

## Curriculum Vitae

**First name(s) / Surname(s)** CHRISTIAN TZANKOV

Address (business) University of Mining and Geology "St. Ivan Rilski", Studentski grad, 1700 Sofia, Bulgaria

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Date of birth 22<sup>nd</sup> May 1977

**Positions (at moment)** Senior Professor Assistant

Dates 2014

**Occupation or position held** Senior Professor Assistant

Name and address of employer University of Mining and Geology "St. Ivan Rilski", Studentski grad, 1700 Sofia, Bulgaria

Dates 2007 – 2014

**Occupation or position held** Professor Assistant

Name and address of employer University of Mining and Geology "St. Ivan Rilski", Studentski grad, 1700 Sofia, Bulgaria

Dates 2007 – 2008

**Occupation or position held** Computer specialist – interpretation of geological and geophysical data, project and report preparation

Name and address of employer "Geotechniks" Ltd., 6-8 Manush Voyvoda Str., 1124 Sofia, Bulgaria

Dates 2002 – 2007

**Occupation or position held** Geophysicist – operator and interpreter of Ground Penetrating Radar

Name and address of employer "Golden Beech Prima BG" Ltd., 6-8 Manush Voyvoda Str., 1124 Sofia, Bulgaria

## Education and training

Dates 2008 – 2013

Title of qualification awarded PhD in Applied Geophysics

Educational institution University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria

Dates 1996 – 2002

Title of qualification awarded Master of Science in Applied Geophysics

Educational institution University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria

Mother tongue(s) Bulgarian

**Other language(s)** Russian, English, German

Self-assessment

European level (\*)

**Russian**

**English**

**German**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Listening		Reading	
C1	Proficient level	C2	Proficient level	B2	Working level	B2	Working level	B1	Working level
C1	Proficient level	C2	Proficient level	C1	Proficient level	C1	Proficient level	B2	Working level
C1	Proficient level	C2	Proficient level	C1	Proficient level	C1	Proficient level	B1	Working level

(\*) [Common European Framework of Reference for Languages](http://europass.cedefop.europa.eu)

## Professional information and applications

Professional and Research interests Geophysical and geological research; modelling; processing of geophysical data; optimization; geoinformatics and GIS; geodesy; archaeology; geocology; code writing  
(key words) MATLAB; hardware and software

Membership of professional and trade organization	Balkan Geophysical Society (BGS) – President Bulgarian Geophysical Society (BgGS) – President European Association of Geoscientists and Engineers (EAGE) – Member Society of Exploration Geophysicists (SEG) – Active member
Publications	<b>Appendix 1</b>
Projects	<b>&gt; 80</b>
Participation in scientific sessions, conferences and congresses	05 – 09.11.2017, 9 <sup>th</sup> Congress of Balkan Geophysical Society, Antalya, Turkey 20.10.2017, 60 <sup>th</sup> International scientific session 2017, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 29-31.05.2017 LVI National Archaeological Conference, Plovdiv, Bulgaria 25.11.2016, 8 <sup>th</sup> National geophysical conference, Sofia, Bulgaria 28.10.2016, 59 <sup>th</sup> International scientific session 2016, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 25 – 28.05.2016, LV National Archaeological Conference, Stara Zagora, Bulgaria 19 – 20.04.2016, XIV National science-practical session for young engineers, Sofia, Bulgaria 20.10.2015, 58 <sup>th</sup> International scientific session 2015, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 04 – 08.10.2015, 8 <sup>th</sup> Congress of Balkan Geophysical Society, Chania, Greece 20 – 23.05.2015, 7 <sup>th</sup> National geophysical conference with international participation “Geophysics 2015”. 25 years Bulgarian Geophysical Society, Sofia, Bulgaria 06 – 07.11.2014, XXIV International Symposium: Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Sofia, Bulgaria 23 – 24.10.2014, 57 <sup>th</sup> International scientific session 2014, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 24 – 26.09.2014, XX Congress of the Carpathian Balkan Geological Association, Tirana, Albania 16 – 19.06.2014, 76 <sup>th</sup> EAGE Conference & Exhibition 2014 “Experience the Energy”, Amsterdam, Netherlands 17 – 18.10.2013, 56 <sup>th</sup> International scientific session 2013, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 07 – 08.11.2013, XXIII International Symposium: Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Sofia, Bulgaria 06 – 10.10.2013, 7 <sup>th</sup> Congress of Balkan Geophysical Society, Tirana, Albania 29 – 31.05.2013, 3 <sup>rd</sup> International Geosciences Student Conference, Belgrade, Serbia 18 – 19.10.2012, 55 <sup>th</sup> International scientific session 2012, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 23 – 24.04.2012, X National science-practical session for young engineers, Sofia, Bulgaria 19 – 20.10.2011, 54 <sup>th</sup> International scientific session 2011, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 03 – 06.10.2011, 6 <sup>th</sup> Congress of Balkan Geophysical Society, Budapest, Hungary 17.12.2010, 6 <sup>th</sup> National geophysical conference “20 years Bulgarian Geophysical Society”, Sofia, Bulgaria 19 – 20.10.2010, 53 <sup>rd</sup> International scientific session 2010, University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria 23 – 24.09.2010, XX International Symposium: Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Albena Resort, Bulgaria 07-11.06.2010, 28 <sup>th</sup> IUGG conference on Mathematical Geophysics, Pisa, Italy 29 – 30.2008, International Conference on Geoarcheology & Archeomineralogy, Impact of Earth sciences in the study of material culture, Sofia, Bulgaria
Specialization abroad (for last 5 year)	05.2009 – 09.2009, Information Technology for radioactive waste management: Creating of generalized conceptual model for the current Bulgarian's waste disposal concepts using COde for Modelling PARTly Saturated Soil (COMPASS). GRC, Cardiff University, UK
Other professional skills	26 – 28.02.2016, Primary aviation training course for remotely piloted aircraft systems (RPAS). Certificate A, No 00027 / 28.02.2016, RPAS Association Bulgaria, Sofia, Bulgaria. 09.2009 – 12.2011, Multidisciplinary training of young scientists “A way for natural risks management “.NIGGG–BAS, Sofia, Bulgaria

