Publication & Citation List

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Contents

1 Introduction

A list of publications is given per publication type (journal, conference, etc.), followed by a list of citations per publication. The overall citation metrics are as follows:

- Total publications: 133
- Total citations: 1194
- h-index[1]: 19
- g-index[2]: 28

If N is the total number of publications, the *h-index* is defined as the number h such that h of the N publications have at least h citations each, and the remaining $N - h$ publications have no more than h citations each.

Further, if c_i is the number of citations of publication i for $i = 1, \ldots, N$, the *g-index* is defined as the greatest number g such that each of the g most cited publications has g citations on average, that is,

$$g^2 \leq \sum_{i \leq g} c_i.$$

[1] http://en.wikipedia.org/wiki/H-index
[2] http://en.wikipedia.org/wiki/G-index

The citation source is Google Scholar[3] and despite manual corrections, many citations are incomplete, while certain ones may by invalid.

2 Publications

2.1 Theses

[T3] Y. Avrithis. "Video Sequence Analysis for Content Description, Summarization and Content-Based Retrieval". PhD thesis. Greece: School of Electrical and Computer Engineering, National Technical University of Athens, Feb. 2001.

[T2] Y. Avrithis. "Investigating the Capacity of a Cellular CDMA System". MA thesis. UK: Department of Electrical and Electronic Engineering, Imperial College of Science, Technology and Medicine, University of London, Oct. 1994.

[T1] Y. Avrithis. "Fuzzy Logic Processor for Control Systems". MA thesis. Greece: School of Electrical and Computer Engineering, National Technical University of Athens, Sept. 1993.

2.2 Edited volumes

[V3] B. Huet, A.F. Smeaton, K. Mayer-Patel, and Y. Avrithis, eds. *Advances in Multimedia Modeling*. Vol. 5371. Lecture Notes in Computer Science. Springer, Jan. 2009. ISBN: 978-3-540-92891-1.

[V2] B. Falcidieno, M. Spagnuolo, Y. Avrithis, I. Kompatsiaris, and P. Buitelaar, eds. *Semantic Multimedia*. Vol. 4816. Lecture Notes in Computer Science. Springer, Dec. 2007. ISBN: 978-3-540-77033-6.

[V1] Y. Avrithis, Y. Kompatsiaris, S Staab, and N. O'Connor, eds. *Semantic Multimedia*. 1st. Vol. 4306. Lecture Notes in Computer Science. Springer, Dec. 2006. ISBN: 978-3-540-49335-8.

2.3 Journal articles

[J20] K. Rapantzikos, Y. Avrithis, and S. Kollias. "Spatiotemporal features for action recognition and salient event detection". In: *Cognitive Computation (Special Issue on Saliency, Attention, Visual Search and Picture Scanning)* 3.1 (Mar. 2011). Ed. by J. G. Taylor and V. Cutsuridis, pp. 167–184.

[J19] Y. Kalantidis, G. Tolias, Y. Avrithis, M. Phinikettos, E. Spyrou, P. Mylonas, and S. Kollias. "VIRaL: Visual Image Retrieval and Localization". In: *Multimedia Tools and Applications* 51.2 (Jan. 2011), pp. 555–592.

[J18] K. Rapantzikos, N. Tsapatsoulis, Y. Avrithis, and S. Kollias. "Spatiotemporal Saliency for Video Classification". In: *Signal Processing: Image Communication* 24.7 (Aug. 2009), pp. 557–571.

[J17] Ph. Mylonas, E. Spyrou, Y. Avrithis, and S. Kollias. "Using Visual Context and Region Semantics for High-Level Concept Detection". In: *IEEE Transactions on Multimedia* 11.11 (Feb. 2009), pp. 229–243.

[J16] E. Spyrou, G. Tolias, P. Mylonas, and Y. Avrithis. "Concept detection and keyframe extraction using a visual thesaurus". In: *Multimedia Tools and Applications* 41.3 (Feb. 2009), pp. 337–373.

[J15] Ph. Mylonas, Th. Athanasiadis, M. Wallace, Y. Avrithis, and S. Kollias. "Semantic Representation of Multimedia Content–Knowledge Representation and Semantic Indexing". In: *Multimedia Tools and Applications* 39.3 (Sept. 2008), pp. 293–327.

