

Δημοσιεύσεις

205. Economou, N., Kritikakis, G., Manoutsoglou, E. and Vafidis, A., (2022), Fast and efficient void detection in carbonates by combined ERT and borehole data: A case study from Chania Airport in Greece, *The Leading Edge* 41(5):322-330.
204. Panagopoulos, G., Vafidis, A., Soupios, P., Manoutsoglou, E., (2022), A study on the Gas-bearing Miocene Sediments of MESSARA Basin in Crete (Greece) by Using Seismic Reflection, Geochemical and Petrophysical Data *Arabian Journal for Science and Engineering*.
203. Hamdan, H., Kritikakis, G., Harb, M., Vafidis, A., (2021), Preliminary results from real and synthetic data using the MASW-Dual Streamer (DS) technique, 27th European Meeting of Environmental and Engineering Geophysics, Held at Near Surface Geoscience Conference and Exhibition.
202. Andronikidis, N., Kritikakis, G., Vafidis, A., Hamdan, H., Agioutantis, Z., Steiakakis, C., Economou, N., (2021), Geotechnical Investigations in Lignite Open pit Mine Using Electrical Tomography (2D&3D) and Seismic Reflection Methods, 11th Congress of the Balkan Geophysical Society.
201. Economou, N., Brintakis, J., Andronikidis, Kritikakis, G., Kokkinou, E., Papadopoulos, N., Kourgialas, N., Vafidis, A., (2021), Gpr Data Migration Velocity Estimation Using a Local Diffraction Multi-focusing Criterion 11th Congress of the Balkan Geophysical Society.
200. Kritikakis, G., Brintakis, J., Economou, N., Manoutsoglou, E., Skoutelis, N. and Vafidis, A., (2021), Mapping the Foundations of Neoria (Venetian Dockyards) in Chania, Greece, Using ERT, SRT and GPR Methods 11th Congress of the Balkan Geophysical Society.
199. Panagopoulos, G., Soupios, P., Vafidis, A. and Manoutsoglou, E., (2021), Integrated use of well and geophysical data for constructing 3D geological models in shallow aquifers: a case study at the Tymbakion basin, Crete, Greece *Environmental Earth Science*, 80(4), 142.
198. Manataki, M., Vafidis, A. and Sarris, A., (2021), Gpr data interpretation approaches in archaeological prospection, *Applied Sciences (Switzerland)*, 11(16), 7531.
197. Hamdan, H., Economou, N. and Vafidis, A., (2020), Data adaptive GPR diffraction focusing using multi-path summation, 26th European Meeting of Environmental and Engineering Geophysics, Held at Near Surface Geoscience, 196.
196. Demirci, İ., Gündoğdu, Y., Candansayar, E., Soupios, P., Vafidis, A., Arslan, H., (2020), Determination and Evaluation of Saltwater Intrusion on Bafra Plain: Joint Interpretation of Geophysical, Hydrogeological and Hydrochemical Data, *Pure and Applied Geophysics*, 177(11), pp. 5621–5640.
195. Manataki, M., Maris, C., Sarris, A. and Vafidis, A., (2020), A. Nondestructive Investigation of the Mosaic of the Dolphins in Delos, Greece, through the use of Ground Penetrating Radar, *Ground Penetrating Radar Journal*, 3, 1.
194. Hamdan H., Economou N., Vafidis A. (2020) Data Adaptive GPR Diffraction Focusing Using Multi-Path Summation, *Near Surface Geoscience'20*, 7-8 December 2020.
193. Economou, N., Vafidis, A., Bano, M., Hamdan, H., and Ortega-Ramirez, J., (2020), Ground-penetrating radar data diffraction focusing without a velocity model, *Geophysics*, 85, 3, H13–H24. <https://doi.org/10.1190/geo2019-0101.1>
192. Ntoukakis, M., Pantinakis, A., Vafidis, A. and Markopoulos, T., (2019), Selection of co-belonging ceramic fragments from archaeological excavations and their location in vase bodies from thermoremanent magnetization, *Appl. Sci.*, 9, 16. doi: 10.3390/app9163310
191. Manataki, M., Maris, C., Sarris, A. and Vafidis, (2019), Using GPR to Evaluate the Stratigraphic Condition of the Mosaic of the Dolphins in Delos Island Near Surface Geoscience '19, EAGE, 9-11 September, The Hague, The Netherlands.
190. Ελευθερίου Ν, Κρητικάκης Γ, Μαθιουδάκης, Ε. και Βαφείδης Α, (2019) Αριθμητικές Μέθοδοι Υψηλής Ακρίβειας για την Προσομοίωση Επιφανειακών Σεισμικών Κυμάτων σε

Σύγχρονες Υπολογιστικές Αρχιτεκτονικές, Πανελλήνιο συνέδριο αντισεισμικής μηχανικής τεχνικής σεισμολογίας (ETAM, TEE, 5-7 Σεπτεμβρίου 2019, Αθήνα).

189. Galetakis, M., Vafidis, A., Michalakopoulos, T., Apostolopoulos, G., Roumpos, C., Pavloudakis, F., Vasileiou, A., Deligiorgis, V. and Soultana, A., (2018), Development of a Real-Time Mine-Face Inspection System for the Early Detection of Hard Rock Formations during Mining by Bucket-Wheel Excavators, Proceedings of the 14th International Symposium of Continuous Surface Mining, ISCSM2018, Thessaloniki.

188. Oikonomopoulos, K., Makrodimitras, G., Bassias, Y., Vafidis, A., and Andronikidis, N., (2018), Integration of geophysical tools to determine the structural setting offshore south of the island of Crete," in 1st EAGE Workshop on Geophysical and Geological Challenges in the Hydrocarbon Provinces of the Eastern Mediterranean,. doi: 10.3997/2214-4609.201803050.

187. Galetakis, M., Vafidis, A., Kritikakis, G., Deligiorgis, V., Michalakopoulos, T., Apostolopoulos, G., Roumpos, C. and Pavloudakis, F., (2018), Automatic detection of unmineable inclusions while bucket wheel excavator digging, using electromagnetic (EM) sensor and GPS, *Górnictwo Odkrywkowe*, "Poltegor – Instytut" Instytut Górnictwa Odkrywkowego, R. 59, No 4, 7-15.

186. Galetakis, M., Vafidis, A., Vasiliou, A., Kritikakis, G., Michalakopoulos, T., Apostolopoulos, G., Roumpos, C., Pavloudakis, F. and Deligiorgis, V., (2018), Development of a Fuzzy Inference System for avoiding collision of bucket wheel excavator equipped with electromagnetic, *Górnictwo Odkrywkowe*, "Poltegor – Instytut" Instytut Górnictwa Odkrywkowego, R. 59, No 4, 16-22.

185. Vafidis, A., Kritikakis, G., Ecomonou, N., Galetakis, M., Michalakopoulos, T., Apostolopoulos, G., Roumpos, C., Sideri, D. and Soultana, A., (2018), Assessment of geophysical methods for the detection of hard rock formations in lignite mines employing bucket wheel excavators. The case of South Field lignite mine. Macedonia, Greece, *Górnictwo Odkrywkowe*, "Poltegor – Instytut" Instytut Górnictwa Odkrywkowego, R. 59, No 4, 23-30.

184. Roumpos, C., Sideri, D., Pavloudakis, F., Kolovos, N., Michalakopoulos, T., Apostolopoulos, G., Galetakis, M. and Vafidis, A., (2018), Possibilities for improving work efficiency of continuous surface mining systems operating in rocks with excessive digging resistance, *Górnictwo Odkrywkowe*, "Poltegor – Instytut" Instytut Górnictwa Odkrywkowego, R. 59, No 4, 31-41.

183. Pavloudakis, F., Triantafyllou, M., Pirtsas, S., Roumpos, C., Michalakopoulos, T., Apostolopoulos, G., Galetakis, M., Vafidis, A. and Myronidis, L., (2018), Experimental design for applying geophysical methods in investigating the spatial distribution of hard formations in the excavation face of bucket wheel excavators, *Górnictwo Odkrywkowe*, "Poltegor – Instytut" Instytut Górnictwa Odkrywkowego, R. 59, No 4, 42-50.

