

## Lecturer Konstantinos Zagoris

### Neapolis University Pafos



Address: 2 Danaes Avenus

Telephone: +357 26843427

Email: k.zagoris@nup.ac.cy

Research Gate:

[https://www.researchgate.net/profile/Konstantinos\\_Zagoris](https://www.researchgate.net/profile/Konstantinos_Zagoris)

Dr. Konstantinos Zagoris received the Diploma in Electrical and Computer Engineering in 2003 from Democritus University of Thrace, Greece and his PhD on Content and Metadata Based Image Document Retrieval from the same university in 2010. He worked as Research Assistant at Salford University in 2011 and then, as postdoc researcher at the Institute of Informatics & Telecommunications (I.I.T.), «Demokritos». He is currently working as PostDoc Researcher at the Democritus University of Thrace. He is author of more than 40 publications in journals and international conference proceedings and has participated in several research programs funded by the Hellenic Republic or European community.

### RESEARCH INTERESTS

His research interests include document, image and multimodal retrieval, colour image processing and analysis, document analysis, pattern recognition.

### PUBLICATIONS (2012-2018)

#### *Papers in Peer Review Journals*

1. Mühlberger, G, Seaward, L, Terras, M, Ares Oliveira, S, Bosch, V, Bryan, M, Colutto, S, Déjean, H, Diem, M, Fiel, S, Gatos, B, Grüning, T, Greinöcker, A, Hackl, G, Haukkoara, V, Heyer, G, Hirvonen, L, Hodel, T, Jokinen, M, Kahle, P, Kallio, M, Kaplan, F, Florian, K, Labahn, R, Lang, EM, Laube, S, Leifert, G, Louloudis, G, McNicholl, R, Meunier, JL, Michael, J, Mühlbauer, E, Philipp, N, Pratikakis, I, Puigcerver Pérez, J, Putz, H, Retsinas, G, Romero, V, Sablatnig, R, Sánchez, JA, Schofield, P, Sfikas, G, Sieber, C, Stamatopoulos, N, Strauß, T, Terbul, T, Toselli, AH, Ulreich, B, Villegas, M, Vidal, E, Walcher, J, Weidemann, M, Wurster, H, Zagoris, K. "Transforming Scholarship in the Archives Through Handwritten Text Recognition: Transkribus as a Case Study." *Journal of Documentation* (2019)
2. K. Zagoris, I. Pratikakis and B. Gatos, «Unsupervised Word Spotting in Historical Handwritten Document Images Using Document-Oriented Local Features», in *IEEE Transactions on Image Processing*, vol. 26, no. 8, pp. 40324041, Aug. 2017
3. L. Tsochatzidis, K. Zagoris, N. Arikidis, A. Karahaliou, L. Costaridou, I. Pratikakis, «Computer-aided diagnosis of mammographic masses based on a supervised content-based image retrieval approach», *Pattern Recognition*, Volume 71, Pages 106117, 2017
4. K. Zagoris, I. Pratikakis, A. Antonopoulos, B. Gatos and N. Papamarkos «Distinction between handwritten and machine-printed text based on the bag of visual words model», *Pattern Recognition*, 47 (3), (1051 1062), 2014.

5. Zagoris, K. and Pratikakis, I. «Text detection on natural images using mnemonic cellular automata», *Journal of Cellular Automata*, 9 (23), (183194), 2014.
6. A. Arampatzis, K. Zagoris and S. A. Chatzichristofis, «Dynamic Two-Stage Image Retrieval from Large Multimedia Databases», *Information Processing and Management*, Vol. 49, No. 1, ppp 274285, 2013.