## PUBLICATIONS

2008-2018

1. Dimovski, S., N. Stoyanov, **Ch. Tzankov**, At. Kisyov. Application of electrical resistivity tomography for studying fissure-karst water-bearing complexes. Proc. 9th Congress of Balkan Geophysical Society, 5-9 November 2017, Antalya, Turkey, Paper 44018. doi: 10.3997/2214-4609.201702529, ISSN: 2214-4609.
2. **Tzankov, Ch.**, At. Kisyov, P. Leshtakov. Geophysical studies of traces of ancient mining and metallurgy in the eastern part of the Srednogorian metallogenic zone. Proc. 9th Congress of Balkan Geophysical Society, 5-9 November 2017, Antalya, Turkey. doi: 10.3997/2214-4609.201702600, ISSN: 2214-4609.
3. Dimovski, S., N. Stoyanov, **Ch. Tzankov**, At. Kisyov. A geophysical approach for mapping of abandoned mining workings and unconsolidated zones in coal mining areas. Journal of Mining and Geological Sciences, Vol. 60, Part 1: Geology and Geophysics, 2017, 99-103. ISSN: 2535-1176.
4. Grigorova, M., **Ch. Tzankov**, At. Kisyov, Iv. Koprev, S. Dimovski. Complex geophysical prospection – electrical resistivity tomography and geomagnetic survey for detecting limestone inclusions in Mini Maritsa Iztok EAD. Proc. 3rd International Scientific Conference Geobalcanica, Skopje, Macedonia, 20-21 May 2017, 31-37. doi: 10.18509/GBP.2017.05, udc: 552.541:550.832(497.2), ISSN: 1857-7636.
5. Gergova, D., J. Anastasov, J. Desideri, M. Gios, Fr. Broes, K. Fechner, **Ch. Tzankov**, Ts. Popova, G. Kottas, D. Girardet, G. Radoslavova, St. Savova, M. Besse. Archaeological investigations of tumulus 24, eastern necropolis of the Sboryanovo national reserve.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 213-215. ISSN: 1313-0889.
6. Gergova, D., J. Anastasov, J. Desideri, M. Gios, Fr. Broes, K. Fechner, **Ch. Tzankov**, Ts. Popova, G. Kottas, D. Girardet, G. Radoslavova, St. Savova, M. Besse. Archaeological investigations of tumulus 39, eastern necropolis of the Sboryanovo national reserve.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 215-217. ISSN: 1313-0889.
7. Leshtakov, P., **Ch. Tzankov**, At. Kisyov. Geophysical survey of the late Neolithic site of Budzhaka, Sozopol.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 757-760. ISSN: 1313-0889.
8. Zidarov, P., T. Valchev, St. Bakardzhiev, **Ch. Tzankov**, At. Kisyov, R. Komp. Integrated remote sensing survey in and around the ancient town of Cabyle.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 750-753. ISSN: 1313-0889.
9. Leshtakov, P., Em. Nankov, **Ch. Tzankov**, At. Kisyov, Y. Ilieva, Al. Tsoneva, D. Dryanovski, Iv. Ivanov. Geophysical survey on a multilayered fortified site from the 3rd millennium BC – 1st millennium ad near the village of Sotirya, Sliven municipality.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 747-750. ISSN: 1313-0889.
10. Torbatov, S., **Ch. Tzankov**, At. Kisyov, B. Ivanova. Geophysical survey of the late roman road station in the Anishte locality, village of Granichak, Belogradchik municipality.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 726-729. ISSN: 1313-0889.
11. Dimitrov, Zdr., K. Velkovsky, **Ch. Tzankov**, At. Kisyov, F. Filipova, I. Tsvetkov. Geophysical survey on the archaeological site "Ancient Bononia", Kaleto quarter, Vidin.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 723-726. ISSN: 1313-0889.
12. Aladzhov, An., K. Velkovski, **Ch. Tzankov**, Ст. Стойчев. Search and localization of archaeological sites by geophysical methods in the area of Ahtopol.\* Archaeological Discoveries & Excavations in 2016, NIAM-BAS, 2017, 760-763. ISSN: 1313-0889.
13. Y. Ivanov, At. Kisyov, **Ch. Tzankov**, S. Nikolov. Application of electrical resistivity tomography for investigation of landslides. Proceedings of International forum-competition for young scientists "Problems of the subsoil use", 19-21 April 2017, Saint Petersburg, Part II, 62 – 65. ISBN: 978-5-94211-781-8.
14. Evlogiev, Y., **Ch. Tzankov**, Ev. Evlogiev, V. Popov, Iv. Vaisov. Geological and geomorphological conditions of a Late Neolithic site, found west of the Aldomirovtzi village, Sofia district. National Conference "GEOSCIENCES 2016" with International Participation – Short Communications, December 7-8, 2016, Sofia, 171-172. ISSN: 1313-2377.
15. Ivanov, Y., At. Kisyov, **Ch. Tzankov**. Radiometric Survey of Vromos Bay, Black Sea.\* Proceedings of VIII National geophysical conference, 25 November 2016, Sofia. (on CD) ISSN: 1314-2518.
16. Yosifov, D., R. Radichev, **Ch. Tzankov**. Depth structures of Madan orefield and their metallogenic importance.\* Proceedings of VIII National geophysical conference, 25 November 2016, Sofia. (on CD) ISSN: 1314-2518.
17. Radichev, R., Em. Mihaylov, D. Dimitrov, **Ch. Tzankov**. Long-standing gravimetric measurements of the Krupnik polygon. Annual of UMG "St. Ivan Rilski", Vol. 59, 2016, pp 174-178. ISSN: 1312-1820.