182. Economou, N., Vafidis, A., Bano, M., Hamdan, H. and Ortega-Ramirez, J., (2018), GPR data multipath summation: Diffractions focusing without a velocity model, IEEE Athens

181. Skoutelis, N., Manoutsoglou, E., Vafeidis, A., Maravelaki, P. and Stavroulaki, M., (2018), Geological, Chemical and Structural Research Regarding the Rehabilitation of the Drystone Rainwater Cisterns of Epano Mirabello Region, Crete, Proceedings of the 4th Biennial of Architectural and Urban Restoration, BRAU4 host of the Itinerant Congress Hidden Cultural Heritage: Under Water, Under Ground And Within Buildings 15–30 April, 2018.

180. Apostolopoulos, G., Vafidis, A., Economou, N., Michalakopoulos, T., Kofakis, P., Amolochitis, G., Kritikakis, G. and Menegaki, M., (2017), Geophysical measurements to detect ahead of Bucket Wheel Excavators the problematic hard formations in coal mines, Proceedings of the «23rd European Meeting of Environmental and Engineering Geophysics», 3–7 September, Malmoe, Sweden.

179. Demirci, I., Candansayar, M.E., Vafidis, A. and Soupios, P., (2017), Two dimensional joint inversion of direct current resistivity, radio-magnetotelluric and seismic refraction data: An application from Bafra Plain, Turkey, **Journal of Applied Geophysics**, Volume 139, April, 316-330.
178. Andronikidis, N., Kokinou, E., Vafidis, A., Kamberis, E. and Manoutsoglou, E., (2017), Deformation patterns in the southwestern part of the Mediterranean Ridge (South Matapan Trench, Western Greece), **Journal of Marine Geophysical Research**, doi: 10.1007/s11001-017-9337-0.
177. Steiakakis, E., Lazaropoulos, A., Vafidis, A., Agioutantis, Z. and Kritikakis, G., (2017), Determination of shear wave velocities in sediment deposits, **Int. J. of Geotechnical Engineering**, 1-11.
176. Ntarlagiannis, D., Kalderis, D., Soupios, P., Kirmizakis, P., Gerodimou, K., Saneiyani, S. and Vafidis, A., (2017), Biochar as a remediation agent - the role of geophysical methods for characterization and monitoring, Fourth International Conference on Engineering Geophysics 9-12 October 2017, Al Ain, United Arab Emirates.
175. Kritikakis, G., Hamdan, H., Vafidis, and Harb, M., (2017), MASW-Dual Streamer (DS): Preliminary results from the investigation of the proposed acquisition technique applicability, Fourth International Conference on Engineering Geophysics 9-12 October 2017, Al Ain, United Arab Emirates.
174. Loizos, A., Plati, C., Vafidis, A., Economou, N., Cuenca-García, C. and Diamanti, N., (2017), GPR activities in Greece, invited chapter in the book entitled "GPR activities in COST Countries", Publishing House: Aracne, Rome, Italy, Open Access, in press.
173. Vafidis, A., Rosios, E., Spanoudakis, N. and Bano, M., (2017), GPR Data Processing Using The 3D Kirchhoff Migration. Application On A Sand Box Experiment, 9th Congress of the Balkan Geophysical Society, Antalya, Turkey.
172. Demirci, I., Candansayar, M.E., Soupios, P., Vafidis, A., Arslan, H. and Gündoğdu, N.Y., (2017), Interpretation Of Geophysical Data For Saltwater Intrusion On Bafra Plain Guided By Hydrogeological And Hydrochemical Data, 9th Congress of the Balkan Geophysical Society, Antalya, Turkey.
171. Vafidis, A., Economou, N., Kritikakis, G., Galetakis, G., Vasiliou, A., Apostolopoulos, G. and Michalakopoulos, T., (2017), Imaging boulders using the GPR method, 10th International Conference on Bearing Capacity of Roads, Railways and Airfields (BCRRA2017), Athens, Greece, 28-30th June.
170. Kourgialas N., Dokou Z., Karatzas G.P., Panagopoulos G., Soupios, P., Vafidis, A., Manoutsoglou, E. and Schafmeister M., (2016), Saltwater intrusion in an irrigated agricultural area: combining density-dependent modeling and geophysical methods, **Environmental Earth Sciences**, 75(1), 1-13.
169. Vafidis, A., Economou, N., Galetakis, G., Vasiliou, A., Michalakopoulos, T. and Apostolopoulos, G., (2016), Assessing the potential of Ground Penetrating Radar (GPR) to detect hard geological formations and inclusions during the excavation by bucket-wheel excavators, Proceedings of the 13th International Symposium on Continuous Surface Mining, ISCSM 2016, Belgrade, Serbia, 11-18 September, pp. 631-642.
168. Partsinevelos, P., Kritikakis, G., Economou, N., Agioutantis, Z., Tripolitsiotis, A., Mertikas, S. and Vafidis, A., (2016), Integration of seismic and image data processing for rockfall monitoring and early warning along transportation networks, **Natural Hazards**, 83, 1, 133-153.
167. Panagopoulos, G., Manoutsoglou, E., Vafidis, A., Soupios, P. and Bellas, S., (2015), Subsurface structure of Tympaki basin (Crete, Greece) based on well and geophysical data, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.

166. Candansayar, M.E., Demirci, I., Vafidis, A., Soupios, P., Economou, N., Andronikidis, N. and Arslan, H., (2015), Two dimensional joint inversion of seismic refraction, radiomagnetotelluric and DC resistivity data: an example from Bafra plain, Turkey, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
165. Andronikidis, N., Kritikakis, G.S., Agioutantis, Z., Vafidis, A., Steiakakis, E., Papageorgiou, C., Schilizzi, C., Tsourlos, P. and Vargemezis, G., (2015), Mapping the bedrock using ERT for slope stability studies at Mavropigi lignite open pit mine, Northern Greece, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
164. Gerodimou, K., Kirmizakis, P., Soupios, P. and Vafidis, A., (2015), Preliminary results from lab experiments on the use and sensitivity of Spectral Induced Polarization (SIP) method, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
163. Hamdan, H., Candansayar, E., Demirci, I., Economou, N., Andronikidis, N., Arslan, H., Soupios P. and Vafidis, A., (2015), Imaging the saline/fresh water interface at Bafra, Samsun, Turkey using joint inversion of seismic refraction and direct current electricity data, Fifth International Conference on Engineering Geophysics 15-18 November 2015, Al Ain, United Arab Emirates, 232-235.
162. Hamdan, H., Candansayar, E., Demirci, I., Economou, N., Andronikidis, N., Arslan, H., Soupios P. and Vafidis, A., (2015), Imaging the saline/fresh water interface at Bafra, Turkey using joint inversion of seismic refraction and ERT data, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
161. Manataki, M., Sarris, A. and Vafidis, A., (2015), Employing CEEMD for improving GPR images: A case study from a Neolithic settlement in Thessaly, Greece, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
160. Spanoudakis, N., Vafidis, A. and Bourbou, C., (2015), GPR survey at the Venetian fortification walls of Chania, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
159. Andronikidis, A., Gialitaki, M., Mouchou, A., Kritikakis, G., Manoutsoglou, E. and Vafidis, A., (2015), Imaging Folegandros basin by using seismic reflection data from a part of seismic line AEG-1, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
158. Vafidis, A., Andronikidis, N., Hamdan, H., Pylotis, I., Panagopoulos, G., Manoutsoglou, E., Kikidis, L. and Botos, N., (2015), Imaging of Alpine and Post-Alpine formations using ERT at Loutsas- Remeri open pit mine, Scourta, Viotia, Greece, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
157. Spanoudakis N., Vafidis, A., Paganis, N., Andronikidis, N., Hatzidakis, and Niniou-Kindeli, V., (2015), Geophysical survey at the area of the ancient theater of Aptaera, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
156. Economou N., Kritikakis, G., Tripolitsiotis, A., Partsinevelos, P., Vlachou, G., Agioutantis, Z. and Vafidis, A., (2015), Seismic monitoring for automatic rockfall detection along transportation corridor, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
155. Loupasakis C., Tsangaratos P., Rozos D., Rondoyianni Th., Vafidis A., Kritikakis G., Steiakakis M., Agioutantis Z., Savvaidis A., Soupios P., Papadopoulos I., Papadopoulos N., Sarris A., Mangriotis M-D. and Dikmen U., (2015) Cross validation of geotechnical and geophysical site characterization methods. near surface data from selected accelerometric stations in Crete (Greece). Proc. of RSCy 2015 - Third International Conference on Remote Sensing and Geoinformation of Environment. Ed: Hadjimitsis D., Themistocleous K., Michaelides S., Papadavid G., Proc. of SPIE Vol. 9535, 95351T-1.
154. Loupasakis, C., Tsagaratos, P., Rozos, D., Rondoyanni, Th., Vafidis, A., Steiakakis, E., Agioutantis, Z., Savvaidis, A., Soupios, P., Papadopoulos, I., Papadopoulos, N., Sarris, A.,

