

Dr. MICHAEL PANAGOPOULOS (Curriculum Vitae)

PERSONAL INFORMATION

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Date of Birth: 15 August 1977

Nationality: Hellenic

TEACHING EXPERIENCE

IONIAN UNIVERSITY

Corfu, Greece

Assistant Professor, Department of Audio-Visual Arts

August 2016 – Today

- Discipline: Pattern Recognition on Cultural Visual and Artistic Applications
- Teaching Courses:
 - Introduction to Computer Science I (1st Semester),*
 - Introduction to Computer Science II (2st Semester)*
 - Introduction to Programming I (3rd Semester),*
 - Mathematics and Art (1nd Semester),*
 - Digital Synthesis of Virtual Environments (9th Semester),*
 - Mathematics for Audiovisual Arts (4th Semester),*
 - Artificial Intelligence (10th Semester)*
 - Artificial Intelligence in Practice (Postgraduate Program)*
 - Audiovisual Systems for Alternative Reality (Postgraduate Program)*

IONIAN UNIVERSITY

Corfu, Greece

Lecturer, Department of Audio-Visual Arts

January 2014 – August 2016

- Discipline: Pattern Recognition on Cultural Visual and Artistic Applications
- Teaching Courses:
 - Introduction to Computer Science I (1st Semester),*
 - Introduction to Computer Science II (2st Semester)*
 - Introduction to Programming I (3rd Semester),*
 - Mathematics and Art (1nd Semester),*
 - Digital Synthesis of Virtual Environments (9th Semester),*
 - Mathematics for Audiovisual Arts (4th Semester),*
 - Artificial Intelligence (10th Semester)*

IONIAN UNIVERSITY

Corfu, Greece

Adjunct Lecturer, Department of Audio-Visual Arts

October 2008 – December 2012

- Taught Courses:
 - Introduction to Computer Science I (1st Semester),*
 - Introduction to Programming II (3rd Semester),*
 - Website Development (3rd Semester),*
 - Introduction to Computer Science II (2nd Semester),*
 - Introduction to Computer Science II (Lab) (2nd Semester),*
 - 3D Graphics (6th Semester),*
 - Introduction to Programming I (Lab) (2nd Semester),*
 - Mathematics and Art (2nd Semester)*
 - Mathematics for Audiovisual Arts (4th Semester).*

NATIONAL TECHNICAL UNIVERSITY

Athens, Greece

Subsidiary Teaching, School of Electrical and Computing Engineering

February 2004 – June 2008

- Teaching Lessons:
 - Logic Design of Digital Systems (2nd Semester),*

*Digital Systems Lab (4th Semester),
Digital Signal Processing Algorithms (Graduate),
Computer Application Development (2nd Semester - School of Naval Architecture and Marine Engineering)*

CRAM SCHOOL «REMPAMPI»

Athens, Greece
October 2007 - June 2008

- Teaching lesson: Application Development in Programming Environment

CRAM SCHOOL «QUANTUM»

Athens, Greece
October 2007 - June 2008

- Teaching lesson: Application Development in Programming Environment

INSTITUTE OF PROFESSIONAL TRAINING (I.E.K.) KALAMAKIOY

Athens, Greece
October 2004 - June 2006
October 2012 – June 2013

- Teaching Lessons:

*UNIX (3rd Semester specialty «Multimedia Computer Applications Technician»),
2D and 3D Animation – 3D MAX (3rd Semester specialty «Multimedia Computer Applications Technician»),
Data Structures (1st Semester specialty “Multimedia Computer Applications Technician”)
Data Bases (1st Semester specialty “Multimedia Computer Applications Technician”)
Operating Systems (3rd Semester specialties «PC & Office electronic Devices Technician», «Telecommunication & Data Transmission Systems Technician»),
Installations Automatics (3rd Semester, specialties «Air-conditioning installation Technician», «Gas Fuel Technician»),
Microprocessors (Lab and Theory) (2nd Semester, specialties «PC & Office electronic Devices Technician», «Telecommunication & Data Transmission Systems Technician»)
Computer Use (1st Semester & 2nd Semester, specialties «PC & Office electronic Devices Technician», «Telecommunication & Data Transmission Systems Technician»),*