18. **Tzankov, Ch.**, Iv. Parushev. Application of non-professional remotely piloted aircraft systems (RPAS) for solving practical problems.\* Annual of UMG "St. Ivan Rilski", Vol. 59, 2016, pp 138-187. ISSN: 1312-1820.
19. Velkovski, K., H. Tsankov, P. Zidarov. Complex Geophysical Research Methods in Archaeology – 2015 Results. 25 – 28.05.2016, LV National Archaeological Conference, Stara Zagora.
20. Tashev, B., **Ch. Tzankov**, At. Kisyov, B. Rangelov, Iv. Parushev, M. Alexiev, Y. Ivanov. Advanced students practice supported by SEG ("Applied Geophysics" Department – MGU). Proceedings of 44<sup>th</sup> National conference about the problems of the education in physics: „Unformal education in physics and astronomy“, 7-10 April 2016, Yambol, 99-102. ISBN: 978-954-580-361-1.
21. **Tzankov, Ch.**, At. Kisyov. Application of the remotely piloted aircraft systems (RPAS) for remote sensing. XIV National science-practical session for young engineers, 19-20 April 2016 (on CD) ISSN: 1314-8913.
22. Leshtakov, P., M. Ivanova, G. Samichkova, Y. Ilieva, T. Dimitrov, Fr. Fuchs, **Ch. Tzankov**, At. Kisyov. Archaeological excavations and geophysical survey at the Avren-Bobata late chalcolithic fortified site, Varna municipality.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 124-127. ISSN: 1313-0889.
23. Kisyov, K., **Ch. Tzankov**. Geophysical surveys on Nebet tepe, Plovdiv.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 245-248. ISSN: 1313-0889.
24. **Tzankov, Ch.**, Sv. Venelinova, V. Grigorov. Geophysical survey on site "Settlement" in the Sadina area, near Veselinovo village, Smyadovo municipality.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 908-910. ISSN: 1313-0889.
25. Zidarov, P., V. Petrova, **Ch. Tzankov**, At. Kisyov, K. Dimitrov, I. Petri. Thracian enclosures: Geophysical survey between Hadzhidimitrovo and Chokoba villages.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 918-922. ISSN: 1313-0889.
26. Mihaylov, Ph., **Ch. Tzankov**. Geophysical survey of the necropolis between Dren and Delyan villages, Dupnitsa municipality.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 924-928. ISSN: 1313-0889.
27. Leshtakov, P., **Ch. Tzankov**, At. Kisyov, K. Dimitrov. Geophysical survey of an ancient mine and metallurgical centre in ore deposit Rosen, Medni Rid. \* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 937-941. ISSN: 1313-0889.
28. Leshtakov, P., **Ch. Tzankov**, At. Kisyov, K. Dimitrov. Geophysical survey of an ancient mine and metallurgical center in ore deposit Propadnala Voda, Medni Rid.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 941-944. ISSN: 1313-0889.
29. Leshtakov, P., **Ch. Tzankov**, At. Kisyov, K. Dimitrov. Geophysical survey in a prehistoric site in the Alepu lagoon area, Sozopol municipality.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 944-948. ISSN: 1313-0889.
30. Aladzhov, An., **Ch. Tzankov**, K. Velkovsky, L. Trendafilova, At. Orachev. Preliminary geophysical (geomagnetic, geo-radar and electro-resistive) studies of antique and medieval fortress Ahtopol.\* Archaeological Discoveries & Excavations in 2015, NIAM-BAS, 2016, 948-954. ISSN: 1313-0889.
31. **Tzankov, Ch.** SYstem for Modelling and INterpreting of GRavity ANomalies (SYMINGRAN). 8th Congress of the Balkan Geophysical Society. 5-8 October 2015, Chania, Greece. ISSN: 2214-4609.
32. **Tzankov, Ch.**, Kisyov, At. Experimental georadar survey on Pamuk mound located near Brestovitsa village in Plovdiv region\*. Annual of UMG "St. Ivan Rilski", Vol. 58, I, 2015, pp 242-246.
33. Radichev, R., Mihaylov, Em., **Tzankov, Ch.**, Kisyov, At. Gravimetric systems used in Republic of Bulgaria and evaluation of the accuracy of IGSN-71 and UNIGRACE systems of points of gravimetric networks.\* Annual of UMG "St. Ivan Rilski", Vol. 58, I, 2015, pp 146-152.
34. **Tzankov, Ch.**, Radichev, R., Yankova, M., Kisyov, At., Kirilov, N. Geophysical surveys for archeology investigations in archaeological reserve "Sborianovo".\* 7<sup>th</sup> National geophysical conference with international participation "Geophysics 2015". Sofia, 20-23. ISSN: 1314-2518.
35. Stavrev, P., **Tzankov, Ch.** A remarkable discovery of the applied geophysics in the archaeology – The Caryatids Royal Tomb near Sveshtari.\* 7<sup>th</sup> National geophysical conference with international participation "Geophysics 2015". Sofia, 20-23. ISSN: 1314-2518.
36. Velkovsky, K., Dimitrov, Zdr., **Tzankov, Ch.** Geophysical survey of a late antique object along the Struma Motorway, LOT 2 between km 343+740 and km 343+840, near the village of Mursalevo.\* 7<sup>th</sup> National geophysical conference with international participation "Geophysics 2015". Sofia, 20-23. ISSN: 1314-2518.
37. Radichev, R., Mihaylov, Em., Milev, G., Dimovski, St., **Tzankov, Ch.**, Kisyov, At., Kirilov, N. Short history of developing gravity maps of Bulgaria at scales 1:100 000, 1:200 000, 1:400 000 and 1:500 000 as well as map of the quasigeoid for the purpose of geophysics and geodesy.\* Geodesy, Cartography and Land Management, vol. 3-4, 2015, 37-42.