- Mangriotis M.D. and Dikmen, U.F., (2015), Near surface geotechnical and geophysical data cross validated for site characterization applications. The cases of selected accelerometric stations in Crete island (Greece). EGU General Assembly 2015, Geophysical Research Abstracts, Vol. 17, EGU2015-7442.
153. Tsangaratos, P., Loupasakis, C., Rozos, D., Rondoyanni, Th., Vafidis, A., Savvaidis, A., Soupios, P., Papadopoulos, N. and Sarris, A., (2015), The importance of geological data and derived information in seismic response assessment for urban sites. An example from the Island of Crete, Greece. EGU General Assembly 2015, Geophysical Research Abstracts, Vol. 17, EGU2015-13047.
152. Loupasakis, C., Tsangaratos, P., Rozos, D., Vafidis, A., Steiakakis, M., Savvaidis, A., Soupios, P., Papadopoulos, I., Papadopoulos, N., Sarris, A., Mangriotis, M.D. and Dikmen, U., (2015), Site characterization of selected accelerometric stations' sites in Crete island (Greece) founded on rock and soft rock formations. Proc. of 11th EURO-conference on Rock Physics and Geomechanics 2015, pp.75.
151. Manataki M., Vafidis, A., and Sarris, A. Combining CEEMD and Predictive Deconvolution for the suppression of multiple reflections and coherent noise on GPR signals. 8th International Workshop on Advanced Ground Penetrating Radar, Universita di Firenze, 7 - 10 July 2015. (2nd best Young Scientist Award).
150. Economou, N., Vafidis, A., Benedetto, F. and Alani, A., (2015), GPR Data Processing Techniques, invited chapter in the book entitled "Civil Engineering Applications of Ground Penetrating Radar", Springer ISBN 978-3-319-04812-3.
149. Manoutsoglou, E., Panagopoulos, G., Piliotis, I., Steiakakis, E. and Vafidis, A., (2014), The Alluvial fan in Omalos polje, West Crete, 10th National Conference of Hellenic Geographic Society, Thessaloniki, 22-24 October, 431-439.
148. Steiakakis, E., Lazaropoulos, A., Vafidis, A., Agioutantis, Z. and Vavadakis, D., (2014), Rigidity estimation of soil geomaterials from lab tests and geophysical measurements, 7th Panhellenic Meeting of Geotechnical Engineering, Athens.
147. Vafidis, A., Soupios, P., Kritikakis, G., Andronikidis, N., Economou, N., Hamdan, H., Manoutsoglou, E., Steiakakis, E., Candansayar, E., Schafmeister, M.T. and Kritsotakis, M., (2014), Salt Water Intrusion Imaging at Tybaki (Greece) Using Geophysical Methods, Near Surface Geoscience 2014 - 20th European Meeting of Environmental and Engineering Geophysics.
146. Vafidis, A., Economou, N., Kritikakis, G., Manoutsoglou, E., Vargemezis, G., Tsourlos, P., Fotiadis, A., Antonopoulos, E. and Tzirita, A., (2014), Void Detection at Chania Airport by Combining ERT and Borehole Data, Near Surface Geoscience 2014 - 20th European Meeting of Environmental and Engineering Geophysics.
145. Savvaidis, A., Kritikakis, G., Papadopoulos, I., Papadopoulos, N., Dikmen, U., Mangriotis, M.D., Soupios, P. and Vafidis, A., (2014), Different Processing and Inversion Methods for Resolving Vs Profiles in Engineering Geophysics Using Surface Wave Data, Near Surface Geoscience 2014 - 20th European Meeting of Environmental and Engineering Geophysics.
144. Savvaidis A., Margaris B., Theodoulidis N., Lekidis V., Karakostas Ch., Loupasakis C., Rozos D., Soupios P., Mangriotis M-D., Dikmen U., Tsangaratos P., Kokinou E., Vafidis A., Rondoyanni Th., Kalogeras I., Koutrakis S., Sarris A., Papadopoulos N. (2014) Geo-Characterization at selected accelerometric stations in Crete (Greece) and comparison of earthquake data recordings with EC8 elastic spectra, **Central European Journal of Geosciences**, Versita-Springer, 6:1, pp 88-103.
143. Karakostas, Ch., Savvaidis, Al., Lekidis, V., Margaris, B., Theodoulidis, N., Vafidis, A., Loupasakis, C., Soupios, P. and Papadopoulos, N., (2014), A proposal for accelerometric station validation procedures: application to representative sites in Crete (Greece). Second European Conference on Earthquake Engineering and Seismology.

142. Kritikakis G., Vafidis, A., Papakonstantinou, K., and O'Neill, A., (2014), Comparative study of different inversion techniques applied on Rayleigh surface waves dispersion curves, **Near Surface Geophysics**, 12, 361-371.
141. Hamdan, H., Andronikidis, N., Kritikakis, G., Economou, N., Agioutantis, Z., Schilizzi, P., Steiakakis, C., Papageorgiou, C., Tsourlos, P., Vargemezis, G., and Vafidis, A., (2014), Contribution of electrical tomography methods in geotechnical investigations at Mavropigi lignite open pit mine, Northern Greece, **Environmental Earth Sciences**, 72, 5, 1589-1598.
140. Manataki, M., Vafidis, A., and Sarris A, (2014), Application of empirical mode decomposition methods to ground penetrating radar data, **First Break**, 32, 8, 67-71.
139. Vafidis, A. Soupios, P., Economou, N., Hamdan, H., Andronikidis, N., Kritikakis, G., Panagopoulos, G., Manoutsoglou, E., Steiakakis, E., Candansayar, E., and Schafmeister, M., (2014), Seawater intrusion imaging at Tybaki, Crete, Greece, using geophysical data and joint inversion of electrical and seismic data, **First Break**, 32, 8, 107 - 114.
138. Soupios, P., Kourgialas, N., Dokou, Z., Karatzas, G., Panagopoulos, G., Vafidis, A. and Manoutsoglou, E., (2014), Modeling Saltwater Intrusion at an Agricultural Coastal Area using Geophysical Methods and the FEFLOW Model, IAEG XII Congress, 15-19 September, Torino, ITALY.
137. Hamdan, H., Vafidis, A., Agioutantis, Z. and Sharif, E., (2013), Contribution of Electrical Tomography in estimating slope stability at Mavropigi lignite open pit mine, Northern Greece, Second International Conference on Engineering Geophysics 24-27 November, Al Ain, United Arab Emirates, 238-241
136. Savvaidis A., Margaritis B., Theodoulidis N., Lekidis V., Karakostas Ch., Mangriotis M-D., Kalogeras I., Koutrakis S., Vafidis A., Steiakakis M., Agioutantis Z., Rozos D., Loupasakis C, Rondoyianni Th., Tsagaratos P., Dikmen U., Papadopoulos N., Sarris A., Soupios P., Kokkinou E., Papadopoulos I., Kouli M. and Vallianatos F., (2013), GEO-CHARACTERIZATION according to recent advances of EUROCODE (EC8), First International Conference on Remote Sensing and Geoinformation of Environment, 8-10 April 2013, Paphos, Cyprus. Received the BEST PAPER AWARD.
135. Candansayar, E., Demirci, İ., Vafidis, A. and Soupios, P., (2013), Investigation of Salt Water Intrusion with Joint Inversion of Direct Current Resistivity and Seismic Refraction Data, 20th International Geophysical Congress and Exhibition of Turkey, 25-27 November, Antalya, Turkey.
134. Vafidis, A., Andronikidis, N., Hamdan, H., Kritikakis, G., Economou, N., Panagopoulos, G., Soupios, P., Steiakakis, E. and Manoutsoglou, E., (2013), The CLEARWATER project: preliminary results from the geophysical survey in Tympaki, Crete, Greece, EGE13, Chania.
133. Panagopoulos, G., Giannakakos, E., Manoutsoglou, E., Steiakakis, E., Soupios, P. and Vafidis, A., (2013), Definition of inferred faults using 3D geological modeling techniques: a case study in Tybaki basin in Crete, Greece, EGE2013, Chania.
132. Vafidis, A. Andronikidis, N., Hamdan, H., Kritikakis, G., Economou, N., Panagopoulos, G., Zanettidis, S., Merziotis, D., Pateras, S., Nikofoarakis, E. and Blais, J.P., (2013), Rock characterization for the foundation of two water reservoirs using geophysical and borehole data, EGE2013, Chania.
131. Vafidis A., Steiakakis M., Agioutantis Z., Andronikidis N., Kritikakis G., Economou N., Pandi K., Spanoudakis N., Savvaidis A., Margaritis B., Theodoulidis N., Lekidis V., Karakostas Ch., Mangriotis M-D., Kalogeras I., Koutrakis S., Rozos D., Loupasakis C., Rondoyanni Th., Tsangaratos P., Dikmen U., Papadopoulos N., Sarris A., Soupios P., Kokkinou E., Papadopoulos I., Kouli M. and Vallianatos F., (2013), "GEO-CHARACTERIZATION" of selected areas in Crete, Greece, towards realistic assessment of seismic design actions. Proceedings of the 13th International Congress of the Geological Society of Greece, Bulletin of the Geological Society of Greece, vol. XLVII, Pre-Congress Proceedings' CD - Paper Number 326.

