

# ARISTEIDIS G. KOUTROULIS

## CURRICULUM VITAE

### PERSONAL DETAILS

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Place and Date of birth      Chania, Crete, Greece    30 April 1977  
E-mail:                              koutroulis@hydrogaia.gr  
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Address:                            Technical University of Crete, School of Environmental Engineering  
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### EDUCATION

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- 2011      Doctoral Degree, Department of Environmental Engineering, Technical University of Crete, Greece.  
            Doctoral Thesis: “Extreme hydrometeorologic phenomena and impact of climatic change. Application in the region of Crete, Greece.”
- 2005      MAsc Department of Environmental Engineering, Technical University of Crete, Greece.  
            Master Thesis: “Simulation of flash flood events at poorly gauged basins. Application at the Giofiros pilot river basin, Crete.”
- 2002      Engineering Diploma, Department of Mineral Resources Engineering, Technical University of Crete, Greece.  
            Thesis title: “Development, construction and application of a specialized flow system for simulating efficient cuttings transport in horizontal and deviated Wellbores in Coil Tubing Drilling.”

### RESEARCH PROJECT PARTICIPATION

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- (R17)    **IMPRESX**: IMproving PREdictions and management of hydrological Extremes (Research and Innovation Action, H2020- WATER-2a-2014), (10/2015-today).
- (R16)    **HELIX**: High-End cLimate Impacts and eXtremes (Collaborative Large Scale Integrated Project, FP7-ENV.2013.6.1-3) (11/2013-10/2017).
- (R15)    **RECARE**: Preventing and Remediating degradation of soils in Europe through Land Care (Collaborative Large Scale Integrated Project, FP7-ENV.2013.6.2-4), (11/2013-10/2018).
- (R14)    **CASCADE**: CAstrophobic Shifts in drylands; how CA n we prevent ecosystem DEgradation (Collaborative Large Scale Integrated Project, FP7-ENV.2011.2.1.4-2), (5/2012-6/2016).
- (R13)    **REINFORCE**: Remote sEnsing meteorologIcal data fusioN for effective Flood mitigatiOn and foReCasting over Eastern Mediterranean, GSRT, ARISTEIA II Action, Greece (7/2014-8/2015).
- (R12)    **IMPACT2C**: Quantifying projected impacts under 2°C warming. (Collaborative Large Scale Integrated Project, FP7-ENV.2011.1.1.6-1), (10/2011-09/2015).
- (R11)    **ECLISE**: Enabling CLimate Information Services for Europe. (Collaborative project, FP7-ENV.2010.1.1.4-1), (2/2011-05/2014).
- (R10)    **SATFLOOD**: Integrated Use of Satellite Remote Sensing and Hydraulic Modelling for the Flood Risk Assessment at Catchment Scale in Cyprus, Institute for Research Advancement, Nicosia, Cyprus, (11/2011-11/2013).

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<sup>1</sup> ULRs:[[Google Scholar](#)], [[ResearcherID](#)], [[Research Gate](#)], [[ORCID](#)], [[Hydrogaia](#)]