38. **Tzankov, Ch.**, Dimovski, St., Kisyov, At., Milev, G., Mihaylov, Em. Gravimetric quasigeoid in Bulgaria from end-number of point masses.\* *Geodesy, Cartography and Land Management*, vol. 1-2, 2015, 3-8.
39. Kisyov, K., **Tzankov, Ch.**, Kisyov, At. Geophysical studies in mounds No 1, 2 и 3 in Mushovi mogili area, Zhitnitsa village, Kaloyanovo Municipality, Plovdiv Province.\* *Archaeological Discoveries & Excavations in 2014*, NIAM-BAS, 2015, pp 247-248.
40. Gergova, D. **Tzankov, Ch.**, Kisyov, At., Yankova, M., Kirilov, N. Archaeological rescue survey of Cholakova mound near Staro Zhelezare village Municipality Hisarya – Geophysical surveys.\* *Archaeological Discoveries & Excavations in 2014*, NIAM-BAS, 2015, pp 261-264.
41. **Tzankov, Ch.**, Grigorova, G., Venelinova, Sv. Geophysical study in object "Selishte" in Kenevira area, Varbitsa Municipality.\* *Archaeological Discoveries & Excavations in 2014*, NIAM-BAS, 2015, pp 855-857.
42. Rangelov, B., Dimovski, St., Radichev, R., **Tzankov, Ch.**, Kisyov, At., Gruev, Ts. Shallow Geophysics – a Complex Study of the Surface Effects in the area of Pernik Town (22 May, 2012, M5,8). XXIV International Symposium: Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Sofia, Bulgaria.
43. Dimovski, St., Stoyanov, N., **Tzankov, Ch.**, Kisyov, At. An integrated geophysical approach for locating water-permeable zones in the embankment wall of a surface water body.\* *Annual of UMG "St. Ivan Rilski"*, Vol. 57, 2014, pp 89-94.
44. Rangelov, B., **Tzankov, Ch.**, Gruev, Ts. Geophysical complex study of the shallow geology in the area of Pernik earthquake 22<sup>nd</sup> may, 2012\*. *Annual of UMG "St. Ivan Rilski"*, Vol. 56, 2013, pp 101-105.
45. Radichev, R., Dimovski, St., Rangelov, B., Kostyanov, S., Trapov, A., **Tzankov, Ch.**, Mihailov, Em., Kisyov, At., Stoyanov, V., Kirilov, N. Development of the geophysical data base for the Black Sea region as part of the 7th Framework Programme project "Upgrade Black Sea Scientific Network". *Bul. Shk. Gjeol (Special Issue: Proceedings of XX CBGA Congress, Tirana, Albania, 24-26 September 2014)*, vol. 2, 2014, 351-354.
46. Avdev, St., **Tzankov, Ch.**, Dimovski, St., Radichev, R., Kisyov, At. Method for modeling of high-resolution quasi-geoids. *Bul. Shk. Gjeol (Special Issue: Proceedings of XX CBGA Congress, Tirana, Albania, 24-26 September 2014)*, vol. 2, 2014, 247-250.
47. Milev, G., Mihaylov, Em., **Tzankov, H.**, Dimovski, St. Systematization and Adducing (Adjusting) of the Gravimetric Points on the Territory of Bulgaria into Unified System.\* *Geodesy, Cartography and Land Management*, vol. 5-6, 2013, 3-8.