130. Steiakakis, E. Vafidis, A., Manoutsoglou, M. and Vavadakis, D., (2013), Influence of geological and geotechnical conditions to design a water reservoir in karst area, EGE2013, Chania.
129. Koutsoupakis, I., Raptakis, D., Soupios, P. and Vafidis, A., (2013), Preliminary V_{s30} spatial distribution of Chania city, Greece based on MAM measurements, submitted to 20th International Geophysical Congress and Exhibition of Turkey, 25-27 November 2013, Antalya, Turkey.
128. Vafidis, A., Hamdan, H., Andronikidis, N., Kritikakis, G. and Economou, N., (2013), Imaging of karstic carbonates using electrical resistivity data at Malia, Crete, Greece, 7th Congress of the Balkan Geophysical Society, Tirana, Albania.
127. Economou, N., Vafidis, A. and Benedetto, F., (2013), Development of advanced GPR data processing techniques. State of the art and open issues, Invited paper for the Book of the First Meeting of the COST ACTION TU1208, entitled CIVIL ENGINEERING APPLICATIONS OF GROUND PENETRATING RADAR.
126. Hamdan, H. and Vafidis, A., (2013), Joint inversion of 2D resistivity and seismic travel time data to image saltwater intrusion over karstic areas, **Environmental Earth Sciences**, 68, 7, 1877-1885.
125. Vafidis, A., Andronikidis, N., Economou, N., Panagopoulos, G., Zelilidis, A. and Manoutsoglou, E., (2012), Reprocessing and interpretation of seismic reflection data at Messara Basin, Crete, Greece, **Journal of the Balkan Geophysical Society**, 15, no 2, 31-40.
124. Pasadakis, N., Ntagounaki, B., Xamilaki, E., Vafidis, A., Zelilidis, A., Piliotis, I., Panagopoulos, G. and Manoutsoglou, E., (2012), Organic geochemical survey of Neogene formations in Messara basin, Heraclio, Crete, **Mineral Wealth**, 166, 7-26.
123. Andronikidis, N., Kritikakis, G., Papatthanasiou, H., Vafidis, A., Panagopoulos, G. and Manoutsoglou, E., (2012), Subsurface spatial data and their use in infrastructures, 12th National Cartographic Conference, Hellenic Cartographic Society, 10-12 October, Kozani, Greece.
122. Hamdan, H., Economou N., Kritikakis, G., Andronikidis, N., Manoutsoglou E., Vafidis, A., Pangratis, P., and Apostolidou, G., (2012), 2D and 3D imaging of the metamorphic carbonates at Omalos plateau/polje, Crete, Greece by employing independent and joint inversion on resistivity and seismic data, **Journal of Speleology**, 41, 2, 199-209.
121. Economou, N. and Vafidis, A., (2012), GPR data time varying deconvolution by kurtosis maximization, **Journal of Applied Geophysics**, 81, 117-121.
120. Manoutsoglou, E., Hamdan, H., Vafidis, A. and Skoutelis, N., (2012), Contribution of the electrical tomography in the protection of traditional wells at Mirabello, Eastern Crete – Paper, International Conference Protection and restoration of the environment XI, pp. 1355 – 1364, July 3-6, Thessaloniki.
119. Economou, N., Vafidis A., Hamdan H., Kritikakis G., Andronikidis N. and Dimitriadis K., (2012), Time varying deconvolution of GPR data in civil engineering, **Nondestructive Testing and Evaluation International**, 27, 3, 285-292.
118. Panagopoulos, G., Hamdan, H., Spyridonos, E., Pylitotis, I., Zelilidis, A., Vafidis A. and Manoutsoglou E., (2011), 3D geological modeling using VES data. An application on methane-bearing Neogene deposits at Arkalochori region, Messara, Crete, Greece. Extended Abstract, 6th Congress of Balkan Geophysical Society, 3-6 October, Budapest, Hungary.
117. Panagopoulos, G., Pylitotis, I., Zelilidis, A., Spyridonos, E., Hamdan, H., Vafidis, A. and Manoutsoglou, E., (2011), 3D modeling of biogenic gas-bearing Neogene deposits at Arkalochori region, Messara, Crete, Greece. Paper, IAMG 2011, September 5-9, University of Salzburg, Austria.

116. Economou, N. and A. Vafidis, A., (2011), Deterministic deconvolution for GPR data in t-f domain, **Near Surface Geophysics**, 9, no. 5, 427-433.
115. Zannetidis, S., Economou, N., Hamdan, H., Nyktas, P., Kazakis, G., Ghosn, D., Remoundou, E. and Vafidis, A., (2011), Imaging sand dunes at Kedrodasos coastal area, Crete, Greece. 6th Congress of Balkan Geophysical Society, 3-6 October 2011, Budapest, Hungary.
114. Economou, N., Hamdan, H., Kritikakis, G., Andronikidis, N., Manutsoglou, E. and Vafidis, A., (2011), Geoelectrical and seismic imaging of the Omalos plateau, Crete, Greece, 6th Congress of Balkan Geophysical Society, 3-6 October 2011, Budapest, Hungary.
113. Vafidis, A, Economou, N. and Dimitriadis, K., (2011), Time varying zero-phase filtering of GPR data for imaging pavement layers, Proceedings of 73rd EAGE Conference & Exhibition incorporating SPE EUROPEC 2011, Vienna, Austria, 23-26 May.
112. Economou N., Vafidis A., Hamdan H., Kritikakis G., Andronikidis N. and Dimitriadis K., (2011), Time varying deconvolution of GPR data in civil engineering, Conference of European Geosciences Union, General Assembly 2011, Session GI-6 Civil Engineering Applications of Ground Penetrating Radar, Vienna, Austria, 3-8 April.
111. Kritikakis, G. and Vafidis, A., (2011), Different alternatives of surfaces waves data inversion applications on environmental and geotechnical applications, 6th Congress of Balkan Geophysical Society, 3-6 October 2011, Budapest, Hungary.
110. Hamdan, H., Kritikakis G., Andronikidis, N., Economou, N., Manoutsoglou E. and Vafidis, A., (2010), Integrated geophysical methods for imaging saline karst aquifers. A case study of Stylos, Chania, Greece **Journal of the Balkan Geophysical Society**, 13, no. 1, 1-8.
109. Kritikakis, G. and Vafidis, A., (2010), Comparative study on damping and smoothing constraints for the inversion of surface waves data, 72nd EAGE conference and Exhibition, Extended Abstracts, M038.
108. Andronikidis, N., Kritikakis, G., Papathanasiou, H., Vafidis, A., Panagopoulos G. and Manoutsoglou, E., (2010), Rock percentage estimation using P-wave tomography. A case study from Mochos, Heraklion, Greece, 16th European Meeting of Environmental and Engineering Geophysics, Extended Abstracts, P05.
107. Economou, N. and Vafidis, (2010), Spectral balancing GPR data using time variant band-width in t-f domain, **Geophysics**, 75, no. 3, J19-J27.
106. Mertzanides, Y., Economou, N., Hamdan, H. and Vafidis, A., (2010), Imaging sea water intrusion in coastal, Proceedings of the 12th International Congress of the Geological Society of Greece, 19-22 May, Patras, Greece.
105. Economou, N. and Vafidis, A., (2010), GPR data time varying deconvolution by kurtosis maximization, GPR2010, 21-25 May, Lecce, Italy.
104. Kolletas, P., Vafidis, A. and Agioutantis, Z., (2010), Novel geophysical method for underground investigations via seismic waves spectral estimation and application in Neogene karst limestones area, Kounoupidiana, Chania, Tech. Chron. Sci. J. TCG, 30, No 1.
103. Kritikakis, G., Vafidis, A., Agioutantis, Z., Andronikidis, N. and Kanaris, D., (2009), Contribution of the Multichannel Analysis of Surface Waves (MASW) method in the geotechnical characterization of soils, Proceedings of the 3rd International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 2009, 7 – 9 September, Athens, Greece.
102. Hamdan, H. and Vafidis, A., (2009), Inversion techniques to improve the resistivity images over karstic structures, Proceedings of the «15th European Meeting of Environmental and Engineering Geophysics», 3–5 September 2009 Dublin, Ireland.
101. Economou, N. and Vafidis, A., (2009), Deterministic deconvolution for GPR data in t-f domain, Proceedings of 5th Congress of Balkan Geophysical Society, Geophysics at the Cross-Roads, Belgrade, Serbia, 10-16 May.