- (R09) **COMBINE**: Comprehensive Modelling of the Earth System for Better Climate Prediction and Projection. (Collaborative Large Scale Integrated Project, FP7-ENV.2008.1.1.4.1), (5/2009-10/2013).
- (R08) **SIMFLOOD**: High Resolution Satellite Imagery for Floodplain Mapping, European Space Agency (5/2009-8/2011).
- (R07) **WATCH**: WATer & global CHance (Collaborative Large Scale Integrated Project, FP6-ENV.6.3. II.1.1), (2/2007-7/2011).
- (R06) **SCENES**: Water Scenarios for Europe and for Neighboring States (Collaborative Large Scale Integrated Project, FP6-ENV.6.3. II.4.1), (11/2006-4/2011).
- (R05) **HYDRATE**: Hydrometeorological data resources and technologies for effective flash flood forecasting (Specific Targeted Research Project – FP6 SUB-PRIORITY 1.1.6.3), (9/2006-7/2010).
- (R04) **FFF**: Flash Flood Forecasting with the Use of C-Band Radar in the Island of Crete: : General Secretariat for Research and Technology, International S & T Cooperation Directorate - Bilateral Relations Division, Scientific and Technological Cooperation between RTD Organizations in Greece and RTD Organizations in USA & Canada, (11/2006-3/2008).
- (R03) **HarmoniRiB**: Harmonized Techniques and Representative River Basin Data for Assessment and Use of Uncertainty Information in Integrated Water Management (Research and technological development (RTD) project, FP5- EVK1-CT-2002-00109), (10/2002-7/2007).
- (R02) **BEWARE**: Best Water use innovative Practices towards a Sustainable Water Resources Management, CRINNO-Regional Program of Innovative Action, European Community innovative Program, (1/2003-12/2005).
- (R01) **Environmental Database for Chania Prefecture**: Web-Site Development, Local Authority of Municipalities of Chania, Crete (9/2002-6/2003).

## TEACHING EXPERIENCE

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2001-2019 Teaching, and co-lecturing a number of courses at the Technical University of Crete, Greece:

- *Hydraulics II* Co-lecturing: 7 semesters (plus ERASMUS)
- *Hydraulic Works* Teaching assistantship and tutorial exercises: 4 semesters
- *Hydrology* Teaching assistantship tutorial exercises: 3 semesters
- *Introduction to Programming* Teaching: 1 semester
- *Fluid Mechanics* Laboratory: 4 semesters
- *Water Supply and Drainage* Teaching assistantship and tutorial exercises: 4 semesters
- *Environmental Hydraulics* Teaching assistantship and tutorial exercises: 5 semesters
- Numerical Methods in Teaching tutorial exercises: 1 semester
- Environmental Engineering
- Coastal Engineering Teaching tutorial exercises: 1 semester
- Computational Hydraulics Teaching: 1 semester
- Hydraulics for Teaching: 1 semester
- Environmental Engineers

## PUBLICATIONS

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### Published in Peer Reviewed Journals

- (J42) **Koutroulis A.G.**, Papadimitriou L.V., Grillakis M.G., Tsanis I.K., Warren R., Betts R.A., “Global water availability under high-end climate change: a vulnerability based assessment”, *Global and Planetary Change*, 2019, 175, pp.52-63.

