



**Dr. Nikos Papadopoulos**  
Geologist-Geophysicist (BA, MSc, PhD)

Assistant Researcher

*Lab of Geophysical Remote Sensing & Archaeoenvironment*  
Institute for Mediterranean Studies (IMS)

Foundation of Research and Technology - Hellas (FORTH)

Melissinou & Nikiforou Foka 130,  
P.O. Box. 119

**Rethymno 74100, Crete, Greece**

E-mail: nikos@ims.forth.gr

Tel.: (+30) 28310 25146, 56627, Fax: (+30) 28310 25810

Mob: (+30) 6974 823303

Place of Birth: Heraklion, Crete, Greece

Date of birth: 29 November 1978

Nationality: Greek

Family Status: Married with one child

**Education:**

2003-2007: PhD in Applied Geophysics, School of Geology, Aristotle University of Thessaloniki, Greece (*in collaboration with the IMS/FORTH*)

2001-2003: MSc in Applied Geophysics, School of Geology, Aristotle University of Thessaloniki, Greece

1997-2001: BA in Geology, School of Geology, Aristotle University of Thessaloniki, Greece

**Previous Employment/Occupation:**

2012-today: Assistant Researcher IMS/FORTH

2009-2012: Junior Researcher IMS/FORTH

2008-2009: Post Doctorate Researcher, Korean Institute of Geosciences and Mineral Resources, Daejeon, South Korea

2007-2008: Military Service in the Greek Army

2003-2007: Research Assistant, Lab. of Geophysical-Remote Sensing & Archaeoenvironment, FORTH/IMS

2002-2009: Free profession as a geologist

**Research Activities:**

Geology, Applied Geophysics & Remote Sensing. Development of 2D/3D resistivity inversion algorithms. Geophysical Prospection methods for of archaeological, geological, geotechnical and environmental applications. Signal Processing, mapping and modelling. Application of Geo-Information Systems in the Environmental research.

**Participation in Research Projects:**

- ARCIMEDES, THALES, LIFE+, Archaeolandscapes Europe, Wenner-Gren, NSF, STAR-LAB, SERISK, LIFE, ALERT, CRINNO, DIGITAL CRETE, GEOWATERS
- Organizing and participation in more than 60 Geophysical Prospection Surveys for archaeological, environmental and hydrogeological applications in Greece, Cyprus, Hungary, S. Korea
- 20 collaborations with national and international university and research foundations from Australia, Turkey, Belgium, Hungary, Cyprus, S. Korea, USA, Sweden, France, Italy, Iceland, Lithuania etc,

**Conference Participation/Attendance:**

Presentation of 31 Oral and 18 Poster communications in 27 international conferences.

12th Cretological Conference 2011, XVI World Congress of UISPP, Florianópolis, Brasi 2011; 9th International Conference on Archaeological Prospection, Izmir 2011; International Congress "Cultural hertiage and new technologies, Vienna 2009; 8th International Conference on Archaeological Prospection & 7th Colloque GEOFCAN, Memoire duSol, Espace des Hommes, Paris, France 2009; CPS/SEG Beijing 2009 International Geophysical Conference and Exposition 2009; 8th Meeting of the Korean Society of Exploration Geophysicists 2008; 12th European Meeting of Environmental and Engineering Geophysics 2006

### Teaching Activities:

September 2012: Remote Sensing Techniques in Archaeological Research. International Technical Workshop, Responsible of the Resistivity Module (forthcoming)

April 2011: 10-day seminars in geophysical prospection and satellite remote sensing under the framework of Wenner-Gren Project to Hungarian archaeologists

2003-today: Supervising undergraduate and graduate diploma theses of students from university of Crete, University of Thessaly and Technological Institute of Crete

2002: Supervising students of the Geology School (Univ. of Thessaloniki) during the field geophysical exercises.

### Invited Lectures:

- **Papadopoulos, N.G.** 3D Mapping of archaeological structures by means of inversion of surface electrical resistivity data. *KIGAM, Daejeon, S. Korea, 21<sup>st</sup> July 2008.*
- **Papadopoulos, N.G.** Contribution of surface 3D Electrical Resistivity Tomography in Imaging Buried Antiquities. *KIGAM, Daejeon, S. Korea, 6<sup>th</sup> December 2008.*
- **Papadopoulos, N.G.** Geophysical Investigations of Archaeological Sites by Means of Surface 3D Electrical Resistivity Tomography. *Busan National University, S. Korea, 26<sup>th</sup> November 2008.*
- **Papadopoulos, N.G.** The Geophysical Method of 3-D Electrical Resistivity Tomography: Theory and Applications. Department of Applied Mathematics, University of Crete, *23 February 2010.*