EDUCATION

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

Athens, Greece

PhD Thesis, School of Electrical and Computing Engineering

February 2004 – July 2008

- «Identification of the writer of ancient Greek inscriptions and study of the style that archaeological finds were made of, using novel algorithms of pattern recognition and image processing»

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

Athens, Greece

Diploma of Electrical and Computing Engineering

September 1997 - October 2002

- Flow Computer Systems.
Degree: *Very Good*
- Member of the university water polo club (distinction at the National University Championships)

LYCEE LEONIN N. SMYRNI

Athens, Greece

Apolytirion

June 1995

RESEARCH WORK

Fields of Interest

Application of Digital Signal Processing and Pattern Recognition in Archaeology-Heritage, Arts and Cultural Heritage,
Digital Image and Audio Processing,
Pattern Recognition,
Computer Vision,
Artificial Intelligence

RESEARCH PROGRAMMS

ARISTOTLE UNIVERSITY OF THESSALONIKI

Thessaloniki, Greece
April 2013 – December 2013

- **Advanced Tourism Planning System (ATLAS)**, Artificial Intelligence & Information Analysis Laboratory, Department of Informatics

Publications in Peer Reviewed Journals

- [J1]. Dimitrios Arabadjis, Fotios Giannopoulos, Michail Panagopoulos, Michail Exarchos, Christopher Blackwell, Constantin Papaodysseus, “A general methodology for identifying the writer of codices. Application to the celebrated “twins”, *Journal of Cultural Heritage, Volume 39, Pages 186-201, September - October 2019* <https://www.sciencedirect.com/science/article/abs/pii/S1296207418305119>
- [J2]. C. Papaodysseus, P. Rousopoulos, F. Giannopoulos, S. Zannos, D. Arabadjis, M. Panagopoulos, E. Kalfa, C. Blackwell, S. Tracy, “Identifying the writer of ancient inscriptions and Byzantine codices. A novel approach”, *Computer Vision and Image Understanding, Volume 121, Pages 57-73, April 2014* <http://www.sciencedirect.com/science/article/pii/S1077314214000101>
- [J3]. D. Arabadjis, F. Giannopoulos, C. Papaodysseus, S. Zannos, P. Rousopoulos, M. Panagopoulos, C. Blackwell, “New mathematical and algorithmic schemes for pattern classification with application to the identification of writers of important ancient documents”, *Pattern Recognition, Volume 46, Issue 8, Pages 2278-2296, 2013.* <http://www.sciencedirect.com/science/article/pii/S0031320313000563>
- [J4]. C. Papaodysseus, D. Arabadjis, M. Exarchos, P. Rousopoulos, S. Zannos, M. Panagopoulos, L. Papazoglou-Manioudaki, “Efficient solution to the 3D problem of automatic wall paintings reassembly”, *Computers and Mathematics with Applications, Volume 64, Issue 8, Pages 2712-2734, 2012* <http://www.sciencedirect.com/science/article/pii/S0898122112005147>
- [J5]. Dimitris Arabadjis, Panayiotis Rousopoulos, Constantin Papaodysseus, Michalis Exarhos, Michail Panagopoulos, *Member IEEE*, and Lena Papazoglou-Manioudaki, "Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall-Paintings", *IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 33, Issue 11, Page(s): 2229-2244, November, 2011* [Impact Factor: 4,378 (ISI Web of Knowledge)] http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5740922
- [J6]. P. Rousopoulos, C. Papaodysseus, D. Arabadjis, M. Exarhos, M. Panagopoulos, “Reconstruction of c.1650 B.C. Fragmented Wall Paintings by Exploitation of the Thematic Content”, *International Journal of Imaging and Robotics, 5- (11), pp. 1-7, 2011* <http://ceser.in/ceserp/index.php/iji/article/view/1096>
- [J7]. Roussopoulos P., Papaodysseus C., Arabadjis D., Exarhos M., and Panagopoulos M., “Image and pattern analysis for the determination of the method of drawing celebrated thera wall-paintings circa 1650 B.C.” *ACM, Journal on Computing and Cultural Heritage, Vol. 3, Issue 2, p.p. 1-21, Sep. 2010* <http://portal.acm.org/citation.cfm?id=1841318>
- [J8]. D. Arabadjis, C. Papaodysseus, P. Rousopoulos, M. Panagopoulos “On The Mathematical Formulation Of The Problem Of Reassembling Fragmented Objects: Two New Theorems”, *Journal of Applied Mathematics and Computing (Springer), Volume 34, Numbers 1-2, 81-100, 2010* <http://www.springerlink.com/content/75mq4q8734719387/>
- [J9]. M. Panagopoulos, C. Papaodysseus, P. Roussopoulos, D. Dafi, S. Tracy “Automatic writer identification of ancient Greek inscriptions” *IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 31,*