- (J41) Shannon, S., Smith, R., Wiltshire, A., Payne, T., Huss, M., Betts, R., Caesar, J., **Koutroulis, A.**, Jones, D., and Harrison, S.: Global glacier volume projections under high-end climate change scenarios, *The Cryosphere*, 13, 325-350, <https://doi.org/10.5194/tc-13-325-2019>, 2019.
- (J40) **Koutroulis, A.G.** “Dryland changes under different levels of global warming”. *Science of the Total Environment*, November 2018. <https://doi.org/10.1016/j.scitotenv.2018.11.215>.
- (J39) Grillakis, M.G., **Koutroulis, A.G.**, Tsanis, I.K., “Improving seasonal forecasts for basin scale hydrological applications” *Water*, October 2018, 10(11), 1593; <https://doi.org/10.3390/w10111593>.
- (J38) **Koutroulis A.G.**, Grillakis, M.G., Tsanis, I.K., Daniela Jacob, 2018 “Mapping the vulnerability of European summer tourism under 2°C global warming”, *Climatic Change*, [doi.org/10.1007/s10584-018-2298-8](https://doi.org/10.1007/s10584-018-2298-8).
- (J37) **Koutroulis A.G.**; Papadimitriou, L.V.; Grillakis, M.G.; Tsanis, I.K.; Wyser, K.; Caesar, J.; Betts, R.A., 2018. Simulating Hydrological Impacts under Climate Change: Implications from Methodological Differences of a Pan European Assessment. *Water*, 10, 1331.
- (J36) Richard A. Betts, Lorenzo Alfieri, John Caesar, Jinfeng Chang, Philippe Ciais, Luc Feyen, Pierre Friedlingstein, Laila Gohar, **Aristeidis Koutroulis**, Lamprini Papadimitriou, Ioannis Tsanis, Klaus Wyser, “Changes in climate extremes, large-scale hydrology and vegetation productivity projected at 1.5°C and 2°C global warming with higher-resolution global climate models”, *Philosophical Transactions of the Royal Society A*, February 2018
- (J35) **Koutroulis, A. G.**, L. V. Papadimitriou, M. G. Grillakis, and I. K. Tsanis,, 2018. Freshwater vulnerability under high end climate change. A pan-European assessment. *Science of The Total Environment* 613, 271-286. [doi.org/10.1016/j.scitotenv.2017.09.074](https://doi.org/10.1016/j.scitotenv.2017.09.074)
- (J34) Jacob, D., Kotova, L., Teichmann, C., Sobolowski, S. P., Vautard, R., Donnelly, C., **Koutroulis, A. G.**, Grillakis, M. G., Tsanis, I. K., Damm, A., Sakalli, A., & van Vliet, M. T. H. (2018). Climate Impacts in Europe Under +1.5°C Global Warming, *Earth’s Future*, 6, 264–285, <https://doi.org/10.1002/2017EF000710>
- (J33) Daliakopoulos, I. N., Panagea, I. S., Tsanis, I. K., Grillakis, M. G., **Koutroulis, A. G.**, Hessel, R., Mayor, A. G., and Ritsema, C. J. (2017) Yield Response of Mediterranean Rangelands under a Changing Climate. *Land Degrad. Develop.*, doi: 10.1002/ldr.2717.
- (J32) Grillakis, M. G., **Koutroulis, A. G.**, Daliakopoulos, I. N., and Tsanis, I. K.: A method to preserve trends in quantile mapping bias correction of climate modeled temperature, *Earth Syst. Dynam.*, 8, 889-900, <https://doi.org/10.5194/esd-8-889-2017>, 2017.
- (J32) Papadimitriou, L. V., **Koutroulis, A. G.**, Grillakis, M. G., and Tsanis, I. K., 2016. Hotspots of sensitivity to GCM biases in global modelling of mean and extreme runoff, *Hydrol. Earth Syst. Sci. Discuss.*, doi:10.5194/hess-2016-547.
- (J30) Grillakis, M.G., **Koutroulis, A.G.**, Komma, J., Tsanis, I.K., Wagner, W. and Blöschl, G., 2016. Initial soil moisture effects on flash flood generation—A comparison between basins of contrasting hydro-climatic conditions. *Journal of Hydrology*, doi:10.1016/j.jhydrol.2016.03.007 (in press).
- (J29) **Koutroulis, A. G.**, M. G. Grillakis, I. K. Tsanis, and L. Papadimitriou, 2016. Evaluation of precipitation and temperature simulation performance of the CMIP3 and CMIP5 historical experiments. *Climate Dynamics*, 47(5-6), pp 1881–1898, doi: 10.1007/s00382-015-2938-x.
- (J28) Daliakopoulos, I.N., Tsanis I.K., **Koutroulis, A.**, Kourgialas N., Varouchakis, E., Karatzas P., Ritsema C., 2016. The Threat of Soil Salinity: a European scale review. *Science of the Total Environment*. 573, 727-739. doi: 10.1016/j.scitotenv.2016.08.177. (Cited 16 times)
- (J27) Grillakis M.G., **Koutroulis A.G.**, Tsanis I.K., 2016. The 2°C global warming effect on summer European tourism through different indices. *International Journal of Biometeorology*, 60(8), pp. 1205-1215. doi: 10.1007/s00484-015-1115-6. (Cited 0 times)
- (J26) Grillakis, M.G., **Koutroulis, A.G.**, Papadimitriou, L.V., Daliakopoulos, I.N. and Tsanis, I.K., 2016. Climate induced shifts in global soil temperature regimes. *Soil Science* 181 (6), 264-272. doi:10.1097/SS.00000000156.
- (J25) Iordanidou, V., **Koutroulis, A. G.**, Tsanis, I.K., 2016. Investigating the relationship of lightning activity and rainfall: Case study for Crete Island. *Atmospheric Research* 172-173, pp. 16–27, doi.org/10.1016/j.atmosres.2015.12.021.