100. Manoutsoglou, E., Vaxlas, G., Vafidis, A., Pasadakis, N., Zelilidis, A., Koumoutsou, E., Karapanos, H. and Lamprakis, N., (2008), Neogene aquifers in Messara basin, Crete, Oral & Poster, 8th International Hydrology Conference, Athens, 8-10 October.
99. Kaklis, K., Agioutantis, Z., Vafidis, A., Maurigiannakis, S., Kouvelas, M. and Feggos, G., (2008), Experimental characterization of the bioclastic Limestone of Alfas-Rethimnon, using laboratory and insitu testing, 1st Panhellenic Congress on Structural Materials, 21-23 May 2008, Athens, Greece, 1075-1084.
98. Spanoudakis, N. and Vafidis, A., (2008), Ground Penetrating Radar Trace Shape Classification Using Self Organizing Maps – An Example from Ancient Aptera, «Near Surface 2008» – the 14th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, Krakow, Poland, 15-17 September.
97. Economou, N. and Vafidis, A., (2008), Spectral balancing of GPR data using time-variant bandwidth in t-f domain, «Near Surface 2008» – the 14th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, Krakow, Poland, 15-17 September.
96. Kokinou, E., Vafidis, A. and Kamberis, E., (2007), Deep water prestack multiple suppression on reflection data from Ionian sea (offshore western Greece), **Annals of Geophysics**, Vol. 50, No. 2, pp. 137-147.
95. Koukadaki M.A., G.P. Karatzas, M.P. Papadopoulou, and A. Vafidis, (2007), Identification of the Saline Zone in a Coastal Aquifer using Electrical Tomography Data and Simulation, **Water Resources Management**, Vol. 21, No 11, pp. 1881-1898.
94. Soupios, P. M., Kouli, M., Vallianatos, F., Vafidis, A. and Stavroulakis, G., (2007), Estimation of aquifer hydraulic parameters from surficial geophysical methods: A case study of Keritis Basin in Chania (Crete – Greece), **Journal of Hydrology**, Volume 338, Issues 1-2, pp. 122-131
93. Vafidis, A., Economou, N., Galanaki, G. and Bouloukakis, I., (2007), Pilot geophysical research at the archaeological site of Littos, Kastelli Pediados, Crete, Proceedings of conference “Liktos Euktimeni”, 9-11 November, Kastelli Pediados, Crete.
92. Vafidis, A., and Economou, N., (2007), Integrated geophysical surveys for antiquities in Crete, Proceedings of conference “Liktos Euktimeni”, 9-11 November, Kastelli Pediados, Crete.
91. Vafidis, A., Economou, N., Spanoudakis, N.S., Hamdan, H.A. and Niniou-Kindeli, V., (2007), Application of Classification Methods on Geophysical Data from the Archaeological Site of Aptera, Chania, Greece, Proceedings of “Near Surface 2007” – the 13th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, 3-5 September, Istanbul, Turkey.
90. Alevras, N., Hamdan, H.A., Vafidis, A. and Manoutsoglou, E., (2007), Geoelectrical Mapping of the Omalos Plateau/Polje, Chania, Western Crete, Greece, Proceedings of “Near Surface 2007” – the 13th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, 3-5 September, Istanbul, Turkey.
89. Hamdan, H.A., Kritikakis, G., Vafidis, A. and Manoutsoglou, E., (2007), The Role of Geophysical Methods in Salt-water Intrusion Mapping for Strongly Karst Formations, a Case Study at Stylos, Crete, Proceedings of “Near Surface 2007” – the 13th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, 3-5 September, Istanbul, Turkey.
88. Spanoudakis, N.S. and Vafidis, A., (2007), GPR Data Interpretation Using Self Organizing Maps, Proceedings of “Near Surface 2007” – the 13th European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience Division of EAGE, 3-5 September, Istanbul, Turkey.

87. Monopolis, D., Manoutsoglou, E., Hamdan, H., and Vafidis, A., (2006), Cartographic mapping of soil characterization in Basilies area, Heraklion, Crete, in the order of general urban plan, Proceedings of the 8th National Cartographic Conference, Island Cartography, Hellenic Cartographic Society, Thessaloniki, 24-26 November, 469-476.
86. Economou, N., Vafidis, A., Hamdan, H., Andronikidis, N., Koukadaki, M., Kritikakis, G., Spanoudakis, N., and Manoutsoglou, E., (2006), Geophysical survey at the Omalos Plateau, Chania, Crete, Proceedings of the 8th National Cartographic Conference, Island Cartography, Hellenic Cartographic Society, Thessaloniki, 24-26 November, 491-501.
85. Vafidis, A. and Kritikakis G, (2006), The application of the multichannel analysis of surface waves method (MASW) in geotechnical investigations, 17th International Geophysical Congress and Exhibition by UCTEA, 14-17 November 2006, Ankara, Turkey.
84. Economou, N., Mosialos, B., Vafidis, A., Meier, T., Rische, M., Endrun, B. and Harjes, H-P., (2006), Microseismicity observations in Crete using temporary arrays, Proceedings of the 2nd International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 25 – 27 September, Chania, Greece, pp. 143-148.
83. Kritikakis, G., Economou, N., Hamdan, H., Spanoudakis, N., Antoniou, A., Vafidis, A., Bano, M., Pasadakis, N. and Gourry, J.C., (2006), Contribution of the geophysical methods in delineating soil contamination, Proceedings of the 2nd International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 25 – 27 September, Chania, Greece, pp. 129-134.
82. Michalakis, I., Economou, N., Hamdan, H., Vafidis, A., Manoutsoglou, E., Panagopoulos, G., Roubedakis, S., Vozinakis, C., Lampathakis, S. and Dassyra, E., (2006), Geological and geophysical study of saltwater contamination at Stylos, Crete, Proceedings of the 2nd International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 25 – 27 September, Chania, Greece, pp. 157-161.
81. Sodoudi, F., Kind, R., Hatzfeld, D., Priestley, K., Hanka, W., Wylegalla, K., Stavrakakis, G., Vafidis, A., Harjes, H.-P., and Bohnhoff, M., (2006), Lithospheric structure of the Aegean obtained from P and S receiver functions, **Journal of Geophysical Research**, 111, B12307, 1-23 and 2nd General Assembly European Geosciences Union (Vienna, Austria 2005).
80. Diamanti, N.G., Tsokas, G.N., Tsourlos, P.I. and Vafidis, A., (2005), Integrated interpretation of geophysical data in the archaeological site of Europos (northern Greece) **Archaeological Prospection** Volume 12, Issue 2, pp. 79 – 91.
79. Soupios, P., Papazachos, C., Tsokas, G. and Vafidis, A., (2005), Non linear inversion of seismic data for a determination of reflector geometry and velocity structure, **Journal of Balkan Geoph. Society**, Vol. 8, No.3, pp. 74-88.
78. Stampolidis, A., Tsourlos, P., Soupios, P., Mimides, Th., Tsokas, G., Vargemezis, G. and Vafidis, A., (2005), Integrated geophysical investigation around the brackish spring of Rina, Kalimnos Isle, Southwest Greece, **Journal of Balkan Geoph. Society**, Vol. 8, No.3, pp. 63-73.
77. Kokinou, E., Kamberis, E., Vafidis, A., Monopolis, D., Ananiadis, G. and Zelilidis, A., (2005), Deep seismic reflection data from offshore western Greece: A new crustal model for the Ionian sea. **Journal of Petroleum Geology** 28 (2), 185–202.
76. Papakonstantinou, K., Kritikakis, G., Vafidis, A. and Stiakakis, E., (2005), Geophysical and lab measurements for the calculation of the mechanical properties of marls. **Tech. Chron. Sci. J. TCG**, 25, No 1-2, 67-78.
75. Vafidis, A., Economou, N., Ganiatsos, Y., Manakou, M., Poulioudis, G., Sourlas, G., Vrontaki, E., Sarris, A., Guy M. and Kalpaxis, Th., (2005), Integrated geophysical studies in ancient Itanos (Greece), **Journal of Archaeological Sciences**, 32, 1023-1036.