### Professional Affiliations:

Member of Society of Exploration Geophysicists (SEG), European Association of Geoscientists and Engineers (EAGE), the International Society of Archaeological Prospection (ISAP)

### Other scientific activities:

1. Participation of the Review Committees of: Geophysics, Geophysical Journal International, Journal of Applied Geophysics, Geophysical Journal International, Near Surface Geophysics, Journal of Environmental Geology, International Journal of Physical Sciences, Sensors, Journal of Archaeological Science
2. Associate Editor of the *Archaeo-Tilepiskopika Nea* published by IMS.
3. Member of the Organizing Committee of the 13th International Conference of the Greek Geological Society
4. Supervisor in 2 diploma thesis and co-supervision in one Graduate thesis

### Computer skills

- Operating Systems: MS Windows
- Programming Languages: C, FORTRAN, MATLAB
- Scientific Softwares: Surfer, Grapher, ArcGIS, CorelDraw

### Scholarships/Awards:

2012-2013: Award of a Fulbright Research Scholar grant to conduct research and/or lecture in the United States in academic year 2012-2013.

2009 : Award for the best poster presentation of paper 60 (3D Inversion of Automated Resistivity Profiling (ARP) Data, Papadopoulos, et al, 2009,

2002-2006: Scholarship from Greek Foundation of National Scholarships

2003-2006: Scholarship to young researcher by Foundation for Research and Technology Hellas

### Community Service:

2009-present: Member of Technical Committee of FORTH

2001-present: Member of the Geotechnical Chamber of Greece

### Publications:

MSc Thesis, PhD Thesis, 1 chapter in book, 14 peer-reviewed journal papers, 17 refereed papers in books of proceedings, 23 extended abstracts, 25 Technical Reports, 4 Invited Lectures, 132 citations.

In preparation and submitted for publication: 5 papers in peer-review journals, 10 in conference proceedings, 2 extended abstracts

## Publications

### PhD Thesis

1. **Papadopoulos N.G. (2007)**. Development of algorithms for the three dimensional inversion of geoelectrical data collected from archaeological sites. *Thesis for the diploma of Doctor of Philosophy of the Department of Geophysics, School of Geology, Aristotle University of Thessaloniki. pg 252 (in greek). (4 citations)*

### 4.2 Chapters in Books

- 4.2.1. G.N. Tsokas, P.I. Tsourlos & **N. Papadopoulos** (2008). Electrical resistivity tomography: A flexible technique in solving problems of archaeological research. Seeing the Unseen – Campana & Piro (eds), © 2008 Taylor & Francis Group, London, ISBN 978-0-415-44721-8.

### 2012+ (Under Preparation & submitted for publication in journals and conference proceedings, extended abstracts)

#### in peer review journals

- 1.1. Vargemezis G., Tsourlos P., Stampolidis A., Fikos I., Ballas, D. and **Papadopoulos, N.G (2011)**. Ground Water Detection by Means of Electrical and EM Methods: The Case of Paliouri, Northern Greece (submitted to Near Surface Geophysics).
- 1.2. Shahrukh, M., Soupios, P., **Papadopoulos N.G.**, Sarris, A., Koulakov, L. (2011). Shallow geophysical investigations at the Istron archaeological site, eastern Crete, Greece using 3D Refraction Seismic and Geoelectrical Tomography. (submitted to Journal of Applied Geophysics)
- 1.3. Giannakis, H., Tsourlos, P., **Papadopoulos, N.G.** and Papazachos, C.B. (2011). Detection of Borehole Electrode Displacements in Direct Current Electrical Resistivity Tomography Method (submitted to Geophysical Journal International)
- 1.4. Sarris A., **Papadopoulos N.G.**, Athos Agapiou, Maria Cristina Salvi, Diofantos G. Hadjimitsis, William A. Parkinson, Richard W. Yerkes & Attila Gyucha (2012). Fusion of geophysical surveys, ground hyperspectral measurements, aerial and satellite imagery for archaeological prospection of Neolithic sites: the case study of Vészto-Mágor Tell, Hungary (Submitted to Journal of Archaeological Science).
- 1.5. Seferou, Evi, Pantelis M Soupios, Nektarios Kourgialas, Zoi Dokou, George Karatzas, Emin Candasayar, **Nikos Papadopoulos**, Vassilis Dimitriou, Apostolos Sarris, Martin Sauter (2012). Olive oil mill waste transport in unsaturated and saturated laboratory conditions using geophysical techniques and the FEFLOW model (submitted to Journal of Contaminant Hydrology).