Issue 8, Page(s): 1404-1414, August, 2009 [Impact Factor: 4,378 (ISI Web of Knowledge)]
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4586391

- [J10]. Arabadjis D, Rousopoulos P, Papaodysseus C, Panagopoulos M, Loumou P, Theodoropoulos G, “A General Methodology for the Determination of 2D Bodies Elastic Deformation Invariants. Application to the Automatic Identification of Parasites”, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Volume 32, Issue 5, Page(s): 799-814, May, 2009 [Impact Factor: 4,378 (ISI Web of Knowledge)]
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4815258&tag=1
- [J11]. C. Papaodysseus, M. Exarhos, M. Panagopoulos, P. Roussopoulos, C. Triantafyllou, Th. Panagopoulos “Image and Pattern Analysis for 1650 B.C.Wall Paintings Study And Reconstruction”, *IEEE Transactions on Systems Man and Cybernetics, Part A: Systems and Humans*, Volume: 38, Issue: 4, July 2008 [Impact Factor: 2,03 (ISI Web of Knowledge)] http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4544885
- [J12]. C. Papaodysseus., M. Panagopoulos, P. Rousopoulos, G. Galanopoulos & C. Doumas “Geometric templates used in the Akrotiri (Thera) wall-paintings” *Antiquity*, Volume 82, Number 316, Page 401-408, 2008 [Impact Factor: 1,065 (ISI Web of Knowledge)] <http://antiquity.ac.uk/ant/082/ant0820401.htm>
- [J13]. St. Tracy, C. Papaodysseus, P. Rousopoulos, M. Panagopoulos, D. Fragoulis, D.Dafi, Th. Panagopoulos. “Identifying Hands on Ancient Athenian Inscriptions: First Steps towards a Digital Approach”. *Archaeometry* Vol. 49 Issue 4 Page 749 November 2007 [Impact Factor: 1,355 (ISI Web of Knowledge)]
<http://onlinelibrary.wiley.com/doi/10.1111/j.1475-4754.2007.00333.x/abstract>
- [J14]. C. Papaodysseus, D. K. Fragoulis, M. Panagopoulos, T. Panagopoulos, P. Rousopoulos, M. Exarhos, and A. Skembris “Determination of the Method of Construction of 1650 B.C. Wall Paintings”, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 28, NO. 9, September 2006 [Impact Factor: 4,378 (ISI Web of Knowledge)]
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1661540&tag=1
- [J15]. D. Fragoulis., A. Skembris., C. Papaodysseus., P. Rousopoulos. , Th. Panagopoulos., M. Panagopoulos., C. Triantafyllou. , A. Vlachopoulos And C. Doumas “Origins and Application of Geometry in the Thera Prehistoric Civilization Ca. 1650 BC”, *Centaurus* 2005: VOL. 47: PP. 316–340
<http://onlinelibrary.wiley.com/doi/10.1111/j.1600-0498.2005.00029.x/abstract>
- [J16]. D. Fragoulis, M. Exarhos., C. Papaodysseus., A. Skembris, P. Roussopoulos, M. Panagopoulos, G. Roussopoulos, Th. Panagopoulos, “A General Methodology for Timbre Determination and Identification with Application to Sax – Flute”, *WSEAS Transactions on Acoustics and Music*, Issue 1, Vol.2, ISSN: 1109-9577, pp. 38-42, January 2005