- (J24) Papadimitriou, L.V., **Koutroulis, A.G.**, Grillakis, M.G., Tsanis, I.K., 2016. High-end climate change impact on European runoff and low flows – exploring the effects of forcing biases. *Hydrol. Earth Syst. Sci.*, doi:10.5194/hess-20-1785-2016, 20 (5), pp.1785-1808.
- (J23) Grillakis, M.G., **Koutroulis, A.G.**, Seiradakis, K.D. and Tsanis, I.K., 2016. Implications of 2°C global warming in European summer tourism. *Climate Services*, 1, pp.30-38. (*Cited 3 times*)
- (J22) **Koutroulis, A. G.**, Grillakis M.G., Daliakopoulos, I.N., Tsanis I.K., and Jacob D., 2016. Cross sectoral impacts on water availability at +2 °C and +3 °C for east Mediterranean island states: the case of Crete. *Journal of Hydrology* 532, pp. 16-28. DOI: 10.1016/j.jhydrol.2015.11.015.
- (J21) **Koutroulis, A.G.**, Grillakis, M.G., Tsanis, I.K., Jacob, D., 2015. Exploring the ability of current climate information to facilitate local climate services for the water sector. *Earth Perspectives*. 2, 6. doi:10.1186/s40322-015-0032-5.
- (J20) Iordanidou, V., **Koutroulis, A.G.**, Tsanis, I.K., 2015. Mediterranean cyclone characteristics related to precipitation occurrence in Crete, Greece. *Natural Hazards and Earth System Sciences*, 15 (8), pp. 1807–1819, doi:10.5194/nhess-15-1807-2015.
- (J19) Iordanidou, V., **Koutroulis, A.G.**, Tsanis I.K., 2015. Cyclone-precipitation analysis for the island of Crete. Special Issue of the *Journal of the Black Sea/Mediterranean Environment*, Vol. 21, pp. 70-73.
- (J18) Panagea, I.S., Tsanis, I.K., **Koutroulis, A.G.**, Grillakis, M.G., 2014. Climate change impact on Photovoltaic Energy Output: The case of Greece. *Advances in Meteorology*, Vol. 2014, Article ID: 264506, 11 pages, <http://dx.doi.org/10.1155/2014/264506>.
- (J17) Iordanidou, V., **Koutroulis, A.G.**, Tsanis, I.K., 2014. A Probabilistic Rain Diagnostic Model Based on Cyclone Statistical Analysis. *Advances in Meteorology*, Vol. 2014, Article ID: 498020, 11 pages, <http://dx.doi.org/10.1155/2014/498020>.
- (J16) Alexakis, D.D., M.G. Grillakis, **A.G. Koutroulis**, A. Agapiou, K. Themistocleous, I.K. Tsanis, S. Michaelides, S. Pashiardis, C. Demetriou, K. Aristeidou, A. Retalis, F. Tymvios, D.G. Hadjimitsis. 2014. GIS and Remote Sensing Techniques for the Assessment of Land Use Changes Impact on Flood Hydrology: the Case Study of Yialias Basin in Cyprus. *Natural Hazards and Earth System Sciences*, 14(2), 413-426, doi:10.5194/nhess-14-413-2014.
- (J15) Tsanis, I.K., Seiradakis, K.D., Daliakopoulos I.N., Grillakis, M.G., **Koutroulis, A.G.**, 2013. Assessment of Geoeye-1 Stereo-Pair Generated DEM in Flood Mapping of an Ungauged Basin. *Journal of Hydroinformatics* 16 (1) pp. 1–18, DOI: 10.2166/hydro.2013.197.
- (J14) Tsanis, I.K., Grillakis M.G., **Koutroulis, A.G.**, Jacob D., 2013. Reducing uncertainty on global precipitation projections. *Journal of Earth Science and Climate Change*, 5:1, <http://dx.doi.org/10.4172/2157-7617.1000178>.
- (J13) Grillakis. M. G., **Koutroulis A. G.**, Tsanis I.K, 2013. Multisegment statistical bias correction of daily GCM precipitation output. *Journal of Geophysical Research Atmospheres*, 118 (8), pp. 3150–3162, DOI: 10.1002/jgrd.50323.
- (J12) Alexakis D.D., **Koutroulis, A.G.**, Grillakis, M.G., Agapiou, A., Themistocleous, K., Tsanis, I.K., Hadjimitsis, D.G., 2013. Using spatio-temporal Marcov model for Flood mapping: The case study of Yialias river in Cyprus. *Remote Sensing for Agriculture, Ecosystems, and Hydrology*. SPIE 8887, Remote Sensing for Agriculture, Ecosystems, and Hydrology XV, 88870U, doi: 10.1117/12.2029276.
- (J11) **Koutroulis, A.G.**, Tsanis, I.K., Daliakopoulos, I.N., Jacob, D., 2013. Impact of climate change on water resources status: a case study for Crete Island, Greece. *Journal of Hydrology* 479 (4) pp. 146-158. DOI: 10.1016/j.jhydrol.2012.11.055.
- (J10) Vrochidou A.-E.K., I.K. Tsanis I.K., Grillakis M.G., **Koutroulis A.G.**, 2013. The impact of climate change on hydrometeorological droughts at a basin scale. *Journal of Hydrology*, 476, pp. 290-301, <http://dx.doi.org/10.1016/j.jhydrol.2012.10.046>.
- (J09) **Koutroulis A.G.**, Grillakis, M.G., Tsanis I.K., V. Kotroni and K. Lagouvardos, 2012. Lightning activity, rainfall and flash flooding - occasional or interrelated events? A case study in the island of Crete. *Natural Hazards and Earth System Sciences*, 12(4), 881-891, doi:10.5194/nhess-12-881-2012.