#### in conference proceedings

- 2.1. **N.G. Papadopoulos**, A. Sarris, Ch. Fasoulas, G. Illiopoulos and H. Hamdan (2005). Contribution of Geophysical Investigations in the Paleontological Research for the recovery of *Deinotherium giganteum* from Siteia, Crete. 6<sup>th</sup> European Geoparks Network Meeting, Lesvos Island-Greece, 5-8 October 2005.
- 2.2. **N. Papadopoulos**, A. Sarris, S. Theodoropoulos, L. Kokkinaki, E. Seferou, A. Kydonakis. Advanced GEO-INFORMATION technologies and 3-D MODELING RECONSTRUCTIONS in cultural resources management (2009). STACHEM-LinkSCEEM joint meeting, Amman, Jordan, 2009 (in press).
- 2.3. **N. Παπαδόπουλος**, Α. Σαρρής, Σ. Θεοδωρόπουλος, Ε. Σεφέρου, Λ. Κοκκινάκη & Α. Κυδωνάκης (2010), Εφαρμογές Γεωπληροφορικής Και Τρισδιάστατης Μοντελοποίησης Για Την Ανάδειξη Και Διατήρηση Της Πολιτιστικής Κληρονομιάς, Αρχαιομετρικές εφαρμογές στην Ελλάδα, Αρχαιολογικό Μουσείο Θεσ/κης, 2010.
- 2.4. **Papadopoulos, N.G.**, Sarris, A., Salvi, M.C. and Dederix, S., (2011). Preservation Assessment of Ancient Theatres through Integrated Geophysical Technologies, XVI World Congress of UISPP, Florianópolis, Brasil, 2011.
- 2.5. Sarris, A, **Papadopoulos, N.**, Salvi, M.C., Seferou, E., Agapiou, A. & Iacovou, M. Mapping the Archaeological Landscape of Palaepaphos Through Remote Sensing Techniques, XVI World Congress of UISPP, Florianópolis, Brasil, 2011.
- 2.6. Sarris, A. and **Papadopoulos, N.**, Geophysical Surveying in Urban Centers of Greece. 15th International Congress “Cultural Heritage and New Technologies”, Vienna, 2011.
- 2.7. **Papadopoulos, N.G.**, Sarris, A., Seferou, P., Kokkinou, E., Papadopoulos, E., P. Soupios (2011) Geophysical Prospection of Archaeological Areas in Urban Centers of Crete, 12th International Cretological Conference, Rethymno, 2011 (in press).
- 2.8. Angelos Chliaoutakis, Aris Kydonakis, Maria K. Doula, Victor A. Kavvadias, Apostolos Sarris & **Nikos Papadopoulos** (2012). Geospatial tools for olive oil mills' wastes (OOMW) disposal areas management. 32nd EARSeL Symposium, Advances in Geosciences, Mykonos Island, 21-24 May 2012.
- 2.9. Αντίκλεια Μουνδρέα-Αγραφιώτη, Απόστολος Σαρρής & **Νίκος Παπαδόπουλος** (2012). Η Συμβολή των

Γεωφυσικών Διασκοπήσεων στην Αρχαιολογική Έρευνα της Μαγούλας Ζερέλια, Δήμος Αλμυρού. 4ο ΑΡΧΑΙΟΛΟΓΙΚΟ ΕΡΓΟ ΘΕΣΣΑΛΙΑΣ ΚΑΙ ΣΤΕΡΕΑΣ ΕΛΛΑΔΑΣ 2009-2011, Βόλος 16-18 Μαρτίου 2012.

- 2.10. P. Seferou, P. Soupios, E. Candasayar, N. **Papadopoulos**, A. Sarris, H. Aktarakçi (2012). Monitoring of contaminant transport by using geoelectrical resistivity tomography. 3rd International Conference on Industrial and Hazardous Waste Management, Chania, 12-14 September 2012.

#### extended abstracts in conferences

- 3.1. P. Tsourlos, M-J Yi, J-H Kim and N. **Papadopoulos** (2012) Comparing ERT Measuring Schemes for 3D Geoelectrical Investigation of Tumuli. 18th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, Paris 3-5 September 2012.
- 3.2. H. Giannakis, P. Tsourlos and N. **Papadopoulos** (2012). A Method to Detect Displacements of Borehole Electrodes through Electrical Resistivity Tomography. 18th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, Paris 3-5 September 2012.

#### 4.3 Papers in Peer Review Journals

##### 2005

- 4.3.1. **Papadopoulos, N.G.**, Tsokas, G.N., Tsourlos, P., Christofides, G. and Stampolidis, A. (2005) Analysis of the geomagnetic field and Bouguer anomalies of Cyprus and their relation with the island's geology. *Ofioliti*, 30(2), 53-63.