Conferences

- [C1] Fotios Giannopoulos, Dimitris Arabadjis, Kyveli Kampouri, Panagiota Tsakalidou, Constantin Papaodysseus, Michail Panagopoulos, “A Novel Approach and the Related Information System for the Identification of the Writer of Historical Documents”, In: *Koui M., Zezza F., Kouis D. (eds) 10th International Symposium on the Conservation of Monuments in the Mediterranean Basin. MONUBASIN 2017. Springer, Cham*
- [C2] Panagiota Tsakalidou, Dimitris Arabadjis, Constantin Papaodysseus, Michalis Exarhos Panayiotis Rousopoulos, Fotios Giannopoulos, Evangelos Fotopoulos, Michail Panagopoulos, “Advanced Geometric Guides Were Used for the Drawing of Celebrated Late Bronze Age Wall Paintings”, In: *Koui M., Zezza F., Kouis D. (eds) 10th International Symposium on the Conservation of Monuments in the Mediterranean Basin. MONUBASIN 2017. Springer, Cham*
- [C3] Michail Panagopoulos and Constantine Kotropoulos, “Image tagging using tensor decomposition”, *International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Corfu, Greece, July 6-8, 2015.*
- [C4] Michail Panagopoulos, Dimitris Arabadjis, Panayiotis Rousopoulos, Michalis Exarhos, Constantin Papaodysseus, “Identifying patterns on prehistoric wall paintings: A new curve fitting approach”, *43rd Conference in Computer Applications and Quantitative Methods in Archaeology, Sienna, Italy, 2015.*
- [C5] M. Panagopoulos, P. Rousopoulos, D. Arabadjis, M. Exarhos, and C. Papaodysseus, “Methods and Algorithms for the Automatic Identification of Writer of Ancient Documents”, in *Proceedings of the 1st Conference on Computer Applications and Quantitative Methods in Archaeology Greek Chapter (CAA-GR), Rethymno, Crete, 2014.*