48. Rangelov, B., Radichev, R., Dimovsky, St., Paskaleva, Iv., **Tzankov, Ch.**, Kisyov, At., Yankova, M., Iliev, T., Vassileva, M. Complex geophysical investigations – basics to the geodynamic model and seismic monitoring system in Pernik region – project SIMORA.\* *Annual of UMG "St. Ivan Rilski"*, Vol. 56, 2013, pp 150-156.
49. **Tzankov, Ch.**, Papratilov, Iv. Program for solving the inverse gravity problem by optimizing models from a finite number of prisms\*. *Annual of UMG "St. Ivan Rilski"*, Vol. 56, 2013, pp 157-162.
50. Demireva, El., **Tzankov, Ch.** GPR through a Water Mirror Defining the Topography of a Bottom and the Depth of the Sediments beneath the Water Layer. Poster 18921. 7th Congress of Balkan Geophysical Society, Tirana, Albania, 7-10 October 2013.
51. **Tzankov, Ch.**, Avdev, St., Radichev, R., Dimovski, St., Kisyov, At. Method for Modelling of High-resolution Quasi-geoids. Poster 18663. 7th Congress of Balkan Geophysical Society, Tirana, Albania, 7-10 October 2013.
52. Rangelov, B., Paskaleva, Iv., Radichev, R., Dimovsky, St., **Tzankov, Ch.**, Kisyov, At., Yankova, M. Complex Geophysical Investigation for Development of Seismic Monitoring and Quasi EWS around Pernik City. Poster 18616. 7th Congress of Balkan Geophysical Society, Tirana, Albania, 7-10 October 2013.
53. Radichev, R., Dimovski, St., **Tzankov, Ch.**, Kisyov, At. Geophysical surveys for near surface structural studies.\* *Minno delo i Geologia journal*, vol. 7/8, 2013, pp 38-43.
54. Rangelov, B., Paskaleva, Iv., Radichev, R., Dimovsky, St., **Tzankov, Ch.**, Kisyov, At., Yankova, M., Iliev, T., Vassileva, M. The complex geophysical investigations in the Pernik area.\* 13<sup>th</sup> International Scientific Conference VSU'2013, 6-7 June 2013, Conf. proc., vi-7-vi-11.
55. **Tzankov, Ch.**, Yankova, M. The georadar enters extensively in field geophysics.\* *Minno delo i Geologia journal*, vol. 5/6, 2013, pp 31-35.
56. Dimovski, St., Stoyanov, N., **Tzankov, Ch.**, Kisyov, At. Electrotomographic surveying in the region of the Zograf monastery on mount Athos.\* *Annual of UMG "St. Ivan Rilski"*, Vol. 55, 2012, pp 96-101.
57. Papratilov, I., **Tzankov, Ch.** Comparing the accuracy and speed of calculation of two vertical rectangular prisms in MATLAB environment. 3<sup>rd</sup> International Geosciences Student Conference, 29-31 May 2012 (p 6). Belgrade: AGES
58. Hristov, St., Kisyov, At., **Tzankov, Ch.** A georadar survey combined with permittivity determination in marbles. 3<sup>rd</sup> International Geosciences Student Conference, Belgrade, Serbia, 29-31 May 2012 (p 6). Belgrade: AGES
59. **Tzankov, Ch.** Comparing the CPU and the GPU performance during computation of applied geophysical problems involving large databases.\* *Annual of UMG "St. Ivan Rilski"*, Vol. 54, 2011, pp 161-166.