##### 2006

- 4.3.2. **Papadopoulos, N.G.**, P. Tsourlos, G.N. Tsokas and A. Sarris (2006). 2D and 3D Resistivity Imaging in Archaeological Site Investigation. *Archaeological Prospection*, 13, 3, 163-181.
- 4.3.3. **Papadopoulos, N.G.**, A. Sarris, B. Wells, A. Penttinen, E. Savini, G.N. Tsokas and P. Tsourlos (2006). Contribution of multiplexed electrical resistance and magnetic techniques to the archaeological investigations at Poros, Greece. *Archaeological Prospection*, 13, 2, 75-90.
- 4.3.4. Sarris, A., R. K. Dunn, J. L. Rife, **Papadopoulos, N.G.**, E. Kokkinou, C. Mundigler (2006). Geological and Geophysical Investigations in the Roman Cemetery at Kenchreai (Korinthia), Greece. *Archaeological Prospection*, 14, 1-23.

##### 2007

- 4.3.5. Soupios Pantelis, Panos Georgakopoulos, **Papadopoulos, N.G.**, Filippou Vallianatos, Apostolos Sarris and John P. Makris (2007). Use of Engineering Geophysics to Investigate a Site for a Building Foundation. *Journal of Geophysics and Engineering*, 4, 94-103.
- 4.3.6. **Papadopoulos, N.G.**, P. Tsourlos, G.N. Tsokas and A. Sarris (2007). Efficient ERT Measuring and Inversion Strategies for 3D Imaging of Buried Antiquities. *Near Surface Geophysics*, 5, 6, 349-362.
- 4.3.7. Pantelis Soupios, **Papadopoulos, N.G.**, Ilias Papadopoulos, Maria Kouli, Filippou Vallianatos, Apostolos Sarris and Thrassyvoulos Manios (2007). Application of Integrated Methods in Mapping Waste Disposal Areas. *Journal of Environmental Geology*, 53, 522-531.

##### 2009

- 4.3.8. **Papadopoulos, N.G.**, Apostolos Sarris, Myeong-Jong Yi and Jung-Ho Kim (2009). Urban Archaeological Investigations by Means of Surface 3D GPR and ERT methods. *Exploration Geophysics*, 40; *Butsuri-Tansa*, 62; *Mulli-Tamsa*, 12, 56-68.
- 4.3.9. **Papadopoulos, N.G.**, Gregory N. Tsokas, Michel Dabas, Myeong-Jong Yi, Jung-Ho Kim and Panagiotis Tsourlos (2009). Three-Dimensional Inversion of Automatic Resistivity Profiling Data. *Archaeological Prospection*, 16, 4, 267-278.

##### 2010

- 4.3.10. **Papadopoulos, N.G.**, M.Y. Yi, J.H. Kim, G.N. Tsokas, P. Tsourlos (2010). Geophysical Investigation of Tumuli by means of Surface 3D Electrical Resistivity Tomography. *Journal of Applied Geophysics* 70 (2010) 192-205.
- 4.3.11. **Papadopoulos, N.G.** & Sarris, A., Urban Archaeological Investigations using Ground Penetrating Radar: A case Study from Heraklion, Crete (Greece), *ISAP News*, Issue 22, January 2010, pp.7-8.

##### 2011

- 4.3.12. **Papadopoulos, N.G.**, P. Tsourlos, C. Papazachos, G.N. Tsokas, A. Sarris and J. H. Kim (2011) An Algorithm for the Fast 3-D Resistivity Inversion of Surface Electrical Resistivity Data: Application on Imaging Buried Antiquities. *Geophysical Prospection*, 59, 557-575.
- 4.3.13. Candansayar, W. E. and **Papadopoulos, N.G.** (2011). An Algorithm for the Fast and Accurate Three-Dimensional DC Resistivity Inversion: Application on Imaging Buried Archaeological Objects, *ISAP News*, issue 28, August 2011, pp.5-6.

**2012**

- 4.3.14. **Papadopoulos, N.G.**, Sarris, A., Salvi, M.C., Dederix, S., Soupios, P., Dikmen, U. (2012). Rediscovering the Small Theatre and Amphitheatre of Ancient Ierapytna (SE Crete) by Integrated Geophysical Methods, *Journal of Archaeological Science*, doi:10.1016/j.jas.2012.01.044.