- [C6] D. Arabadjis, C. Papaodysseus, S. Zannos, F. Giannopoulos, E. Kalfa, P. Rousopoulos, M. Panagopoulos, C. Blackwell, "A new approach for the identification of writers of important ancient documents", *IEEE Proceedings of DSP 2013, Santorini, 2013*
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6622801&tag=1
- [C7] P. Rousopoulos, M. Panagopoulos, C. Papaodysseus, F. Panopoulou, D. Arabadjis, S. Tracy, F. Giannopoulos, S. Zannos, "A New Approach For Ancient Inscriptions' Writer Identification", *IEEE Proceedings of DSP 2011, Corfu, 2011* http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6004966
- [C8] Constantin Papaodysseus, Panayiotis Rousopoulos, Dimitris Arabadjis, Fivi Panopoulou, Michalis Panagopoulos, "Handwriting Automatic Classification: Application to Ancient Greek Inscriptions", *IEEE 2010 International Conference on Autonomous and Intelligent Systems, AIS 2010*, art. no. 5547045
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5547045
- [C9] M. Panagopoulos, P. Roussopoulos, D. Arabadjis, C. Papaodysseus, "Information system for graphological identification", *IEEE Society Proceedings of Panhellenic Conference on Informatics, Corfu 2009*,
<http://www.computer.org/portal/web/csdl/doi/10.1109/PCI.2009.23>
- [C10] Panayiotis Rousopoulos, Dimitris Arabadjis, Michalis Panagopoulos, Constantin Papaodysseus, Elena Papazoglou, "Determination of the Method of Drawing of Prehistoric Wall-Paintings via Original Methods of Pattern Recognition and Image Analysis", *IEEE International Conference on Image Processing, Cairo, Egypt, 2009* http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5413987
- [C11] M. Panagopoulos, P. Roussopoulos, C. Papaodysseus, D. Arabadjis, G. Galanopoulos and St. Tracy «An information system for graphological identification of writers of ancient Greek inscriptions» *5ο Συμπόσιο Αρχαιομετρίας της Ελληνικής Αρχαιομετρικής Εταιρείας, Αθήνα, Οκτώβριος 2008*
- [C12] D. Arabadjis, P. Rousopoulos, C. Papaodysseus, M. Panagopoulos, P. Loumou, G. Theodoropoulos «Determination of the Mechanoelastic Properties of Parasites via Analysis of their Microscopic Images» *IEEE International Conference on Bioinformatics and Bioengineering, Athens, October 2008*,
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4696804
- [C13] C. Papaodysseus, D. Arabadjis, M. Panagopoulos, P. Rousopoulos, M. Exarhos and E. Papazoglou «Automated Reconstruction of Fragmented Objects Using Their 3D Representation - Application to Important Archaeological Finds» *IEEE 9th International Conference on Signal Processing (ICSP'08), Beijing, October 2008*,
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5413987
- [C14] Κ. Παπαοδυσσεύς, Π. Ρουσόπουλος, Μ. Παναγόπουλος, Γ. Γαλανόπουλος, Δ. Φραγκούλης, Θ. Παναγόπουλος, Κ. Τριανταφύλλου «Εφαρμογή Προηγμένων Μεθόδων Επεξεργασίας Εικόνας, Αναγνώρισης Προτύπων και Πληροφορικής σε Αρχαιολογικά Ευρήματα», *Ημερίδα 'Οι Νέες Τεχνολογίες στα Μουσεία' Ελληνική Ομοσπονδία Σωματείων Φίλων των Μουσείων, Αθήνα, Ιούνιος 2007*
- [C15] Κ. Παπαοδυσσεύς, Μ. Παναγόπουλος, Π. Ρουσόπουλος, «Ανάπτυξη Μεθόδων Ψηφιακής Επεξεργασίας Εικόνων και Αναγνώρισης Προτύπων και Εφαρμογής τους σε Αρχαιολογικά Ευρήματα» *Ημερίδα 'Οι Νέες Τεχνολογίες στις Αρχαιογνωστικές Επιστήμες', Ρόδος, Οκτώβριος 2006*
- [C16] Κ. Παπαοδυσσεύς, Αθ. Παναγόπουλος, Γ. Ρουσόπουλος, Δ. Φραγκούλης, Μ. Παναγόπουλος, Α. Σκέμπρης, Π. Ρουσόπουλος, Γ. Γαλανόπουλος «Προηγμένα Γεωμετρικά Πρότυπα στις Τοιχογραφίες του Προϊστορικού Οικισμού Ακρωτηρίου Σαντορίνης», *2ο Διεθνές Συνέδριο Αρχαίας Ελληνικής Τεχνολογίας ΤΕΕ, Οκτώβριος 2005*
- [C17] D. Fragoulis, M. Exarhos, C. Papaodysseus, A. Skembris, P. Roussopoulos, M. Panagopoulos, and G. Roussopoulos, "Determination and Automated Classification of Sax-Flute Timbre," in *6th WSEAS Int. Conf. on Acoustics and Music: Theory and Applications (AMTA '05), 2005*

Selected Citations

J2

1. A. Haliassos, P. Barmpoutis, T. Stathaki, S. Quirke, A. Constantinides, F. Liarokapis, A. Voulodimos, N. Doulamis, and A. Doulamis, "Classification and Detection of Symbols in Ancient Papyri," in *Visual Computing for Cultural Heritage*, , Eds. Cham: Springer International Publishing, 2020, pp. 121–140.C.
2. De Stefano, M. Maniaci, F. Fontanella, and A. Scotto di Freca, "Reliable writer identification in medieval manuscripts through page layout features: The 'Avila' Bible case," *Engineering Applications of Artificial Intelligence*, vol. 72, pp. 99–110, Jun. 2018, doi: 10.1016/j.engappai.2018.03.023.