*Proceedings in Scientific Conferences*

1. K. Zagoris and I. Pratikakis, «Bio-Inspired Modeling for the Enhancement of Historical Handwritten Documents», 2017 14th IAPR International Conference on Document Analysis and Recognition (ICDAR), Kyoto, Japan, 2018, pp. 13951403.
2. I. Pratikakis, K. Zagoris, G. Barlas and B. Gatos, «ICDAR2017 Competition on Document Image Binarization (DIBCO 2017) », 2017 14th IAPR International Conference on Document Analysis and Recognition (ICDAR), Kyoto, Japan, 2018, pp. 13951403.
3. I. Pratikakis, K. Zagoris, G. Barlas and B. Gatos, «ICFHR2016 Handwritten Document Image Binarization Contest (HDIBCO 2016) », 2016 15th International Conference on Frontiers in Handwriting Recognition (ICFHR), Shenzhen, pp. 619623, 2016.
4. I. Pratikakis, K. Zagoris, B. Gatos, J. Puigcerver, A. H. Toselli and E. Vidal, «ICFHR2016 Handwritten Keyword Spotting Competition (HKWS 2016) » 2016 15th International Conference on Frontiers in Handwriting Recognition (ICFHR), Shenzhen, pp. 613618, 2016
5. A. Papandreou, B. Gatos and K. Zagoris, "An Adaptive Zoning Technique for Word Spotting Using Dynamic Time Warping", 2016 12th IAPR Workshop on Document Analysis Systems (DAS), Santorini, pp. 387392, 2016.
6. K. Zagoris, I. Pratikakis, and B. Gatos. «A Framework for Efficient Transcription of Historical Documents Using Keyword Spotting», In *Proceedings of the 3rd International Workshop on Historical Document Imaging and Processing (HIP '15)*, Gammarth, Tunisia, 2015.
7. I. Pratikakis, K. Zagoris, B. Gatos, G. Louloudis and N. Stamatopoulos «ICFHR 2014 Competition on Handwritten KeyWord Spotting (HKWS 2014)», 14th International Conference on Frontiers in Handwriting Recognition (ICFHR'14), (814819), 2014
8. K. Zagoris, I. Pratikakis and B. Gatos «Segmentation-based Historical Handwritten Word Spotting using Document-Specific Local Features», 14th International Conference on Frontiers in Handwriting Recognition (ICFHR'14), (914), 2014
9. L. Tsochatzidis, K. Zagoris, M. Savelonas and I. Pratikakis «SVM-based CBIR of breast masses on mammograms», *Proceedings of the 3rd International Workshop on Artificial Intelligence and Assistive Medicine co-located with the 21th European Conference on Artificial Intelligence (ECAI 2014)*, (26 30), 2014
10. Tsochatzidis, Lazaros and Zagoris, Konstantinos and Savelonas, Michalis and Papamarkos, Nikos and Pratikakis, Ioannis and Arikidis, Nikolaos and Costaridou, Lena «Microcalcification oriented content-based mammogram retrieval for breast cancer diagnosis», *Imaging Systems and Techniques (IST)*, 2014 IEEE International Conference on, (257262), 2014
11. K. Zagoris and I. Pratikakis, «Text Detection in Natural Images Using Bioinspired Models», *Document Analysis and Recognition (ICDAR)*, 2013 12th International Conference on, (13701374), 2013
12. V. Virvilis, S. Perantonis, K. Zagoris and I. Pratikakis «A multimodal e-learning environment for orthopedics: design and implementation challenges», *System Theory, Control and Computing (ICSTCC)*, 2013 17th International Conference, (728 732), 2013
13. K. Zagoris, I. Pratikakis, V. Virvilis and P. Perantonis «ORTHO-eMAN: A Web-based e-Training Platform for Orthopedics», *NHIBE – 8th International Conference on New Horizons in Industry, Business and Education*, (97104), 2013
14. K. Zagoris and I. Pratikakis, «Scene Text Detection on Images using Cellular Automata», *ACRI 2012, Cellular Automata for Research and Industry*", Santorini, Greece, September 24 27, 2012.
15. K. Zagoris, I. Pratikakis, A. Antonacopoulos, B. Gatos , N. Papamarkos, «Handwritten and Machine Printed Text Separation in Document Images using the Bag of Visual Words Paradigm», 2012 International Conference on Frontiers in Handwriting Recognition (ICFHR2012), Bari, Italy, September 1820, 2012.
16. L. T. Tsochatzidis, A. Ch. Kapoutsis, N. I. Dourvas, S. A. Chatzichristofis, Y. S. Boutalis and K. Zagoris, «TSOKADO: An Image Search Engine Performing Recursive Query Recommendation Based on Visual Information», *The Fifth International Conference on Advances in Computer-Human Interactions (ACHI 2012)*, pp. 106111, Valencia, Spain, January 30 – February 2, 2012.

17. S. A. Chatzichristofis, K. Zagoris, Y. Boutalis and Avi Arampatzis, «A Fuzzy Rank-Based Late Fusion Method for Image Retrieval», The 18th International Multi-Media Modeling Conference (IMMM), Klagenfurt, Austria, January 46, 2012.

*Publications in Collective Volumes*

1. G. Barlas, K.Zagoris and I.Pratikakis, «Handwritten keyword spotting. The Query by Example (QbE)». Handwriting: Recognition, Development and Analysis. Chapter 11. Nova Science Publishers, Inc., 2017 Jul 21.

*Participation in Scientific and Professional Bodies and Networks*

- Member: Technical Chamber of Greece