#### 4.4 Papers in Conference Proceedings

**2004**

- 4.4.1. **Papadopoulos, N.G.**, Sarris, A., Kokinou, E., and Lazaridou, O. (2004). High resolution multiplexed electrical resistance techniques in the geophysical investigations at the Sanctuary of Poseidon at Kalaureia, Poros (Greece). Invited paper presented at the “International Conference on Remote Sensing Archaeology”, October 18-21, 2004, Beijing China. ([http://www.rsarch.cn/english/article/52-N\\_G\\_%20Papadopoulos.pdf](http://www.rsarch.cn/english/article/52-N_G_%20Papadopoulos.pdf)).
- 4.4.2. Sarris, A., **Papadopoulos, N.G.**, Stamatis, G., Kouriati, K., Elvanidou, M., Katifori, M., and Kaskanoti, M.† (2004). Geophysical Investigations at the ancient theatre of Dodoni, N. Greece. Invited paper presented at the “International Conference on Remote Sensing Archaeology”, October 18-21, 2004, Beijing China. ([http://www.rsarch.cn/english/article/54-A\\_%20Sarris.pdf](http://www.rsarch.cn/english/article/54-A_%20Sarris.pdf)).

**2005**

- 4.4.3. Sarris, G. Stamatis, **Papadopoulos N**, E. Kokkinou, S. Topouzi, E. Kokkinaki, E. Moissi, M. Iakovou, V. Kassianidou, G. Papassavas, G. Papantoniou, M. Dikomitou, St. Stylianidis. (2005). Palaepaphos, Cyprus: The contribution of Geographical Information Systems and Geophysical Prospection in the study of the archaeological topography and settlement patterns. Proceedings of the XXXIII Computer Applications and Quantitative Methods in Archaeology, March, 2005 – Tomar, Portugal, ed. Alexandra Figueiredo and Concalo Velho, 199-204.
- 4.4.4. P. Soupios, T. Manios, A. Sarris, F. Vallianatos, K. Maniadakis, **N. Papadopoulos**, J. P. Makris, M. Kouli, E. Gidarakos, V. Saltas, N. Kourgialas (2005). Integrated environmental investigation of a municipal landfill using modern techniques. International Workshop in “Geoenvironment and Geotechnics”, Milos Island, Greece, 1-8.

**2006**

- 4.4.5. Sarris, A., E. Peraki, N. Chatzoyiannaki, M. Elvanidou, E. Kappa, G. Kakoulaki, E. Karimali, M. Katifori, K. Kouriati, G. Papadakis, **N. Papadopoulos**, M. Papazoglou, V. Trigkas, K. Athanasaki. (2006) Time Drilling Through the Past of the Island of Crete. Colloquium C04 – Technology and Methodology for Archaeological Practice: Practical applications for the past reconstruction, XVth Congress of the U.I.S.P.P., Lisbon, 4-9 September 2006, ed(s) Alexandra Vehlo and Hans Kamermans, 115-123.
- 4.4.6. Σαρρής, Α., Βαλλιανάτος, Φ., Γεωργιά, Κ., Καραθανάση, Β., Κοκκινάκη, Α., Λαζαρίδου, Ο., Μαρτίκας, Στ., Παπαδάκης, Γ., **Παπαδόπουλος, Ν.**, Παπάζογλου, Μ., Πυρίντσος, Στ., Σαββαΐδης, Α., Σουπιός, Π., Τρίγκας, Β., Φασσουλάς, Χ., (2006) Δια-δικτυακή Πύλη των Φυσικών Διαθεσίμων της Κρήτης. 9ο Εθνικό Συνέδριο Χαρτογραφίας: Χαρτογραφία Δικτύων – Χαρτογραφία μέσω Δικτύων, Χανιά, 2-4 Νοεμβρίου 2006, 321-340.
- 4.4.7. Σαρρής, Α. Τρίγκας, Β., Παπαδάκης, Γ., Παπάζογλου, Μ., Περάκη, Ε., Χετζογιαννάκη, Ν., Ηλβανίδου, Μ., Καρίμαλη, Ε., Κουριάτη, Κ., Κατηφόρη, **Παπαδόπουλος, Ν.**, Μ., Κακουλάκη, Γ., Κάππα, Ε., Αθανασάκη, Κ., (2006). Πολιτισμική χαρτογράφηση με Πολυμέσα: Ψηφιακός Αρχαιολογικός Άτλαντας της Κρήτης, 9ο Εθνικό Συνέδριο Χαρτογραφίας: Χαρτογραφία Δικτύων – Χαρτογραφία μέσω Δικτύων, Χανιά, 2-4 Νοεμβρίου 2006, 305-317.