3. V. Aubin, M. Mora, and M. Santos-Peñas, "Off-line writer verification based on simple graphemes," *Pattern Recognition*, vol. 79, pp. 414–426, Jul. 2018.
4. S. He, P. Samara, J. Burgers, and L. Schomaker, "Image-based historical manuscript dating using contour and stroke fragments," *Pattern Recognition*, vol. 58, pp. 159–171, Oct. 2016.
5. B. Sober and D. Levin, "Computer Aided Restoration of Handwritten Character Strokes," *arXiv:1602.07038 [cs, math]*, Feb. 2016.
6. S. He, P. Samara, J. Burgers, and L. Schomaker, "Historical manuscript dating based on temporal pattern codebook," *Computer Vision and Image Understanding*, vol. 152, pp. 167–175, Nov. 2016.
7. Aswatha, S.M., Talla, A.N., Mukhopadhyay, J., Bhowmick, P., "A Method for Extracting Text from Stone Inscriptions Using Character Spotting", in: *Jawahar, C.V., Shan, S. (Eds.), Computer Vision - ACCV 2014 Workshops, Lecture Notes in Computer Science. Springer International Publishing*, pp. 598–611, 2014

J3

8. A. Chahi, Y. El merabet, Y. Ruichek, and R. Touahni, "Cross multi-scale locally encoded gradient patterns for off-line text-independent writer identification," *Engineering Applications of Artificial Intelligence*, vol. 89, p. 103459, Mar. 2020, doi: 10.1016/j.engappai.2019.103459.
9. Y. Hannad, I. Siddiqi, C. Djeddi, and M. E.-Y. El-Kettani, "Improving Arabic writer identification using score-level fusion of textural descriptors," *IET Biometrics*, vol. 8, no. 3, pp. 221–229, Jan. 2019.
10. A. Chahi, Y. El merabet, Y. Ruichek, and R. Touahni, "An effective and conceptually simple feature representation for off-line text-independent writer identification," *Expert Systems with Applications*, vol. 123, pp. 357–376, Jun. 2019.
11. P. Singh, P. P. Roy, and B. Raman, "Writer identification using texture features: A comparative study," *Computers & Electrical Engineering*, vol. 71, pp. 1–12, Oct. 2018.
12. A. Chahi, I. El khadiri, Y. El merabet, Y. Ruichek, and R. Touahni, "Block wise local binary count for off-Line text-independent writer identification," *Expert Systems with Applications*, vol. 93, pp. 1–14, Mar. 2018.
13. Hannad, Y., Siddiqi, I., El Kettani, M.E.Y., "Writer identification using texture descriptors of handwritten fragments", *Expert Systems with Applications* 47, 14–22. doi:10.1016/j.eswa.2015.11.002, 2016

J4

14. M. Sbroscia et al., "Multi-analytical non-destructive investigation of pictorial apparatuses of 'Villa della Piscina' in Rome," *Microchemical Journal*, vol. 153, p. 104450, Mar. 2020, doi: 10.1016/j.microc.2019.104450.
15. Pintus, R., Pal, K., Yang, Y., Weyrich, T., Gobbetti, E., Rushmeier, H., "A Survey of Geometric Analysis in Cultural Heritage". *Computer Graphics Forum*, 2015
16. A. Schäfer, G. Bock, J. Sanday, and H. Lette, "Virtually reassembling Angkor-style Khmer temples," *Digital Applications in Archaeology and Cultural Heritage*, vol. 2, no. 1, pp. 2–11, 2015.
17. M. J. N. Nada A Rasheed, "A Survey of Computer Methods in Reconstruction of 3D Archaeological Pottery Objects," *International Journal of Advanced Research*, vol. 3, no. 3, pp. 712–714, 2015.
18. Altantsetseg Enkhbayar, Matsuyama Katsutsugu, Konno Kouichi, "Pairwise matching of 3D fragments using fast fourier transform", *The Visual Computer*, Springer Berlin Heidelberg, 1-10, 2014
19. R. Pintus and Dellepiane, Matteo, "Geometric Analysis in Cultural Heritage," in *12th EUROGRAPHICS Workshop on Graphics and Cultural Heritage (GCH)*, 2014.
20. L. S. Yu, H. J. Ku, C. L. Ting, R. I. Chang, Y. C. Wang, and J. M. Ho, "Content-Based Feature Matching for Fragment Reassembly of Ceramic Reconstruction," in *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*, vol. 3, pp. 344–351, 2014.