- (J08) Tsanis, I.K., **Koutroulis, A.G.**, Daliakopoulos, I.N., Jacob, D., 2011. Severe climate-induced water shortage and extremes in Crete. *Climatic Change* 106 (4), pp. 667-677. DOI: 10.1007/s10584-011-0048-2.
- (J07) Grillakis. M. G., Tsanis I.K., **Koutroulis A.G.**, 2011. Climate change impact on the hydrology of Spencer Creek watershed in Southern Ontario, Canada. *Journal of Hydrology*, 409(1-2), pp. 1-19, doi:10.1016/j.jhydrol.2011.06.018.
- (J06) **Koutroulis, A.G.**, Tsanis, I.K., 2010. A method for estimating flash flood peak discharge in a poorly gauged basin: Case study for the 13-14 January 1994 flood, Giofyros basin, Crete. *Journal of Hydrology*, 385(1-4), pp.150-164, doi.org/10.1016/j.jhydrol.2010.02.012.
- (J05) **Koutroulis, A.G.**, Tsanis, I.K., Daliakopoulos, I.N., 2010. Seasonality of floods and their hydrometeorologic characteristics in the island of Crete. *Journal of Hydrology* 394 (1-2), pp. 90-100. DOI: 10.1016/j.jhydrol.2010.04.025.
- (J04) **Koutroulis A.G.**, Vrochidou A., Tsanis I.K., 2010. Spatiotemporal characteristics of droughts for the island of Crete. *Journal of Hydrometeorology*, 12, pp. 206-226, doi: 10.1175/2010JHM1252.1.
- (J03) Grillakis, M. G., Tsanis, I. K., and **Koutroulis, A. G.** 2010. Application of the HBV hydrological model in a flash flood case in Slovenia. *Nat. Hazards Earth Syst. Sci.*, 10(12), pp. 2713-2725, doi:10.5194/nhess-10-2713-2010.
- (J02) Daliakopoulos, I.N., Grillakis, E.G., **Koutroulis, A.G.**, Tsanis, I.K., 2009. Tree crown detection on multispectral VHR satellite imagery. *Photogrammetric Engineering and Remote Sensing* 75 (10), pp. 1201-1211.
- (J01) E. Gaume, V. Bain, P. Bernardara, O. Newinger, M. Barbuc, A. Bateman, L. Blaškovičová, G. Blöschl, M. Borga, A. Dumitrescu, I. Daliakopoulos, J. Garcia, A. Irimescu, S. Kohnova, **A. Koutroulis**, L. Marchi, S. Matreata, V. Medina, E. Preciso, D. Sempere-Torres, G. Stancalie, J. Szolgay, I. Tsanis, D. Velasco, A. Viglione, 2009. A compilation of data on European flash floods. *Journal of Hydrology* 367 (1-2), pp. 70-78. DOI: 10.1016/j.jhydrol.2008.12.028.