[J14] Ph. Mylonas, D. Vallet, P. Castells, M. Fernandez, and Y. Avrithis. "Personalized information retrieval based on context and ontological knowledge". In: *Knowledge Engineering Review* 23.1 (Mar. 2008), pp. 73–100.

[3] http://scholar.google.com

[J13] Th. Athanasiadis, Ph. Mylonas, Y. Avrithis, and S. Kollias. "Semantic Image Segmentation and Object Labeling". In: *IEEE Transactions on Circuits and Systems for Video Technology* 17.3 (Mar. 2007), pp. 298–312.

[J12] D. Vallet, P. Castells, M. Fernández, Ph. Mylonas, and Y. Avrithis. "Personalized Content Retrieval in Context Using Ontological Knowledge". In: *IEEE Transactions on Circuits and Systems for Video Technology* 17.3 (Mar. 2007), pp. 336–346.

[J11] G. Th. Papadopoulos, Ph. Mylonas, V. Mezaris, Y. Avrithis, and I. Kompatsiaris. "Knowledge-Assisted Image Analysis Based on Context and Spatial Optimization". In: *International Journal on Semantic Web and Information Systems* 2.3 (July 2006), pp. 17–36.

[J10] K. Rapantzikos, N. Tsapatsoulis, Y. Avrithis, and S. Kollias. "A Bottom-Up Spatiotemporal Visual Attention Model for Video Analysis". In: *IET Image Processing* 1.2 (June 2007), pp. 237–248.

[J9] K. Petridis, S. Bloehdorn, C. Saathoff, N. Simou, S. Dasiopoulou, V. Tzouvaras, S. Handschuh, Y. Avrithis, I. Kompatsiaris, and S. Staab. "Knowledge Representation and Semantic Annotation of Multimedia Content". In: *IEE Proceedings on Vision, Image and Signal Processing (Special Issue on Knowledge-Based Digital Media Processing)* 153.3 (June 2006), pp. 255–262.

[J8] M. Wallace, Y. Avrithis, and S. Kollias. "Computationally efficient sup-t transitive closure for sparse fuzzy binary relations". In: *Fuzzy Sets and Systems* 157.3 (Feb. 2006), pp. 341–372.

[J7] M. Wallace, Th. Athanasiadis, Y. Avrithis, A. Delopoulos, and S. Kollias. "Integrating Multimedia Archives: The Architecture and the Content Layer". In: *IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans* 36.1 (Jan. 2006), pp. 34–52.

[J6] Y. Avrithis, G. Stamou, M. Wallace, F. Marques, P. Salembier, X. Giro, W. Haas, H. Vallant, and M. Zufferey. "Unified Access to Heterogeneous Audiovisual Archives". In: *Journal of Universal Computer Science* 9.6 (June 2003), pp. 510–519.

[J5] N. Tsapatsoulis, Y. Avrithis, and S. Kollias. "Facial Image Indexing in Multimedia Databases". In: *Pattern Analysis and Applications (Special Issue on Image Indexation)* 4.2–3 (June 2001), pp. 93–107.

[J4] Y. Avrithis, Y. Xirouhakis, and S. Kollias. "Affine-Invariant Curve Normalization for Object Shape Representation, Classification and Retrieval". In: *Machine Vision and Applications* 13.2 (Nov. 2001), pp. 80–94.

[J3] A. Doulamis, N. Doulamis, Y. Avrithis, and S. Kollias. "A Fuzzy Video Content Representation for Video Summarization and Content-Based Retrieval". In: *Signal Processing (Special Issue on Fuzzy Logic in Signal Processing)* 80.6 (June 2000), pp. 1049–1067.

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[J1] Y. Avrithis, A. Doulamis, N. Doulamis, and S. Kollias. "A Stochastic Framework for Optimal Key Frame Extraction from MPEG Video Databases". In: *Computer Vision and Image Understanding (Special Issue on Content-Based Access of Image and Video Libraries)* 75.1–2 (July 1999), pp. 3–24.