**2007**

- 4.4.8. Sarris, A., **Papadopoulos, N.**, Trigkas, V., Kokkinou E., Alexakis, D., Dimitrides, D., Kakoulaki, G., de Marco, E., Seferou, E., Aresti, G., Shen, G., Kondili, F., Karoulis, M., Karifori, M., Simiridanis, K., Koustas, G., Nikas-Karayianis, Y., Dogan, M., Stamatis, G., Kappa, E., Lolos, Y., Kalpaxis, Th., (2007). Recovering the Urban Network of Ancient Sikyon Through Multi-component Geophysical Approaches, International Conference of Computer Applications in Archaeology: Layers of Perception (CAA2007), Berlin, Germany, April 2-6, 2007. 11-16.
- 4.4.9. Sarris, A., Trigkas V., Papadakis, G., Papazoglou, M., Peraki, E., Chetzogiannaki, N., Elvanidou, M., Karimali, E., Kouriati, K., Katifori, M., Kakoulaki, G., Kappa, E., Athanasaki, K., **Papadopoulos, N.**, (2007). A WEB\_GIS Approach for the Cultural Resources Management of Crete: The Digital Archaeological Atlas of Crete, International Conference of Computer Applications in Archaeology: Layers of Perception (CAA2007), Berlin, Germany, April 2-6, 2007, pp. 1-6.

**2008**

- 4.4.10. Guangrong Shen, Apostolos Sarris & **Nikos Papadopoulos (2008)**. Enhancing Geophysical Signals from Archaeological Sites Trough the Use of Wavelet Transforms. WSEAS TRANSACTIONS on SYSTEMS, 3, 7, 140-147.

**2011**

- 4.4.11. Sarris, A., Seferou, P., Kokkinou, E. & **Papadopoulos, N.** (2011). Geophysical Prospection as a way of confirming older topographic plans and descriptions of archaeological sites, Proceedings of the 14th International Congress “Cultural Heritage and New Technologies”, ISBN 978-3-200-02112-9, 234-245, 2011. <<http://www.stadtarchaeologie.at/>> (accessed 17 January 2011).
- 4.4.12. **Papadopoulos, N.** and Sarris, A.(2011) Integrated geophysical survey to characterize the subsurface properties below and around the area of Saint Andreas church (Loutraki, Greece), Proceedings of the 14th

International Congress "Cultural Heritage and New Technologies", ISBN 978-3-200-02112-9, 643-652, 2011. <http://www.stadtarchaeologie.at/> (accessed 17 January 2011)

- 4.4.13. **Παπαδόπουλος, Ν.**, Σαρρής, Α., Φασουλάς, Χ. & Πουλακάκης, Ν., (2011). Εφαρμογή των Γεωφυσικών Μεθόδων του Υπεδάφιου Ραντάρ και της Ηλεκτρικής Αντίστασης στην Παλαιοντολογική Έρευνα για το Δεινοθήριο Γιγάντιο της Κρήτης, Πεπραγμένα Ι' Διεθνούς Κρητολογικού Συνεδρίου - Τόμος Α1 - Προϊστορικοί Χρόνοι, επιμ. Μαρία Ανδρεαδάκη-Βλαζάκη, Φιλολογικός Σύλλογος "Ο Χρυσόστομος", Τυποκρέτα, σελ. 31-43, Χανιά 2011.

#### 2012

- 4.4.14. **Papadopoulos N.G.**, A. Sarris and C. Giampitzoglou (2012). Mapping the buried archaeological remains in the area of the Turkish school of Rethymno (Crete, Greece) through the application of surface ERT and GPR techniques. Proceedings of the 5th Symposium of Greek Archaeometry, 8-10 October 2008, ΕΚΔΟΣΕΙΣ ΠΑΠΑΖΗΣΗ, ISBN 978-960-02-2675-1, 101-115.
- 4.4.15. Sarris, **N. G. Papadopoulos**, M. F. Papakonsantinou, V. Papanthanasios, X. Pipilou and V. Euangeloglou (2008). Contribution of geophysical explorations in rescue excavations during road and railway construction works. Proceedings of the 5th Symposium of Greek Archaeometry, 8-10 October 2008, ΕΚΔΟΣΕΙΣ ΠΑΠΑΖΗΣΗ, ISBN 978-960-02-2675-1, 71-88.
- 4.4.16. Y. A. Lolos, B. Gourley, A. Sarris, C. Hayward, C. Trainor, E. Kiriati, **N. Papadopoulos** (2011). Surveying the Sikyonian Plateau: integrated approach to the study of an ancient cityscape. Proceedings of the 5th Symposium of Greek Archaeometry, 8-10 October 2008, ΕΚΔΟΣΕΙΣ ΠΑΠΑΖΗΣΗ, ISBN 978-960-02-2675-1, 305-326.
- 4.4.17. B. Hayden, I. Μπασιάκος, Α. Σαρρής, Ν. Ζαχαριάς, Κ. Παυλόπουλος, Κ. Θεοδωρακοπούλου, Κ. Αθανασάς, Μ. Τριανταφύλλου, Κ. Κούλη, **Ν. Παπαδόπουλος**, Π. Σούπιος, Η. Παπαδόπουλος (2011). Μια διεπιστημονική προσέγγιση του παλαιοπεριβάλλοντος και των πολιτισμικών-τεχνολογικών καταλοίπων στο Ίστρον, Κόλπου Μιραμπέλο, Α. Κρήτης. Proceedings of the 5th Symposium of Greek Archaeometry, 8-10 October 2008, ΕΚΔΟΣΕΙΣ ΠΑΠΑΖΗΣΗ, ISBN 978-960-02-2675-1, 327-344.