#### Submitted in Peer Reviewed and Discussion Journals

- (SJ1) Neratzaki S., D. Efstathiou; G. V. Giannakis; M. Kritsotakis; M. G. Grillakis; **A. G. Koutroulis**; I. K. Tsanis; N. P. Nikolaidis. *Climate Change Impact on the Hydrologic Budget of a large Mediterranean Island*. *Hydrological Sciences Journal*, Aug 2018 (under review).

#### Chapters in books

- (B2) Tsanis, I.K., Daliakopoulos, I.N., **Koutroulis, A.**, Karatzas, P., Varouchakis, E., Kourgialas, N., 2015. "Soil Salinization" in "Soil threats in Europe: Status, methods, drivers and effects on ecosystem services" Editors: Stolte, J., Tesfai, M., Øygarden, L., Kværnø, S., Keizer, J., Verheijen, F., Panagos, P., Ballabio, C., Hessel, R. EUR 27607 EN; doi:10.2788/488054 (print); doi:10.2788/828742 (online), Luxembourg
- (B1) Tsanis, I.K. and **Koutroulis A. G.** "Impact of Climate Change on Water Resources in Crete", *Book to Honour the Emeritus Professor Dimitrios Tolikas*, Aristotle University of Thessaloniki, 77-87, 2013.

#### Conference Proceedings

- (C61) Grillakis, M.G., **Koutroulis, A.G.**, "Hydrometeorological extremes in a warmer climate. A local scale assessment for the island of Crete", ECWS-3, 15 November 2018. MDPI AG, 10.3390/ECWS-3-05818
- (C60) **Koutroulis, A.G.**, Lamprini V. Papadimitriou, Manolis G. Grillakis, Tsanis, I.K., Richard. A. Betts, "Uncertainties in large-scale hydrological projections. A pan European assessment under high-end climate change", EGU2018-11676, Vienna, Austria, 8-13 April 2018 (poster)
- (C59) Grillakis M., **Koutroulis, A.G.**, Tsanis I.K., "Assessing the skill of two operational seasonal forecast systems on a small insular Mediterranean catchment", EGU2018-10048, Vienna, 8-13 April 2018 (poster)
- (C58) Grillakis M. G. & **Koutroulis A. G.** Unraveling the net effect of human induced climate change to the evolution of soil water resources. *TERRAenVISION* 2018. 29 January - 2 of February 2018, Valencia, Spain.

