Foundations', August 2011
	Int. Workshop on Graph-based Representation for Pattern Recognition (GbrPR2013), May 2013
Komitete shkencore	Int. Conference on Pattern Recognition, Int. Conference on Computer Analysis of Images and Patterns, Int. Conference on Discrete Geometry for Computer Imagery Int. Workshop Computer Vision Winter Workshop Int. Workshop on Graph-based Representation for PR
Recensues	Journal of Pattern Analysis and Machine Intelligence, Journal of Computer Vision and Image Understanding, Journal of Pattern Recognition Letters, Journal of Pattern Recognition
	Conference: ICPR, ECCV, S+SSPR, DAGM, CAIP, and DGCI Workshop: GbrRPR, AAPR, AWCV, CVWW, and IWCV

### **Antarsia në shoqata shkencore**

Institute of Electrical and Electronics Engineers (IEEE)

Technical Committee 15 'Graph-based Representation in Pattern Recognition' IAPR-TC15

Austrian Association for Pattern Recognition - AAPR

Austrian Computer Society - OCG

EUCognition Network of Excellence - EUCogII

Mathematical Psychology Society, USA

Vision Science Society, USA - VSS

### **Shperblimet**

Nominated as the best PHD Thesis at the Faculty of Informatics, Vienna University of Technology, 2007 [1]

Best Paper Award. Oesterreichische Computer Gesellschaft [38]

### **Gjuhët**

Shqip – gjuhë amtare

Gjermanisht – rrjedhshëm

Anglisht - rrjedhshëm

Serbisht/Kroatisht/Boshnjakisht - shkëlqyeshëm

Prishtinë, May, 2013

Dipl.-Ing.Dr.techn.  
Yll Haxhimusa

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