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21. Md Jan Nordin and Nada A. Rasheed, "Reconstruction of Ancient Two-Dimensional Objects," *Int'l Journal of Computing, Communications & Instrumentation Engg. (IJCCIE)*, vol. 3, no. 2, pp. 224–228, 2016.
22. Kotoula, Eleni, "Semiautomatic Fragments Matching And Virtual Reconstruction: A Case Study On Ceramics.," *International Journal of Conservation Science*, vol. 7, no. 1, pp. 71–86, Mar. 2016.
23. N. A. Rasheed and M. J. Nordin, "A survey of classification and reconstruction methods for the 2D archaeological objects," in *2015 International Symposium on Technology Management and Emerging Technologies (ISTMET)*, pp. 142–147, 2015.
24. Nada A Rasheed, M.J.N., "Archaeological Fragments Classification Based On RGB Color and Texture Features", *Journal of Theoretical and Applied Information Technology*, Vol 76, 3, 358–365, 2015.

J7

25. A. Burcoff and L. Shamir, "Computer Analysis of Pablo Picasso's Artistic Style," *International Journal of Art, Culture and Design Technologies (IJACDT)*, vol. 6, no. 1, pp. 1–18, Jan. 2017.
26. L. Shamir, J. Nissel, and E. Winner, "Distinguishing Between Abstract Art by Artists vs. Children and Animals: Comparison Between Human and Machine Perception," *ACM Trans. Appl. Percept.*, vol. 13, no. 3, p. 17:1–17:17, May 2016.
27. L. Shamir, "What makes a Pollock Pollock: a machine vision approach," *International Journal of Arts and Technology*, vol. 8, no. 1, pp. 1–10, Jan. 2015.
28. S. Kaur and A. Kaur, "Restoration of Historical Wall Paintings Using Improved Nearest Neighbour Algorithm," *International Journal Of Engineering And Computer Science*, vol. 3, no. 12, pp. 9581–9586, Dec. 2014
29. Shamir, L., Tarakhovsky, J.A., "Computer analysis of art", *Journal of Computing and Cultural Heritage*, Volume 5, Issue 2, art. no. 7, ACM, July 2012

J8

30. M. J. N. Nada A Rasheed, "A Survey of Computer Methods in Reconstruction of 3D Archaeological Pottery Objects," *International Journal of Advanced Research*, vol. 3, no. 3, pp. 712–714, 2015.

J9

31. S. Faigenbaum-Golovin, A. Shaus, B. Sober, E. Turkel, E. Piasezky, and I. Finkelstein, "Algorithmic handwriting analysis of the Samaria inscriptions illuminates bureaucratic apparatus in biblical Israel," *PLOS ONE*, vol. 15, no. 1, p. e0227452, Jan. 2020, doi: 10.1371/journal.pone.0227452.
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33. Pandey P., Seeja K.R., "Forensic Writer Identification with Projection Profile Representation of Graphemes". In: Somani A., Srivastava S., Mundra A., Rawat S. (eds) *Proceedings of First International Conference on Smart System, Innovations and Computing. Smart Innovation, Systems and Technologies*, vol 79. Springer, Singapore 2018.
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36. A. J. Newell and L. D. Griffin, "Writer identification using oriented Basic Image Features and the Delta encoding," *Pattern Recognition*, vol. 47, no. 6, pp. 2255–2265, Jun. 2014.
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- ΨΗΦΙΑΚΗ ΣΧΕΔΙΑΣΗ Δ'ΕΚΔΟΣΗ, Morris Mano, Εκδόσεις Παπασωτηρίου, 2009
Scientific review of the Greek edition of the book “DIGITAL DESIGN”, M. Morris Mano, Michael D. Ciletti, 4th Edition, Prentice Hall
- ΨΗΦΙΑΚΗ ΣΧΕΔΙΑΣΗ Ε'ΕΚΔΟΣΗ, Morris Mano, Michael Ciletti, Εκδόσεις Παπασωτηρίου, 2013
Scientific review of the Greek edition of the book “DIGITAL DESIGN”, M. Morris Mano, Michael D. Ciletti, 5th Edition, Prentice Hall