60. Avdev, S., **Tzankov, Ch.**, Radichev, R., Dimovski, St., Kisyov, At. Method for modelling of high-resolution geoids.\* Annual of UMG "St. Ivan Rilski", Vol. 54, 2011, pp 101-105.
61. Avdev, S., **Tzankov, Ch.** A technique for modelling Earth's geoid and local geoids with point-masses. Poster P13. 6th Congress of Balkan Geophysical Society, Budapest, Hungary, 3-6 October 2011.
62. **Tzankov, Ch.**, Radichev, R. Optimization of 2D gravity models in MATLAB environment.\* 6<sup>th</sup> National geophysical conference, Sofia, 17<sup>th</sup> December 2010, ISSN-1314-2518.
63. **Tzankov, Ch.**, Radichev, R. Algorithms and programmes for interpretation of 2D gravity anomalies developed in MATLAB.\* Annual of UMG "St. Ivan Rilski", Vol. 53, 2010, pp 174-181.
64. **Tzankov, Ch.**, Radichev, R. Interpretation of the anomalous magnetic field in the perspective area "Rakitna" for determination the thickness of the sediments and the depth to the underlying bedrock.\* Annual of UMG "St. Ivan Rilski", Vol. 53, 2010, pp 182-187.
65. Avdev, S., **Tzankov, Ch.** Presenting of Earth's gravity field with optimized models of point masses. Poster S5-01. 28th IUGG Conference on Mathematical Geophysics, Pisa, Italy, 7-11 June 2010.
66. Tsvetkov, A., Tzankov, H. Schematic map of volcanic centres and intrusive bodies in Eastern Srednogie and Eastern Rhodopes - Extended Abstract. Poster 6501. 5th BGS Congress, Belgrade, Serbia, 10-16 May 2009.
67. Avdev, S., **Tzankov, Ch.** Ancient gold mining at the southern slopes of the Vitosha and Verila mountains. International Conference of Geoarchaeology and Archaeomineralogy, Sofia, Bulgaria, 29-30 October 2008, pp 253-257.

*\* The original publication is in Bulgarian*