

## Literatura

- Abalos Choque, M., Paredes Araya, D. (2014): Una modificación al método varimax para delimitar Regiones Urbanas Funcionales usando la vecindad espacial. *Investigaciones Regionales* 30, 103–126.
- Abler, R., Adams, J. S., Gould, P. (1972): *Spatial organization: the geographer's view of the world*. Prentice Hall International, London.
- Agnew, J. A. (2013): Arguing with regions. *Regional Studies* 47 (1), 6–17.
- Ahn, Y. Y., Bagrow, J. P., Lehmann, S. (2010): Link communities reveal multiscale complexity in networks. *Nature* 466 (7307), 761–764.
- Ahuja, R. K., Magnanti, T. L., Orlin, J. B. (1993): *Network flows: theory, algorithms, and applications*. Prentice Hall, Upper Saddle River.
- Alampijev, P. M. (1959): *Ekonomičeskoje rajonirovanije SSSR. Kniga 1-ja*, Gozplanizdat, Moskva.
- Alampijev, P. M. (1963): *Ekonomičeskoje rajonirovanije SSSR. Kniga 2-ja*. Izdatelstvo ekonomičeskoj literatury, Moskva.
- Alampiyev, P. M. (1961): The objective basis of economic regionalization and its long-range prospects. *Soviet Geography* 2 (8), 64–74.
- Aldstadt, J. (2010): Spatial clustering. In: Fischer, M. M., Getis, A. eds.: *Handbook of Applied Spatial Analysis*. Springer, Heidelberg, 279–300.
- Allen, J., Massey, D., Cochrane, A. (1998): *Rethinking the region*. Routledge, London.
- Alonso, M. P., Beamonte, A., Gargallo, P., Salvador, M. (2015): Local labour markets delineation: an approach based on evolutionary algorithms and classification methods. *Journal of Applied Statistics* 42 (5), 1043–1063.
- Alonso, M. P., Beamonte, A., Gargallo, P., Salvador, M. (2015): Local labour markets delineation: an approach based on evolutionary algorithms and classification methods. *Journal of Applied Statistics* 42 (5), 1043–1063.
- Alonso, W. (1978): A theory of movements. In: Hansen, N. M. ed.: *Human Settlement Systems*. Ballinger, Cambridge (Mass.), 197–211.
- Alp, O., Erkut, E., Drezner, Z. (2003): An efficient genetic algorithm for the  $p$ -median problem. *Annals of Operations research* 122 (1), 21–42.

- Alvanides, S., Openshaw, S. (1999): Zone design for planning and policy analysis. In: Stillwell, J., Geertman, S., Openshaw, S. eds.: *Geographical Information and Planning*. Springer, Berlin-Heidelberg, 299-315.
- Amin, A. (2004): Regions unbound: towards a new politics of place. *Geografiska Annaler B* 86 (1), 33-44.
- Andersen, A. K. (2002): Are commuting areas relevant for the delimitation of administrative regions in Denmark? *Regional Studies* 36 (8), 833-844.
- Andrzejewska, R., Stryjakiewicz, T. (1986): Modele gravitacji i potencjału w procedurze delimitacji funkcjonalnego regionu miejskiego Poznania. In: Czyż, T. ed.: *Metody badania struktury regionalnej*. Seria Geografia 32. Wydawnictwo naukowe UAM, Poznań, 7-20.
- Anselin, L. (1995): Local indicators of spatial association - LISA. *Geographical Analysis* 27 (2), 93-115
- Anučin, V. A. (1960): *Teoretičeskije problemy v geografii*. Geografiz, Moskva.
- Anučin, V. A. ed. (1980): N. N. Baranskij: *Izbrannyje trudy*. Naučnyje principy geografii. Mysl', Moskva.
- Armand, D. L. (1952): Principy fiziko-geografičeskogo rajonirovanija. *Izvestija AN SSSR, serija geografičeskaja* 1, 68-82.
- Armand, D. L. (1964): Logičnosť geografičeskich klassifikacij i schem rajonirovanija. In: Richter, G. D. ed.: *Razvitie i preobrazovanie geografičeskoy sredy*. Nauka, Moskva, 33-53.
- Auerbach, F. (1913): Das Gesetz der Bevölkerungskonzentration. *Petermanns Geographische Mitteilungen* 59, 74-76.
- Auerhan, J. (1928): Regionální jednotky pro zpracování a publikaci statistických dat. *Československý statistický věstník* 9 (7-8), 361-370.
- Augustson, J. G., Minker, J. (1970): An analysis of some graph theoretical cluster techniques. *Journal of the Association for Computing Machinery* 17 (4), 571-588.
- Bailey, R. G. (1983): Delineation of ecosystem regions. *Environmental Management* 7 (4), 365-373.
- Bailey, R. G. (1984): Testing an ecosystem regionalization. *Journal of Environmental Management* 19 (3), 239-248.
- Bailey, R. G. (1987): Suggested hierarchy of criteria for multi-scale ecosystem mapping. *Landscape and Urban Planning* 14, 313-319.