- (C57) Shannon S.R., Smith R.S., Wiltshire A.J., Payne A.J., Betts R.A., Caesar J., **Koutroulis A.G.**, Harrison S., “Glacier volume projections under high-end climate change scenarios”, Final HELIX-FP7 meeting, 3-5 October 2017, Exeter, UK
- (C56) Betts, R. A., C. Jinfeng, P. Ciais, **A. Koutroulis**, L. Papadimitriou, I. Tsanis, K. Wyser, “Impacts at 1.5°C and 2°C: uncertainties in regional climates and CO2 concentration”, 3<sup>rd</sup> European Climate Change Adaptation Conference (ECCA2017), 5-9 June 2017, Glasgow, UK (poster)
- (C55) **Koutroulis, A.G.**, Papadimitriou, L.V., Grillakis, M.G., Tsanis, I.K., “European freshwater vulnerability under high rates of global warming and plausible socio-economic narratives”, EGU2017-11960, Vienna, Austria, 23–28 April 2017 (poster)
- (C54) **Koutroulis, A.G.**, Grillakis, M.G., Tsanis, I.K., “Introducing seasonal hydro-meteorological forecasts in local water management. First reflections from the Messara site, Crete, Greece”, EGU2017-12072, Vienna, Austria, 23–28 April 2017 (poster)
- (C53) Iordanidou, V., **Koutroulis, A.G.**, Tsanis, I.K., “The Topology of Cyclones Related with Rain Events in Crete Island, Greece”, EGU2017-17701, Vienna, Austria, 23–28 April 2017 (poster)
- (C52) Papadimitriou L.V., **Koutroulis A.G.**, Grillakis M.G., Tsanis I.K., “Representation of droughts under different forcing datasets”, ISIMIP workshop 22-24 June, 2016, Potsdam Institute for Climate Impact Research (PIK) in Potsdam, Germany.
- (C51) Papadimitriou L.V., **Koutroulis A.G.**, Grillakis M.G., Tsanis I.K., “Sensitivity of a global land surface model to the meteorological forcing. Effects on the representation of droughts”, 2nd EWaS International Conf., June 1-4, Chania, Greece.
- (C50) Iordanidou V., **Koutroulis A.G.**, Tsanis I.K., “Is rainfall intensity in thundery weather related to lightning flashes?”, 2nd EWaS International Conf., June 1-4, Chania, Greece.
- (C49) Papadimitriou, L., Grillakis, M.G., **Koutroulis, A.G.**, Tsanis, I.K., “Sensitivity of hydrologic simulations to bias corrected driving parameters”, EGU2016-12021, Vienna, Austria, 17-22 April 2016 (poster)
- (C48) Grillakis, M.G., **Koutroulis, A.G.**, Tsanis, I.K., “A new method of adjusting spatial and temporal biases for selected climate variables”, EGU2016-11928, Vienna, Austria, 17-22 April 2016 (poster)
- (C47) **Koutroulis, A.G.**, Grillakis, M.G., Tsanis, I.K., “Storms from the past in a warmer climate. Results from high-res non-hydrostatic modeling over Crete”, EGU2016-11785, Vienna, Austria, 17-22 April 2016 (poster)
- (C46) Tsanis I. K., L. Alfieri, **A. Koutroulis**, M. Grillakis, L. Papadimitriou, L. Feyen, M. Vousdoukas, E. Voukouvalas), M. Rozsai, A. Kitous, P. Ciais, X. Wang, K. Wyser, R. A. Betts, “The impact of high-end climate change scenarios over Europe - Key Risks of Climate Change”, International Scientific Conference – Our Common Future Under Climate Change (CFCC2015), 7-10 July 2015, Paris, France (poster)
- (C45) **Koutroulis A.G.**, Grillakis M.G., Tsanis I.K. Studying the climate change impact at 2 degree warming on Water Resources for the island of Crete: A cross-sectoral approach. Multi-sectoral analysis of risks to climate change (hot spots) at 2 °C warming. International Scientific Conference – Our Common Future Under Climate Change, 1-10 July 2015, Paris, France.
- (C44) Tsanis I. K., L. Alfieri, **A. Koutroulis**, M. Grillakis, L. Papadimitriou, L. Feyen, M. Vousdoukas, E. Voukouvalas), M. Rozsai, A. Kitous, P. Ciais, X. Wang, K. Wyser, R. A. Betts. .The impact of high-end climate change scenarios over Europe - Key Risks of Climate Change. International Scientific Conference – Our Common Future Under Climate Change, 1-10 July 2015, Paris, France.
- (C43) Tsanis I.K., Grillakis M.G., **Koutroulis A.G.**, “Mapping the vulnerability of European summer tourism at a 2oC globally warmer climate”, European Climate Change Adaptation Conference, 12-14 May 2015, Copenhagen, Denmark.
- (C42) Tsanis I.K., Papadimitriou L., Grillakis M.G., **Koutroulis A.G.**, “The effect of bias adjustment in modeling global terrestrial water cycle and extremes”, European Climate Change Adaptation Conference, 12-14 May 2015, Copenhagen, Denmark.
- (C41) Tsanis I.K., Grillakis M., Varouchakis E., **Koutroulis A.**, Seiradakis K., “Assessing regression kriging for its ability to represent precipitation fields over complex terrain using different gauging network densities”, EGU2015, Vienna, Austria, 12-17 April 2015.