#### 4.5 Extended Abstracts in Conferences

#### 2004

- 4.5.1. Sarris, A., **Papadopoulos, N.G.**, Kokinou, E., and Lazaridou, O. (2004). Geophysical investigations at the Sanctuary of Poseidon at Kalareia, Poros island (Greece), using multiplexed electrical resistance and magnetic techniques. Paper presented at the *EIGG meeting, December 15-16, 2004, London*.
- 4.5.2. G.N. Tsokas, G. Vargemezis, A. Sarris, P. Tsourlos, **N.G. Papadopoulos** and A. Rammou. (2004). Geophysical investigations along tracks of the proposed construction of the new highway Stavros-Rafina, Athens. Paper presented at the *EIGG meeting, December 15-16, 2004, London*.

#### 2005

- 4.5.3. **Papadopoulos N.** And Sarris A. (2005). Geophysical Investigation of Archaeological Sites through the Application of 2D and 3D Geoelectrical Models. *7th Two-Day Meeting of FORTH, Academic Village of Anogia, 10-11 June 2005*.
- 4.5.4. **N.G. Papadopoulos**, G.N.Tsokas, P. Tsourlos and A. Sarris (2005). Archaeological Investigations by Means of Resistivity Inversion. *Oral presentation in the 11th European Meeting of Environmental and Engineering Geophysics, Palermo, Italy, 4 - 7 September 2005*.
- 4.5.5. **N.G. Papadopoulos**, P. Tsourlos, G.N.Tsokas and A. Sarris (2005). 2D and 3D Inversion of Electrical Resistivity Tomography Data collected from Archaeological Sites. *Oral presentation in the 6th International Conference of Archaeological Prospection, Rome 14-17, September, 2005*.
- 4.5.6. A. Sarris, **N.G. Papadopoulos**, M. Elvanidou, E. Kappa, V. Trigkas, E. DeMarco, E. Seferou, G. Stamatis, K. Kouriaty, M. Katifori and M. Kaskanioti† (2005). The Application of Ground Remote Sensing and GIS Technologies for the Study of Ancient Dodoni, Greece. *Oral presentation in the 6th International Conference of Archaeological Prospection, Rome 14-17, September, 2005*
- 4.5.7. A. Sarris, G. Stamatis, **N. Papadopoulos**, E. Kokkinou, S. Topouzi, E. Kokkinaki, E. Moissi, M. Iakovou, V. Kassianidou, G. Papassavas, G. Papantoniou, M. Dikomitou, St. Stylianidis. (2005). Defining the parameters of the main settlement of Palaepaphos, Cyprus, through the Use of Geophysical Prospection and Geographical Information Systems. *Poster presentation in the 6th International Conference of Archaeological Prospection, Rome 14-17, September, 2005*.
- 4.5.8. A. Sarris, **N. Papadopoulos**, E. Kokkinou, J. L. Rife, C. Mundigler, R. Dunn (2005). Mapping the Roman Cemetery at Kenchreai, Korinthia, through a Geophysical and Geomorphological Approach. *Poster presentation in the 6th International Conference of Archaeological Prospection, Rome 14-17, September, 2005*.

#### 2006

- 4.5.9. **N.G. Papadopoulos**, P. Tsourlos, C. Papazachos, G.N. Tsokas and A. Sarris (2006). An Algorithm for Fast 3D Inversion of Parallel 2D ERT Data-Sets. *Oral presentation at the 12th European Meeting of Environmental and Engineering Geophysics, Helsinki, Finland, 4 - 7 September 2006*.
- 4.5.10. G.N. Tsokas, P. Tsourlos, **N. Papadopoulos**, V. Manidaki, M. Ioannidou and A. Sarris (2006). Non Destructive ERT Survey at the South Wall of Acropolis of Athens, Greece. *Oral presentation at the 12th European Meeting of Environmental and Engineering Geophysics, Helsinki, Finland, 4 - 7 September 2006, pp B040*.