- Bailey, R. G. (2004): Identifying ecoregion boundaries. *Environmental Management* 34 (1), S14–S26.
- Bailey, R. G., Zoltai, S. C., Wiken, E. B. (1985): Ecological regionalization in Canada and the United States. *Geoforum* 16 (3), 265–275.
- Baker, F. B., Hubert, L. J. (1975): Measuring the power of hierarchical cluster analysis. *Journal of the American Statistical Association* 70 (349), 31–38.
- Baker, R. G. (2008): A “Caesarian,” “Augustan,” or “Justinian” worldview of theoretical and quantitative geography? *Geographical Analysis* 40 (3), 213–221.
- Balatka, B., Czudek, T., Demek, J. (1975): Typologické třídění reliéfu ČSR. *Sborník Československé společnosti zeměpisné* 80 (3), 177–183.
- Balatka, B., Czudek, T., Demek, J., Sládek, J. (1973): Regionální členění reliéfu ČSR. *Sborník Československé společnosti zeměpisné* 78 (2), 81–96.
- Ball, G. H., Hall, D. J. (1965): ISODATA, a novel method of data analysis and pattern classification. Stanford Research Institute, Menlo Park CA (NTIS No. AD 699616).
- Ball, G. H., Hall, D. J. (1967): A clustering technique for summarizing multivariate data. *Behavioral Science* 12 (2), 153–155.
- Ball, R. M. (1980): The use and definition of travel-to-work areas in Great Britain: some problems. *Regional Studies* 14 (2), 125–139.
- Banfield, C. F., Bassill, L. C. (1977): Algorithm AS 113: a transfer for non-hierarchical classification. *Journal of the Royal Statistical Society C* 26 (2), 206–210.
- Baranskij, N. N. (1960): *Ekonomičeskaja geografija. Ekonomičeskaja kartografija*. Geografiz, Moskva.
- Barker, D. (1976): Hierarchic and non-hierarchic grouping methods: an empirical comparison of two techniques. *Geografiska Annaler B* 58 (1), 42–58.
- Barnes, T. J. (2001): Lives lived and lives told: biographies of geography’s quantitative revolution. *Environment and Planning D* 19 (4), 409–429.
- Barnes, T. J. (2004): Placing ideas: genius loci, heterotopia and geography’s quantitative revolution. *Progress in Human Geography* 28 (5), 565–595.
- Barnes, T. J. (2009): “Not only... but also”: quantitative and critical geography. *The Professional Geographer* 61 (3), 292–300.
- Barnes, T. J. (2010): Taking the pulse of the dead: history and philosophy of geography, 2008–2009. *Progress in Human Geography* 34 (5), 668–677.