BOOK CHAPTERS

- 1) Chapter title: “Chapter 7: Automatic Identification of the Writer of Ancient Greek Inscriptions, Employing Methods of Computer Engineering and Mathematics”, Constantin Papaodysseus, Michail Panagopoulos, Panayotis Rousopoulos, Dimitris Arabadjis, Fivi Panopoulou, Solomon Zannos, Fotios Giannopoulos, Steven Tracy, Book: “Pattern Recognition and Signal Processing in Archaeometry: Mathematical and Computational Solutions for Archaeology”, IGI Global - Hershey, PA, USA, 2012
- 2) Chapter title: “Chapter 3: A Digital Investigation Manifesting use of Geometric Stencils for the Drawing of Akrotiri Thera Prehistoric Wall Paintings”, Panayotis Rousopoulos, Dimitris Arabadjis, Mihalis Exarhos, Michail Panagopoulos, Georgios Galanopoulos, Afroditi Pantazi, Constantin Papaodysseus, Book: “Pattern Recognition and Signal Processing in Archaeometry: Mathematical and Computational Solutions for Archaeology”, IGI Global - Hershey, PA, USA, 2012
- 3) Chapter title: «Chapter XXIII: Automatic Identification and Elastic Properties of Deformed Objects Using their Microscopic Images», τίτλος βιβλίου: «Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical Applications», εκδότης : «Medical Information Science Reference », 2009, συγγραφείς: C. Papaodysseus, P. Roussopoulos, D. Arabadjis, M. Panagopoulos, P. Loumou, G. Theodoropoulos.

WORKSHOPS

Participation at Dagstuhl Perspectives Workshop: “Computation and Paleography: Potentials and Limits”, *Dagstuhl* 18-21/9/2012, <http://drops.dagstuhl.de/opus/volltexte/2013/3890/>

CONFERENCE ORGANAZATION

- President of the 2nd International Conference on Digital Culture & Audiovisual Challenges, Corfu 2019
- President of the 1st International Conference on Digital Culture & Audiovisual Challenges, Corfu 2018
- Interdisciplinary Conference on “TABOO - TRANSGRESSION – TRANSCENDENCE in Art & Science”, Corfu, May 2017, <https://avarts.ionio.gr/ttt/2017/gr/>, - Organizing committee

- 17th International Conference on “Digital Signal Processing”, Corfu, July 2011, <https://conferences.ionio.gr/dsp2011/> - Organizing committee

ADMINISTRATION

- President of the 2nd International Conference on Digital Culture & Audiovisual Challenges 2019
- President of the 1st International Conference on Digital Culture & Audiovisual Challenges 2018
- Member of the Internship Committee of the Department of Audio and Visual Arts
- Member of the Coordination Committee of the Postgraduate Program “Audiovisual Arts at the Digital Era” <http://avarts.ionio.gr/ada/studies/committees/>
- President of the Ionian University Faculty Members Union (2016-2017)
- General Secretary of the Ionian University Faculty Members Union (2015-2016)

SCHOLARSHIPS – GRANTS

- ICCS (Institute of Communication and Computing Systems) Scholarship, years 2005-2008.
- John S. Latsis Public Benefit Foundation Grant for the original research project «Writer identification of ancient Greek inscriptions» (chosen, along with other 12, amongst 713 proposals).

LABORATORIES

- Organization of lab exercises for Microprocessors (I.E.K. Kalamakiou).
- Lab exercises for *Computer Application Development* Laboratory (School of Naval Architecture and Marine Engineering, NTUA)
- Lab exercises for *Introduction to Computer Science II* and *Introduction to Programming I* laboratories (Department of Audiovisual Arts, Ionian University).

MILITARY SERVICE

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MEMBERSHIPS

- Member of Technical Chamber of Greece (Membership Number: 97312)
- Member of *IEEE (Institute of Electrical and Electronics Engineers)* Membership Number: 90740914
- Member of *IEEE Computational Intelligence Society*
- Member of *IEEE Computer Society*

OTHER QUALIFICATIONS

- *Foreign Languages:* English (fluent), French (fluent).
- Water Polo Greek National Junior Champion, Vouliagmeni Nautical Club
- Car and Motorcycle Driving License
- Scuba Diving License

- Athens Classic Marathon finisher (2012)

SEMINARS

- Free University – Dimitri Nanopoulos: “Ten lesson on Cosmology”
- Free University – Marina Labraki Plaka: “History of Art”
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