

UNIVERSITATEA DIN BUCUREȘTI
FACULTATEA DE GEOGRAFIE
Școala Doctorală „Simion Mehedinți”

Conducător științific: prof. univ. dr. Georgeta BANDOC

TEMATICA ȘI BIBLIOGRAFIA PENTRU ADMITEREA LA
STUDII UNIVERSITARE DE DOCTORAT
Domeniul: GEOGRAFIE

Tematică generală:

1. Sursele de energie regenerabile. Identificare, evaluarea potențialului energetic și distribuția acestuia în sistemele geografice regionale.
2. Modelarea sistemelor geografice dinamice cu privire specială asupra interacțiunilor ocean - atmosferă.
3. Abordări interdisciplinare în modelarea sistemelor geografice

Bibliografie:

Andrew, K., Wenyan, L., Zhe, S., 2010. *Dynamic control of wind turbines*. Renewable Energy, vol. 35, pp. 456–463

Bandoc G., Degeratu, M., 2004. *Stratul limită atmosferic deasupra mării*. Studii și Cercetări de Oceanografie Costieră – Revista Științelor Litorale, Vol.1, pp.145-183, Ed. Univ. din București, București

Bandoc G., Degeratu, M., 2007. *Instalații și echipamente pentru utilizarea energiei mecanice nepoluante. Utilizarea energiei vântului*. Editura Matrix Rom, București

Bandoc G., Prăvălie, R., 2015, *Climatic water balance dynamics over the last five decades in Romania's most arid region, Dobrogea*, Journal of geographical Sciences, Vol. 25, Issue 11, pages 1307-1327, ISSN 1009-637X, eISSN 1861-9568, Publisher: SCIENCE PRESS

Bandoc G., Pravalie R., Patrice C., Dragomir E., Tomescu M., 2018. *Response of phenological events to climate warming in the southern and southeastern regions of Romania*. Stochastic Environmental Research and risk Assessment, 31(8), pp. 1923-1939

Bandoc G., Pravalie, R., Patriche, C., Degeratu, M., 2018. *Spatial assessment of wind power potential at global scale. A geographical approach*, Journal of Cleaner Production, Volume: 200, Pages: 1065-1086, Q1 Web of Sciences, DOI: 10.1016/j.jclepro.2018.07.288

Bandoc, G., Piticar, A., Patriche, C., Rosca, B., Dragomir, E., 2022, *Climate Warming-Induced Changes in Plant Phenology in the Most Important Agricultural Region of Romania*, Sustainability, Vol. 14, issue 5, DOI: 10.3390/su14052776, WOS:000769140500001,

Byrne, J., Zhou, A., Shen, B., Hughes, K., 2007. *Evaluating the potential of small-scale renewable energy options to meet rural livelihoods needs: A GIS- and lifecycle cost-based assessment of Western China's options*. Energy Policy, Vol. 35, pp. 4391–4401

Cal., R.B., Lebrón, J., Castillo, L. Kang, H. S., Meneveau, C., 2010. *Experimental study of the horizontally averaged flow structure in a model wind-turbine array boundary layer*. J. Renewable Sustainable Energy, Vol. 2, 013106

Degeratu, M., Bandoc G., 2007. *Instalații și echipamente pentru utilizarea energiei mecanice nepoluante. Utilizarea energiei valurilor*. Editura Matrix Rom, București

Doukab, H., Mannsbort, W., Patlizianas, K. D., Psarras, J., Rogwitz, M., Schlomann, B., 2006. *A methodology for validating the renewable energy data in Eu*, Renewable Energy, pp. 1982-1998