- Barras, R., Broadbent, T. A., Cordey-Hayes, M., Massey, D. B., Robinson, K., Willisf, J. (1971): An operational urban development model of Cheshire. *Environment and Planning A* 3 (2), 115–234.
- Bašovský, O., Lauko, V. (1990): Úvod do regionálnej geografie. SPN, Bratislava.
- Batagelj, V., Bren, M. (1995): Comparing resemblance measures. *Journal of Classification* 12 (1), 73–90.
- Batty, M., Foot, D., Alonso, L., Bray, G., Breheny, M., Constable, D., Dubmore, K., Ellender, R., Shepard, J., Williams, J. (1973): Spatial system design and fast calibration of activity interaction-allocation models. *Regional Studies* 7 (4), 351–366.
- Baumann, J. H., Fischer, M. M., Schubert, U. (1983): A multiregional labour supply model for Austria: the effects of different regionalisations in multiregional labour market modelling. *Papers in Regional Science* 52 (1), 53–83.
- Berry, B. J. L. (1958): A note concerning methods of classification. *Annals of the Association of American Geographers* 48 (3), 300–303.
- Berry, B. J. L. (1961): A method for deriving multi-factor uniform regions. *Przegląd geograficzny* 33 (2), 263–282.
- Berry, B. J. L. (1964): Approaches to regional analysis: a synthesis. *Annals of the Association of American Geographers* 54 (1), 2–11.
- Berry, B. J. L. (1967): The mathematics of economic regionalization. In: Macka, M. ed.: *Economic regionalization*. Academia, Praha, 77–106.
- Berry, B. J. L. (1968a): A synthesis of formal and functional regions using general field theory of spatial behavior. In: Berry, B. J. L., Marble, D. F. eds.: *Spatial analysis: a reader in statistical geography*. Prentice Hall, Englewood Cliffs, 419–428.
- Berry, B. J. L. (1968b): Numerical regionalization of political-economic space. *Geographia Polonica* 15, 27–35.
- Berry, B. J. L. (1971): Problems of data organization and analytical methods in geography. *Journal of the American Statistical Association* 66 (335), 510–523.
- Berry, B. J. L. (1973): *Growth centres in the American urban system*. Ballinger, Cambridge, Mass.
- Berry, B. J. L. (1976): The counterurbanization process: urban America since 1970. In: Berry, B. J. L. ed.: *Urbanization and counterurbanization*. *Urban Affairs Annual Review* 11, Beverly Hills, CA, Sage, 17–30.

- Berry, B. J. L., Wróbel, A. (1968): Economic regionalization and numerical methods. *Geographica Polonica* 15, PWN, Warszawa.
- Berry, B. J., Garrison, W. L. (1958): The functional bases of the central place hierarchy. *Economic Geography* 34 (2), 145–154.
- Berry, B. J., Griffith, D. A., Tiefelsdorf, M. R. (2008): From spatial analysis to geospatial science. *Geographical Analysis* 40 (3), 229–238.
- Bezák, A. (1988): Regionálne typy sociálno-priestorovej štruktúry Bratislavy. *Geografický časopis* 40 (4), 311–328.
- Bezák, A. (1993): Problémy a metódy regionálnej taxonomie. *Geographia Slovaca* 3. GÚ SAV, Bratislava.
- Bezák, A. (1996): Regional taxonomy: a review of problems and methods. *Acta Facultatis Rerum Naturalium Universitatis Comenianae, Geographica* 38, 43–58.
- Bezák, A. (1997): Priestorová organizácia spoločnosti a územno-správne členenie štátu. *Acta Universitatis Matthiae Belii, Geografické Štúdie* 3, 6–13.
- Bezák, A. (2000): Funkčné mestské regióny na Slovensku. *Geographia Slovaca* 15. Geografický ústav SAV, Bratislava.
- Bezdek, J. C. (1974a): Cluster validity with fuzzy sets. *Journal of Cybernetics* 3 (3), 58–73.
- Bezdek, J. C. (1974b): Numerical taxonomy with fuzzy sets. *Journal of Mathematical Biology* 1 (1), 57–71.
- Bezdek, J. C., Ehrlich, R., Full, W. (1984): FCM: The fuzzy c-means clustering algorithm. *Computers & Geosciences* 10 (2), 191–203.
- Bezdek, J. C., Hathaway R. J. (1990): Dual object-relation clustering models. *International Journal of General System* 16 (4), 385–396.
- Bezdek, J. C., Hathaway, R. J. (1987): Clustering with relational c-means partitions from pairwise distance data. *Mathematical Modelling* 9 (6), 435–439.
- Bianchi, G., Bruni, R., Reale, A., Sforzi, F. (2016): A min-cut approach to functional regionalization, with a case study of the Italian local labour market areas. *Optimization Letters* 10 (5), 955–973.
- Bičík, I. (2010): Optimistický skeptik Martin Hampl sedmdesátníkem. *Informace ČGS* 29 (2), 76–77.
- Bičík, I. (2015): Martin Hampl slaví životní jubileum. *Informace ČGS* 34 (2), 100–103.