74. Manutsoglu, E., Vafidis, A., Kritikakis, G., Hamdan, H.A., Andronikidis, N., Spanoudakis, N.S. and Economou, N., (2004), Methods of 3D visual representation of interpreted geophysical data in regions of hydrogeological interest, Proceedings of the 1st International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 7 – 9 June, Chania, Greece, pp. 709-714.
73. Kritikakis, G., Vafidis, A. and Gourry, J., (2004), Rayleigh surface wave analysis and application at the Monfalcone landfill and at the industrial area of Porto Petroli, Genoa, Northern Italy, Proceedings of the 10th International Congress of the Hellenic Geological Society, 15 – 17 April, Thessaloniki, Greece, 1234-1243.
72. Vafidis, A., Hamdan, H., Andronikidis, N., Dasyras, A., Kritikakis, G., Koukadaki, M., Koumakis, E., Lampathakis, S., Manoutsoglou, E., Economou, N., Papakonstantinou, K. and Spanoudakis, N., (2004), Contribution of electrical tomography and seismic refraction in site selection for a dam at Kountoura, Chania, Greece, Proceedings of the 10th International Congress of the Hellenic Geological Society, 15 – 17 April, Thessaloniki, Greece, 1214-1223.
71. Vafidis, A., Manoutsoglou, E., Andronikidis, N., Hamdan, H., Koukadaki, M., Kritikakis, G., Economou, N. and Spanoudakis, N., (2004), Geophysical survey at the Omalos Plateau, Chania, Crete, Proceedings of the 10th International Congress of the Hellenic Geological Society, 15 – 17 April, Thessaloniki, Greece, 1204-1213.
70. Meier, T., Rische, M., Endrum, B., Vafidis, A. and Harjes, H.-P., (2004), Seismicity of the Hellenic Subduction Zone in the area of western and central Crete observed by temporary local seismic networks, **Tectonophysics** 383, 149– 169.
69. Kritikakis, G.S., Vafidis, A. and Louis, I., (2004), Estimation of S-wave velocity and dynamic mechanical properties of soils from Rayleigh surface waves records, **Tech. Chron. Sci. J. TCG**, 1, No 2-3.
68. Vafidis, A., Sarris, A. and Kalpaxis, Th., (2003), Integrated geophysical studies in ancient Itanos (Greece), 4th Archaeometry Symposium, May, 28-31.
67. Kokinou, E., Vafidis, A., Louis, I. and Loukojannakis, M., (2003), Deep seismic imaging and velocity estimation in Ionian Sea, **Journal of the Balkan Geophysical Society**, Vol. 6, No. 2, p.100 – 116.
66. Vafidis, A., Manakou, M., Kritikakis, G., Voganatsis, D., Sarris, A. and Kalpaxis, Th., (2003), The mapping of the ancient port in the archaeological site of Itanos (Greece) using shallow seismic methods, **Archaeological Prospection**, Vol 10, No 3, pp 163-173 and Proceedings of the Second Balkan Geophysical Congress and Exhibition, Istanbul, Turkey, July 5-9, 1999 pp 138-139.
65. Kokinou, A. Vafidis, J. Louis, (2003), Seismic Tomography of the Near Vertical Incidence, **Journal of the Balkan Geophysical Society**, Vol. 6, No. 2, p. 75 – 87.
64. Kokinou, E. and Vafidis, A., (2003), Seismic modeling of marine reflection data from Ionian sea, **Journal of the Balkan Geophysical Society**, Vol. 6, No. 1, February 2003, p. 21 – 36.
63. X. Li, G. Bock, A. Vafidis, R. Kind, H.-P. Harjes, M.V.D. Meijde, W. Hanka, K. Wylegalla and X. Yuan, (2003), Receiver function study of the Hellenic Subduction Zone: Imaging crustal thickness variations and oceanic Moho of the descending African lithosphere, **Geophysical Journal International**, vol. 155, no2, pp. 733-748.
62. Louis, I., Vafidis, A. and Amolohitis, G., (2002), Interpretation of seismic refraction data using modeling and inversion techniques: A case study in Monastiraki subway station Athens, Greece, Bulletin of Geological Society of Greece, November.
61. Louis, I., Vafidis, A., Louis, F. and Tassopoulos, N., (2002), The use of the geophysical prospecting for imaging the aquifer of Lakka carboniferous mass, Mandoudi Euboea, Greece, **Journal of Balkan Geoph. Society**, Vol. 5, No.3, pp. 97-106.

60. Louis, I., Karastathis, V., Vafidis, A. and Louis, F., (2002), Resistivity modelling and imaging methods for mapping near-surface features: application to a site characterization at the ancient temple of Olympian Zeus in Athens, **Journal of the Balkan Geophysical Society**, Vol. 5, No.4, pp. 135-144.
59. Kokinou, E. and Vafidis, A., (2002), Seismic modeling of marine reflection data from Ionian sea, Proceedings of the Third Balkan Geophysical Congress and Exhibition, Sofia, Bulgaria, 24-28 June, pp. 150-151.
58. Kokinou, E. and Vafidis, A., (2002), Deep-water multiple suppression on prestack and poststack reflection data from Ionian sea, Proceedings of the Third Balkan Geophysical Congress and Exhibition, Sofia, Bulgaria, 24-28 June, pp. 142-143.
57. Kritikakis, G. and Vafidis, A., (2002), Combination of refraction method and surface wave analysis for the estimation of dynamic mechanical properties of soils, Proceedings of the 3rd Congress of Balkan Geophysical Society, June 24-28, Sofia, Bulgaria, p. 87-88.
56. Vafidis, A., Louis, Y. and Karantonis, G., (2002), Ray and wave methods in complex geologic structures, **Journal of Balkan Geoph. Society**, 2002, Vol. 5, No.2, pp. 57-64.
55. Hamdan, H., Zizis, K., Manoutsoglou, E., Vafidis, A. and Sofos, F., (2002), Three dimensional mapping of possible water bearing formations in Kissamos area, Chania, Crete, Greece, Proceedings of the 7th National Cartografic Conference, Island Cartography, Hellenic Cartographic Society, Mitilini, 23-26 October, 431-439.
54. Andronikidis, N., Georgila, K., Economou, N., Manoutsoglou, E. and Vafidis, A., (2002), Geologic interpretation and mapping of seismic reflection data at Ano Vathia, Heraklion, Crete, Greece, Proceedings of the 7th National Cartografic Conference, Island Cartography, Hellenic Cartographic Society, Mitilini, 23-26 October, 451-460.
53. Spanoudakis, N., Patsa, S., Manoutsoglou, E. and Vafidis, A., (2002), Imaging three dimensional geophysical data from Mesi, Rethymnon, Crete, Greece, Proceedings of the 7th National Cartografic Conference, Island Cartography, Hellenic Cartographic Society, Mitilini, 23-26 October, 409-417.
52. Kritikakis, G., Gougogiannis, Y., Vafidis, A., Monopolis, D., Economou, N. and Manoutsoglou, E., (2002), Imaging geological formations at the area of Almiros river, Heraklion, Crete, Greece, Proceedings of the 7th National Cartografic Conference, Island Cartography, Hellenic Cartographic Society, Mitilini, 23-26 October, 419-429.
51. Vafidis, A., Poulioudis, G., Kritikakis, G. and Sarris, A., (2002), High resolution geophysical imaging of buried relics in Itanos archaeological site, Proceedings of the International meeting CAA 2002, Computer Applications and Quantitative Methods in Archaeology Conference, "The Digital Heritage of Archaeology", 2-6 April, Heraklion, Crete, Greece, pp 245-250.
50. Vafidis, A., Economou, N. and Sarris, A., (2002), Geophysical data presentation using GIS, Proceedings of the International meeting CAA 2002, Computer Applications and Quantitative Methods in Archaeology Conference, "The Digital Heritage of Archaeology", 2-6 April, Heraklion, Crete, Greece, pp 195-200.
49. Sarris, A., Vafidis, A., Economou, N., Poulioudis, G., Limneou-Papakosta, C., (2001), Prospecting the old Jewish cemetery in the center of Alexandria, Egypt Proceedings, 4th Int. Conf. On Archaeological Prospecting, Austrian Academy of Sciences, Vienna, September 19-23.
48. Sarris, A., Vafidis, A., Mertikas, St., Guy, M., Vrontaki, E., Manakou, M. and Kalpaxis, Th., (2001), Ancient Itanos (Erimoupolis Lasithi): Creating an archaeological site to a remote sensing laboratory, 31st International Symposium on Archaeometry (Archaeometry '98), Budapest, Hungary, April 27-May 1, 1998 – British Archaeological Reports (BAR) (ed. By E. Jerem and K. Biro)/ Archaeolingua Central European Series (sems Editor: E. Jerem), published by Archaeopress in association with Archaeolingua, volume 1.