2.4 Conference proceedings

[C92] C. Varytimidis, K. Rapantzikos, and Y. Avrithis. "Weighted α-Shapes for Local Feature Detection". In: *Proceedings of European Conference on Computer Vision (ECCV 2012)*. Florence, Italy, Oct. 2012.

[C91] Y. Avrithis and Y. Kalantidis. "Approximate Gaussian Mixtures for Large Scale Vocabularies". In: *Proceedings of European Conference on Computer Vision (ECCV 2012)*. Florence, Italy, Oct. 2012.

[C90] G. Tolias, Y. Kalantidis, and Y. Avrithis. "SymCity: Feature Selection by Symmetry for Large Scale Image Retrieval". In: *Proceedings of ACM Multimedia (Full paper) (MM 2012)*. Nara, Japan: ACM, Oct. 2012.

[C89] G. Tolias and Y. Avrithis. "Speeded-up, Relaxed Spatial Matching". In: *Proceedings of International Conference on Computer Vision (ICCV 2011)*. Barcelona, Spain, Nov. 2011.

[C88] Y. Avrithis and K. Rapantzikos. "The Medial Feature Detector: Stable Regions from Image Boundaries". In: *Proceedings of International Conference on Computer Vision (ICCV 2011)*. Barcelona, Spain, Nov. 2011.

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[C85] Y. Avrithis, G. Tolias, and Y. Kalantidis. "Feature Map Hashing: Sub-linear Indexing of Appearance and Global Geometry". In: *Proceedings of ACM Multimedia (Full paper) (MM 2010)*. Firenze, Italy, Oct. 2010.

[C84] K. Rapantzikos, Y. Avrithis, and S. Kollias. "Detecting Regions from Single Scale Edges". In: *Proceedings of International Workshop on Sign, Gesture and Activity (SGA'10), part of European Conference on Computer Vision (ECCV 2010)*. Sept. 2010.

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[C81] Th. Athanasiadis, N. Simou, G. Papadopoulos, R. Benmokhtar, K. Chandramouli, V. Tzouvaras, V. Mezaris, M. Phinikettos, Y. Avrithis, Y. Kompatsiaris, B. Huet, and E. Izquierdo. "Integrating Image Segmentation and Classification for Fuzzy Knowledge-based Multimedia Indexing". In: *Proceedings of 15th International Multimedia Modeling Conference (MMM 2009)*. Sophia Antipolis, France, Jan. 2009, pp. 263–274.

[C80] E. Spyrou, G. Tolias, and Y. Avrithis. "Large Scale Concept Detection in Video Using a Region Thesaurus". In: *Proceedings of 15th International Multimedia Modeling Conference (MMM 2009)*. Sophia Antipolis, France, Jan. 2009.

[C79] S. Nikolopoulos, C. Lakka, I. Kompatsiaris, C. Varytimidis, K. Rapantzikos, and Y. Avrithis. "A cross media approach for compound document analysis". In: *Proceedings of 7th International Workshop on Content-Based Multimedia Indexing (CBMI 2009)*. Chania, Greece, June 2009.

[C78] Y. Kalantidis, G. Tolias, E. Spyrou, Ph. Mylonas, and Y. Avrithis. "Visual Image Retrieval and Localization". In: *Proceedings of 7th International Workshop on Content-Based Multimedia Indexing (CBMI 2009)*. Chania, Greece, June 2009.

[C77] G. Evangelopoulos, K. Rapantzikos, A. Potamianos, P. Maragos, A. Zlatintsi, and Y. Avrithis. "Movie Summarization Based On Audio-Visual Saliency Detection". In: *Proceedings of 15th International Conference on Image Processing (ICIP 2008)*. San Diego, CA, USA, Oct. 2008.

[C76] E. Spyrou, Ph. Mylonas, and Y. Avrithis. "Using Region Semantics And Visual Context For Scene Classification". In: *Proceedings of 1st Workshop on Multimedia Information Retrieval: New Trends and Challenges, part of International Conference on Image Processing (ICIP 2008)*. San Diego, CA, USA, Oct. 2008.

[C75] E. Galmar, Th. Athanasiadis, B. Huet, and Y. Avrithis. "Spatiotemporal Semantic Video Segmentation". In: *Proceedings of 10th International Workshop on Multimedia Signal Processing (MMSP 2008)*. Cairns, Australia: IEEE, Oct. 2008.