- 4.5.11. Sarris, A., Peraki, E., Chatzoyiannaki, N., Elvanidou, M., Kappa, E., Kakoulaki, G., Karimali, E., Katifori, M., Kouriati, K., Papadakis, G., **Papadopoulos, N.**, Papazoglou, M., Trigkas, V., Athanasaki, K., **(2006)**. Digital Archaeological Atlas of Crete. *ESRI 21st European Conference on ArcGIS Users, Athens, November 7-8, 2006*.

**2008**

- 4.5.12. **Papadopoulos, N.**, Yi, M-J. Sarris, A. and Kim J-H. **(2008)** Archaeological Investigations in Urban Areas through Combined Application of Surface ERT and GPR Techniques. *8<sup>th</sup> Meeting of the Korean Society of Exploration Geophysicists, Kongju, S. Korea, 9-10 September 2008*.

**2009**

- 4.5.13. **Nikos Papadopoulos**, Myeong-Yong Yi, Jung-Ho Kim, Panagiotis Tsourlos and Apostolos Sarris **(2009)**. An experimental procedure for the fast 3D inversion of surface electrical resistivity data sets. *CPS/SEG Beijing 2009 International Geophysical Conference and Exposition, 24-27 April 2009, Beijing*.
- 4.5.14. Sarris, A., **Papadopoulos, N.**, Theodoropoulos, S., Gourley, B., Shen, G., Lolos, Y. & Kalpaxis, Th., **(2009)** Revealing the Ancient City of Sikyon through the Application of Integrated Geophysical Approaches and 3D modelling, 8th International Conference on Archaeological Prospection & 7th Colloque GEOFCAN, Memoire duSol, Espace des Hommes, Paris, France, September 2009.
- 4.5.15. **Papadopoulos, N.**, Yi, M-J & Kim, J-H, Tsokas, G., Tsourlos, P. & Sarris, A., **(2009)** Tumuli exploration using surface 3D Electrical Resistivity Tomography, 8th International Conference on Archaeological Prospection & 7th Colloque GEOFCAN, Memoire duSol, Espace des Hommes, Paris, France, September 2009.
- 4.5.16. **Nikos G. Papadopoulos**, Gregory N. Tsokas, Michel Dabas,, Myeong-Jong Yi and Panagiotis Tsourlos. 3D Inversion of Automated Resistivity Profiling (ARP) Data **(2009)**. 8th International Conference on Archaeological Prospection & 7th Colloque GEOFCAN, Memoire duSol, Espace des Hommes, Paris, France, September 2009.
- 4.5.17. Sarris, A. & **Papadopoulos, N.**, **(2009)** Archaeological Geophysical Applications in Hungary, 9th FORTH Retreat (9η Δημεριδα ITE), Loutra Killinis, 2009.
- 4.5.18. **Papadopoulos, N.**, & Sarris, A. **(2009)** Geophysical Investigations of the Old Turkish School of Rethymno using ERT & GPR Techniques, 9th FORTH Retreat, Loutra Killinis, 2009.

**2011**

- 4.5.19. **Papadopoulos, N.G.** and Sarris, A., **(2011)**. An Algorithm for the fast 3-D Inversion of Direct Current Resistivity Data Using LSMR. 9th International Conference on Archaeological Prospection, Izmir, Turkey, September 2011.
- 4.5.20. **Papadopoulos, N.G.**, Sarris, A., Salvi, M.C. and Dederix, S., **(2011)**. The Performance of Geophysical Techniques for the Preservation Assessment of Ancient Theatres in Central and Eastern Crete. 9th International Conference on Archaeological Prospection, Izmir, Turkey, September 2011.
- 4.5.21. **Papadopoulos, N.G.** Sarris, A., Salvi, M.C. and Michalopoulo S., **(2011)**. Integrated Geophysical Investigations in Nemea and Tsoungiza. 9th International Conference on Archaeological Prospection, Izmir, Turkey, September 2011.
- 4.5.22. **Papadopoulos, N.G.** Sarris, A. and Salvi, M.C. **(2011)**. Reconstruction of the Archaeo-Landscape around the Area of the Magoula "Zerelia" in Almyros (Volos, NE Greece). 9th International Conference on Archaeological Prospection, Izmir, Turkey, September 2011.
- 4.5.23. **Papadopoulos N.** and Chatziathanasiou S. **(2011)**. ERT pollution monitoring in areas of olive oil mills' wastes (OOMW): Preliminary results from a disposal site in Crete (Greece). 1st International Workshop on Geoelectrical Monitoring, GELMON 2011, VIENNA, 30.11.-2.12.2011