47. Poulioudis, G., Vafidis, A., Sarris, A. and Kalpaxis, Th., (2000), Shallow target GPR imaging in ancient Itanos (Greece), Proceedings of the SEG/EAGE/RSG Bucharest International Geophysical Conference and Exposition, Bucharest, Romania, 10-14 April pp 182-183.
46. Greco, E., Kalpaxis, Th., Schnapp, A. et Viviers, D., avec la collaboration de Carando, E., De Bonis, R., D'Hautcourt, A., Duboeuf, P., Grivaud, G., Guy, M., Licoppe, C., Massar, N., Polosa, A., Sarris, A., Schnapp-Gourbeillon, A., Siard, H., Theodorescu, D., Tsigonaki, Ch., Tsingarida, A., Vafidis, A. et Xanthopoulou, M., Travaux menés en collaboration avec l'École française en 1999. (2000) Itanos (Crète orientale), **Bulletin de Correspondance Hellenique** (BCH), 124/II, Etudes Chroniques et rapports, pp. 547-559.
45. Libing, G., Murowchick, R., Reidy, D., Cist, D., Di, Q., Dolychuck, J., Sarris, A., Vafeidis, A., Giourou, A., Kevgas, V., Topouzi, S., and Soetens, S., (2000) "Differences of Scale - Similarities in Research Procedures: Archaeological Prospection in the Sangqiu Area, Northern China & Itanos, Southern Greece", Proceedings (in CD-ROM) of the 32nd International Symposium on Archaeometry (Archaeometry 2000) Mexico City, Mexico, May 15-19.
44. Louis, I., Vafidis A. and Makropoulos, C., (1999), Determination of a 2D velocity macro-model from pre-stack travel time inversion of a marine seismic reflection data set in Ionian Sea, Greece, Extended Abstracts of 61st EAGE Conference and Technical Exhibition, Helsinki, P131.
43. Greco, E., Kalpaxis, Th., Schnapp, A., et D. Viviers avec la collaboration de Carando, E., De Bonis, R., D' Ercole, C., Duboeuf, P., francoise, J., Garcia Martin, C., Grivaud, G., Guy, M., Licoppe, C., Massar, N., Sarris, A., Schnapp-Gourbeillon, A., Theodorescu, D., Tsigonaki, Ch., Tsingarida, A., Vafidis, A., Vitti, P., Voza, O. et Xanthopoulou, M., Travaux menés en collaboration avec l'École française en 1998. (1999) Itanos (Crète orientale), **Bulletin de Correspondance Hellenique** (BCH), 123/II, Etudes Chroniques et rapports, pp. 515-530.
42. Vafidis, A., Kanasewich, E.R. and Abramovici, F., (1999), Finite Differences in Wave Propagation. In: *Seismic imaging of in situ bitumen reservoirs and the properties of porous media* (E.R. Kanasewich). Alberta Oil Sands Technology and Research Authority (AOSTRA) Technical Publication Series number 15, pp 41-74.
41. Kanasewich, E.R., Kalantzis, F., Kelamis, P., Tsingas, C. and Vafidis, A., (1999), Attenuation (Q) In: *Seismic imaging of in situ bitumen reservoirs and the properties of porous media* (E.R. Kanasewich). Alberta Oil Sands Technology and Research Authority (AOSTRA) Technical Publication Series number 15, pp 75-101.
40. Macrides, C., Kanasewich, E.R., Phadke, S. and Vafidis, A., (1999) Hole to Hole Seismic Imaging In: *Seismic imaging of in situ bitumen reservoirs and the properties of porous media* (E.R. Kanasewich). Alberta Oil Sands Technology and Research Authority (AOSTRA) Technical Publication Series number 15, pp 119-194.
39. Kalantzis, F., Kanasewich, E.R. and Vafidis, A., (1999), Elastic Imaging in 2-D and 3-D In: *Seismic imaging of in situ bitumen reservoirs and the properties of porous media* (E.R. Kanasewich). Alberta Oil Sands Technology and Research Authority (AOSTRA) Technical Publication Series number 15, pp 297-335.
38. Greco, E., Kalpaxis, Th., Schnapp, A., et Viviers, D., avec la collaboration de I. D'Ambrosio, D'Hautcourt, A., Duboeuf, P., Françoise, J., Guy, M., Licoppe, C., Mylona, D., Osanna, M., Sarris, A., Schnapp-Gourbeillon, A., Siard, H., Theodorescu, D., Tsigonaki, Ch., Vafidis, A. et Xanthopoulou, M., Travaux menés en collaboration avec l'École française en 1996. (1997). Itanos (Crète orientale), **Bulletin de Correspondance Hellenique** (BCH), 121/II, Etudes Chroniques et rapports, pp. 809-824.
37. Tsingas, C. and Vafidis, A., (1997), Workshop on Practical Methodologies for Seismic Imaging and Reservoir Characterization in review, **First Break**, Vol. 15, No 2, pp. 57-58.