- Duffie, J.A., Beckman, W.A., 2006. *Solar engineering of thermal processes*, 3rd ed., Ed. John Wiley & Sons, US
- Fereidoon P., 2012. *Energy, Sustainability and the Environment: Technology, Incentives, Behavior*, Sioshansi Menlo Energy Economics, Linacre House, Jordan Hill, Oxford
- Garratt, J. R., 1992. *The atmospheric Boundary Layer*. Cambridge University Press, Cambridge
- Goovaerts, P., 1997. *Geostatistics for Natural Resources Evaluation*. Oxford University Press, New York, 483 pp
- Kaklauskas, A., Rute, J., Daniunas, A., Pruskus, V., Bivainis, J., Gudauskas, R., Plakys, V., 2012. *Passive house model for quantitative and qualitative analyses and its intelligent systems*, Energy and Buildings, 50, 7-18
- Kraus, E. B., and J. A. Businger, 1994. *Atmosphere-Ocean Interaction*. Oxford University Press, 362 pp.
- Makin V. K. & Kudryavtsev, V. N., 1999. *Coupled sea surface-atmosphere model. Part 1. Wind over waves coupling*. *J. Geophys. Res.*, 104(C4), 7613--7623.
- Prăvălie R., Bandoc G., Patriche C., Tomescu M., 2017. *Spatial analysis of air mean temperature changes during 1961-2009 in the most important agricultural region of Romania*. Stochastic Environmental Research and risk Assessment, vol.31, 8, Pages 19923-1939, 2017
- Prăvălie R., Patriche C.V., Bandoc G., 2019. *Spatial assessment of solar energy potential at global scale. A geographical approach*, Volume 209, 1, Pages 692-721, Journal of Cleaner Production
- Pravalie R., Bandoc G., Patriche C., Sternberg Troy., 2019. *Recent changes in global drylands: Evidences from two major aridity databases*, CATENA, 178:209-231
- Pravalie R., Patriche C., Săvulescu I., Sirodoev I., Bandoc G., Sfica L., 2020. *Spatial assessment of land sensitivity to degradation across Romania. A quantitative approach based on the modified MEDALUS method*, CATENA, DOI 10.1016/j.catena.2019.104407, WOS:000514020400005
- Pravalie R., Sirodoev I., Patriche C., Rosca B., Piticar A., Bandoc G., Sfaca L., Tiscovschi A., Dumitrascu M., Chifiriuc C., Manoiu V., Iordache S., 2020. *The impact of climate change on agricultural productivity in Romania. A country scale assessment base don the relationship between climatic water balance and maize yields in recent decades*, Agricultural Systems, DOI10.1016/j.agsy.2019.102767, WOS:000524975100006
- Prăvălie R., Nita I.A., Patriche C., Niculiță M., Birsan M.V., Roșca B., Bandoc G., 2021. *Global changes in soil organic carbon and implications for land degradation neutrality and climate stability*. Environmental Research 201, <https://doi.org/10.1016/j.envres.2021.111580> WOS:000703964200003
- Prăvălie R., Patriche C., Borrelli P., Panagos P., Roșca B., Dumitrașcu M., Nita I.A., Săvulescu I., Birsan M.V., Bandoc G., 2021. *Arable lands under the pressure of multiple land degradation processes. A global perspective*. Environmental Research, 194, <https://doi.org/10.1016/j.envres.2020.110697>, WOS:000632602000002
- Phillips, O. M., 1977. *The Dynamics of the Upper Ocean*, 2nd ed. Cambridge Univ. Press, Cambridge, U.K., 336 pp
- Robert H. Stewart, 2008. *Introduction to Physical Oceanography*, Department of Oceanography Texas A & M University
- Storch, H. von, Zwiers, F., 1999. *Statistical Analysis in Climate Research*. Cambridge University Press, 484 p.
- Stull, B. R., 1988. *An Introduction to Boundary Layer Meteorology*. Kluwer Academic Publishers. 666 p
- Toba, Y., N. Iida, H. Kawamura, N. Ebuchi and I. S. F. Jones., 1990. *Wave dependence of sea-surface stress*. *J. Phy. Oceanogr.*, 20, 705-721
- Wilks, S. D., 2011. *Statistical Methods in the Atmospheric Sciences*. Int Geophys Series, 688 p