- (C40) Grillakis M., **Koutroulis A.**, Tsanis I.K., Jacob D., “Projections of European summer tourism demand at a +2 degrees warmer climate”, EGU2015-9448, Vienna, Austria, 12-17 April 2015.
- (C39) Iordanidou V., **Koutroulis A.**, Tsanis I.K., “Investigating correlation of lightning activity and precipitation in an Eastern Mediterranean island”, EGU2015-9833, Vienna, Austria, 12-17 April 2015.
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- (P10) Tsanis, I.K., **A.G. Koutroulis**, Jacob, D. Moseley, C. & Remedio A. “Assessment of additional regional feedbacks and their regional impacts in the Mediterranean (Crete case study)”, ENV.2008.1.1.4.1: New components in Earth System modeling for better climate projections, deliverable D8.7b, October 2013.
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- (P08) Tsanis, I.K., A.G. Koutroulis, M.G. Grillakis. “Evaluation of present-day estimates of solar radiation over Crete”. ECLISE FP7, FP7-ENV-2010.1.1.4-1, Deliverable 6.14.
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## MEMBERSHIP

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- Mediterranean Experts on Climate and environmental Change ([MedECC](#))
- [SDG ASSESSMENT CORE GROUP](#) of Sustainable Water Future Programme
- [ISI-MIP](#). The Inter-Sectoral Impact Model Intercomparison Project.
- [International Association of Hydrological Sciences](#).
- [Climate Knowledge Hub](#).
- [EURO-CORDEX](#) (European Climate Change Research in Europe).
- [European Drought Center](#) (EDC).
- Greek Committee for Water Resources Management.
- Member of the Technical Chamber of Greece (TCG).

## Ad hoc REVIEWER AND EXPERT EVALUATOR

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- 2018 External Expert H2020 - MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS -2018
- 2017 External Expert COST Open Call OC-2017-1
- 2017 Expert evaluation of four (4) research proposals on environmental research as commissioned by the National Science and Technology of the Ministry of Education and Science Center of the Republic of Kazakhstan.
- 2017 Expert reviewer IPCC Special Report on 1.5°C Global Warming (SR15).
- 2014 Evaluation of Chapters 3-Freshwater resources and 23-Europe of the Intergovernmental Panel most recent report on Climate Change (IPCC).
- 2014 Expert evaluation of ten (10) research proposals on environmental research as commissioned by the National Science and Technology of the Ministry of Education and Science Center of the Republic of Kazakhstan.
- 2011 Expert assessment for chapters 1,3,4 and 5 of the Intergovernmental Panel Special Report on Climate Change (IPCC) entitled "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX) and the related Summary for Policy Makers.

Ad hoc reviewer for the journals:

- *Nature Communications*
- *Hydrology and Earth System Sciences*
- *Nature Scientific Reports*
- *Journal of Hydrology*
- *Journal of Hydrometeorology*
- *Journal of Geophysical Research*
- *Journal of Applied Meteorology and Climatology*
- *Science of the Total Environment*
- *Natural Hazards and Earth System Sciences*
- *Water*
- *Journal of Hydroinformatics*
- *Ecohydrology & Hydrobiology*
- *Advances in Meteorology*
- *Hydrology*