36. Greco, E., Kalpaxis, Th., Schnapp, A. and Viviers, D. avec la collaboration de I. D'Ambrosio, Guy, M., Licoppe, C., Osanna, M., Sarris, A., Schnapp-Gourbeillon, A., Siard, H., Theodorescu, D., Tsigonaki, Ch., Tsingarida, A., Vafidis, A. et Xanthopoulou, M., (1996), Itanos (Crète orientale), **Bulletin de Correspondance Hellenique** (BCH), 120/II, Etudes Chroniques et rapports, pp. 941-952.
35. Vafidis, A., Sarris, A., Economou, N. and Kalpaxis, A., (1996), Geophysical survey in the archaeological site of Itanos, Lasithi, Greece, Proceedings of the 1st Congress of the Balkan Geophysical Society, Athens, Greece, September 23-27, pp. 54-55.
34. Vafidis, A., (1996), Seismic reflection tomography, Monograph, p. 97, Applied Geophysics Laboratory, Mineral Engineering Department, Technical University of Crete, Greece.
33. Vafidis, A., (1996), 3-D Reflection method: A review of the modeling and imaging techniques, Proceedings of the Carpatho-Balkan Meeting, September 1995, Athens, Greece and **Mineral Wealth**, November-December, pp. 41-48.
32. Louis, Y. and Vafidis, A., (1996), Comparison of Forward Modelling and Inversion of Seismic First Arrivals. A case study over Monastirion Subway station, Proceedings of the 1st Congress of the Balkan Geophysical Society, Athens, Greece, September 23-27, pp. 562-563.
31. Kalantzis, F., Vafidis, A. and Kanasevich, E.R., (1996), 3-D Acoustic reverse-time migration with a stress-velocity finite difference method, **Journal of Seismic Exploration**, vol. 5, No 3, pp. 229-244.
30. Kalantzis, F., Vafidis, A., Kanasevich, E.R. and Kostykevich, A., (1996), Seismic monitoring and modeling of a EOR Project at Cold Lake Alberta, Canada, **Canadian Journal of Exploration Geophysics**, Vol. 32, No 2, pp 77-89 and Proceedings of the 58th International Annual Meeting, European Association of Geoscientists and Engineers, Amsterdam, The Netherlands, June 3-7, 1996, pp. 71-72.
29. Kalantzis, F., Kanasevich, E.R., Vafidis, A. and Kostykevich, A., (1996), 3D Seismic reflection modeling and imaging at ESSO's Cold Lake D3 EOR Project, **First Break**, Vol 14, No 3, pp. 91-103.
28. Dai, N., Kanasevich, E.R. and Vafidis, A., (1996), "Seismic migration and absorbing boundaries with an one-way wave system for heterogeneous media", **Geophysical Prospecting**, Vol. 44, pp. 719-739.
27. Kalpaxis, A., Schnapp, A., Vivier, D., Guy, M., Licoppe, C., Schnapp-Courbeillon, A., Siard, H., Theodorescu, D., Tsigonaki, C., Vafidis, A. and Xanthopoulou, M., (1995), Rapport sur les travaux menés en collaboration avec l' école Française d' Athènes en 1994 (Itanos, Crète orientale), **Bulletin de correspondance Hellenique**, 119, pp. 713-736.
26. Tsokas, G.N., Papazachos, C.B., Vafidis, A., Loukoyiannakis, M.Z., Vargemezis, G. and Tzimeas, K., (1995), The detection of monumental tombs buried in tumuli by seismic refraction, **Geophysics**, Vol 60, pp. 1735-1741.
25. Vafidis, A., (1995), Seismic Data Processing Techniques for 3-D Complex Media, **Monograph**, Seismology Lab, Department of Physics, University of Alberta.
24. Kalantzis, F., Vafidis, A., and Kanasevich E.R. (1995), Fast and accurate 3-D finite differences seismic modeling, Proceedings of the CSEG National Convention, May 9-11, Calgary, Alberta, pp. 80-81.
23. Louis, Y., Vafidis, A., Karantonis, G. and Vessnaver, A., (1995), "A Comparative study of seismic modeling algorithms", Proceedings of the 57th International Annual Meeting, European Association of Geoscientists and Engineers, Glasgow, Scotland, June 6-10, pp. 186-187.
22. Vafidis, A., Tsokas, G.N., Loukoyiannakis, M.Z., Vasiliadis, K., Vargemezis, G. and Papazachos, C.B., (1995), Feasibility study on the use of seismic methods in detecting monumental tombs buried in tumuli, **Archaeological Prospection**, Vol 2, pp. 119-128.

21. Dai, N., Vafidis, A. and Kanasewich, E.R., (1995), "Wave propagation in heterogeneous porous media: A velocity-stress finite difference method", **Geophysics**, vol. 60, No. 2, pp. 327-340.
20. Moschovis, E., Vafidis, A. and Exadaktylos, G., (1994), Seismic tomography method application for the characterization of fractures in marbles, **Greek Marble**, issue 112, Nov-Dec, 43-45.
19. Vafidis, A. and Manouselis, E., (1993), Seismic tomography using the conjugate gradient method, Proceedings of the 2nd International Meeting of the Hellenic Union of Geophysicists, May, Florina, Greece, 266-275.
18. Dai, N., Vafidis, A. and Kanasewich, E.R., (1993), "Finite difference modeling of viscoelastic waves", Proceedings of the CSEG National Convention, May 5-8, Calgary, Alberta pp. 119-120.
17. Dai, N., Vafidis, A. and Kanasewich, E.R., (1993), "Migration and absorbing boundaries with the one-way wave equation", Proceedings of the 55th International Annual Meeting, European Association of Exploration Geophysicists, Stavanger, Norway, June 6-10, pp. 186-187.
16. Kalantzis, F., Dai, N., Kanasewich, E.R., Phadke, S. and Vafidis, A., (1993), "2D and 3D seismic reflection modeling and imaging using vector and parallel computers", Proceedings, SS'93 Supercomputing Symposium, Calgary, AB, June 1993, pp. 25-32.
15. Vafidis, A., Dai, N. and E.R., Kanasewich, (1993), "Wave propagation in viscoacoustic heterogeneous media: A velocity-pressure finite difference method", **Can. Journal of Exploration Geophysicists**, vol. 29, No. 2, pp. 402-410.
14. Dai, N., Vafidis, A. and Kanasewich, E.R., (1993), "Composite absorbing boundaries for the numerical simulation of seismic waves", **Bulletin of Seismological Society of America**, vol. 84, No. 1, pp. 185-191.
13. Dai, N., Kanasewich, E.R. and Vafidis, A., (1993), Composed Absorbing Boundaries for Seismic Modeling, Proceedings 63rd Annual International Meeting, Society of Exploration Geophysicists, Washington DC, 26-30 September, pp. 1052-1055.
12. Vafidis, A., Abramovici F. and Kanasewich, E.R., (1992), "Elastic wave propagation using fully vectorized high order finite differences", **Geophysics**, vol 57, pp. 218-232.
11. Dai, N., Kanasewich, E.R. and Vafidis, A., (1992), "High order finite difference simulation of seismic waves in porous media", Proceedings of the CSEG National Convention, May 5-8, Calgary, Alberta pp. 60-61.
10. Dai, N., Kanasewich E.R. and Vafidis, A., (1992), "Simulation of seismic waves in porous media", Proceedings 62nd Annual International Meeting, Society of Exploration Geophysicists, New Orleans, LA, October 25-29, pp. 1293-1296.
9. Vafidis, A. and Kanasewich, E.R., (1991), "Modelling cross-hole seismic data in steam injection problems with finite differences", **Can. Journal of Exploration Geophysicists**, vol 27, pp. 23-33.
8. Phadke, S., Vafidis, A., Tsingas, C. and Kanasewich, E.R., (1991), "A comparative study of ray and wave methods in steam injection problems", **AOSTRA Journal of Research**, vol 7, pp. 1-11.
7. Dai, N., Vafidis, A. and Kanasewich, E.R., (1990), "Surface seismic simulations in steam injection EOR problems with finite differences", **AOSTRA Journal of Research**, vol 6, pp. 199-210.
6. Tsingas, C., Vafidis, A. and Kanasewich, E.R., (1990), "Elastic wave propagation in transversely isotropic media using finite differences", **Geophysical Prospecting**, vol 38, December, pp. 933-949.

5. Vafidis, A., (1989), "Seismic wave propagation simulation using supercomputer, Proceedings of the 1st International Meeting of the Hellenic Union of Geophysicists, Athens, Greece, May 1989, pp. 88-98.
4. Kanasewich, E.R., Vafidis, A., Tsingas C., and Le, L.H.T., (1988), "Simulation of seismic wave propagation in oil sands projects", Proceedings 2nd Canadian Supercomputing Symposium, Edmonton, AB, June, pp. 161-170.
3. Vafidis, A., Abramovici F. and Kanasewich, E.R., (1987), "Supercomputer finite-difference algorithms for use in seismic tomography as applied to oil sands projects", Proceedings 57th Annual International Meeting, Society of Exploration Geophysicists, New Orleans, LA, October 11-15, pp. 353-355.
2. Kanasewich, E.R. and Vafidis, A., (1987), "Simulation of seismic wave propagation in oil sands projects", **Supercomputing Letters**, vol 3, no. 3, April, pp. 7-10.
1. Abramovici, F., Vafidis, A. and Kanasewich, E.R., (1987), "Supercomputer algorithms for solving elastic wave propagation problems in two dimensions", Proceedings, 1st Canadian Supercomputing Symposium, Calgary, Alberta, May, pp. 127-138.