[C74] P. Kapsalas, K. Rapantzikos, A. Sofou, and Y. Avrithis. "Regions Of Interest for Accurate Object Detection". In: *Proceedings of 6th International Workshop on Content-Based Multimedia Indexing (CBMI 2008)*. London, UK, June 2008.

[C73] V. Giannekou, P. Tzouveli, Y. Avrithis, and S.Kollias. "Affine invariant curve matching using normalization and curvature scale-space". In: *Proceedings of 6th International Workshop on Content-Based Multimedia Indexing (CBMI 2008)*. London, UK, June 2008.

[C72] E. Spyrou, Ph. Mylonas, and Y. Avrithis. "A Visual Context Ontology for Multimedia High-Level Concept Detection". In: *Proceedings of 5th International Workshop in Modeling and Reasoning in Context (MRC 2008)*. Delft, The Netherlands, June 2008.

[C71] E. Spyrou, G. Tolias, Ph. Mylonas, and Y. Avrithis. "A Semantic Multimedia Analysis Approach Utilizing a Region Thesaurus and LSA". In: *Proceedings of 9th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2008)*. May 2008.

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[C68] E. Spyrou and Y. Avrithis. "A Region Thesaurus Approach for High-Level Concept Detection in the Natural Disaster Domain". In: *Proceedings of 2nd International Conference on Semantics and Digital Media Technologies (SAMT 2007)*. Genova, Italy, Dec. 2007.

[C67] Ph. Mylonas, E. Spyrou, and Y. Avrithis. "Enriching a context ontology with mid-level features for semantic multimedia analysis". In: *Proceedings of 1st Workshop on Multimedia Annotation and Retrieval enabled by Shared Ontologies (MARESO 2007), part of International Conference on Semantics And Digital Media Technologies (SAMT 2007)*. Genova, Italy, Dec. 2007.

[C66] Ph. Mylonas, N. Simou, V. Tzouvaras, and Y. Avrithis. "Towards Semantic Multimedia Indexing by Classification and Reasoning on Textual Metadata". In: *Proceedings of Knowledge Acquisition from Multimedia Content Workshop (KAMC 2007), part of International Conference on Semantics And Digital Media Technologies (SAMT 2007)*. Genova, Italy, Dec. 2007.

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[C62] K. Rapantzikos, Y.Avrithis, and S. Kollias. "Spatiotemporal saliency for event detection and representation in the 3D Wavelet Domain: Potential in human action recognition". In: *Proceedings of ACM International Conference on Image and Video Retrieval (CIVR 2007)*. Amsterdam, The Netherlands, July 2007, pp. 294–301.

[C61] Ph. Mylonas and Y. Avrithis. "Using Multiple Domain Visual Context in Image Analysis". In: *Proceedings of 8th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2007)*. Santorini, Greece, June 2007.

[C60] P. Berka, Th. Athanasiadis, and Y. Avrithis. "Rule-based Reasoning for Semantic Image Segmentation and Interpretation". In: *Poster & Demo Proceedings of 1st International Conference on Semantics And digital Media Technology (SAMT 2006)*. Athens, Greece: CEUR-WS, Dec. 2006, pp. 39–40.

[C59] Th. Athanasiadis, Ph. Mylonas, and Y. Avrithis. "A Context-based Region Labeling Approach for Semantic Image Segmentation". In: *Proceedings of 1st International Conference on Semantics And digital Media Technology (SAMT 2006)*. Athens, Greece, Dec. 2006, pp. 212–225.

[C58] S. Dasiopoulou, G. Th. Papadopoulos, Ph. Mylonas, Y. Avrithis, and I. Kompatsiaris. "Using Context and a Genetic Algorithm for Knowledge-Assisted Image Analysis". In: *Proceedings of 1st International Conference on Semantics And Digital Media Technology (SAMT 2006)*. Athens, Greece, Dec. 2006.

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[C51] P. Tzouveli, Y. Avrithis, and S. Kolllias. "Fast Video Object Tracking using Affine Invariant Normalization". In: *Proceedings of 3rd IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI 2006)*. Athens, Greece, June 2006.

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