- Bína, J. (1984): Doc. RNDr. Miroslav Macka zemřel. Sborník Československé geografické společnosti 89 (4), 324–325.
- Blažek, M. (1948): Hospodářské plánování a zeměpisci. Sborník Československé společnosti zeměpisné 53 (1–2), 33–34.
- Blažek, M. (1954): K otázkám rajonizace v Československu. Politická ekonomie 2 (1), 38–54.
- Blažek, M. (1958): O vztahu ekonomického a administrativního členění ČSR. In: Hruška, E. ed.: Hospodářskogeografické členění Československé republiky. Sborník I. konference hospodářské geografie v Liblicích 1956. Praha, 52–56.
- Blažek, M. (1962): Vymezení městských aglomerací v ČSSR. Sborník Československé společnosti zeměpisné 67 (3), 258–264.
- Blažek, M. (1967): Economic regionalization in Czechoslovakia. In: Macka, M. ed.: Economic regionalization. Academia, Praha, 265–271.
- Blažek, M. (1968a): Hospodářská geografie v ČSAV v letech 1954–1962. Zprávy Geografického ústavu ČSAV 1968 (2), 13–16.
- Blažek, M. (1968b): On the problem of administrative regionalization. Sborník Československé společnosti zeměpisné 73 (3), 278–282.
- Blažek, M. (1969a): K otázce administrativní rajonizace v ČSR. Zprávy Geografického ústavu ČSAV 6 (8), 17–25.
- Blažek, M. (1969b): Otázky dalšího postupu při regionalizaci. In: Macka, M. ed.: Studia Geographica 8. Geografický ústav ČSAV, Brno, 9–31.
- Blažek, M. ed. (1977): Ekonomickogeografická regionalizace. Studia Geographica 53. Geografický ústav ČSAV, Brno.
- Blondel, V. D., Guillaume, J. L., Lambiotte, R., Lefebvre, E. (2008): Fast unfolding of communities in large networks. Journal of Statistical Mechanics: Theory and Experiment, 2008 (10), P10008.
- Bock, H.-H. (2008): Origins and extensions of the  $k$ -means algorithm in cluster analysis. Journal Electronique d'Histoire des Probabilités et de la Statistique / Electronic Journal for History of Probability and Statistics 4 (2).
- Boháč, A. (1929): Z ankety o návrhu na vytvoření nových oblastních jednotek statistických na podkladě geografickém. Československý statistický věstník 10 (5–6), 323–332.
- Bondy, J. A., Murty, U. S. R. (1976): Graph theory with applications. Macmillan, London.
- Boyce, D. E., Farhi, A., Weischedel, R. (1973): Optimal network problem: a branch-and-bound algorithm. Environment and Planning A 5 (4), 519–533.

- Boykov, Y., Kolmogorov, V. (2004): An experimental comparison of min-cut/max-flow algorithms for energy minimization in vision. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 26 (9), 1124–1137.
- Brams, S. J. (1966): Transaction flows in the international system. *American Political Science Review* 60 (4), 880–898.
- Brandes, U., Gaertler, M., Wagner, D. (2003): Experiments on graph clustering algorithms. In: Di Battista, G., Zwick, U. eds.: *Proceedings of the 11<sup>th</sup> European Symposium on Algorithms (ESA '03)*. Springer, Berlin–Heidelberg, 568–579.
- Brimberg, J., Hansen, P., Mladonovic, N., Salhi, S. (2008): A survey of solution methods for the continuous location allocation problem. *International Journal of Operations Research* 5 (1), 1–12.
- Broadbent, T. A. (1970): Notes on the design of operational models. *Environment and Planning A* 2 (4), 469–476.
- Brown, L. A., Holmes, J. (1971): The delimitation of functional regions, nodal regions, and hierarchies by functional distance approaches. *Journal of Regional Science* 11 (1), 57–72.
- Brown, L. A., Horton, F. E. (1970): Functional distance: an operational approach. *Geographical Analysis* 2 (1), 76–83.
- Brown, L. A., Odland, J., Golledge, R. G. (1970): Migration, functional distance, and the urban hierarchy. *Economic Geography* 46 (3), 472–485.
- Brown, P. J. B., Hincks, S. (2008): A framework for housing market area delineation: principles and application. *Urban Studies* 45 (11), 2225–2247.
- Brown, P. J. B., Masser, I. (1978): An empirical investigation of the use of Broadbent's rule in spatial system design. In: Masser, I., Brown, P. J. B. eds.: *Spatial representation and spatial interaction*. *Studies in Applied Regional Science* 10. Martinus Nijhoff, Leiden–Boston, 51–69.
- Brown, P. J. B., Pitfield, D. E. (1990): The Intramax derivation of commodity market structures from freight flow data. *Transportation Planning and Technology* 15 (1), 59–81.
- Brunhes, J. (1920): *Géographie humaine de la France*. Tome 1. Plon-Nourrit, Paris.
- Brusco, M. J. (2006): A repetitive branch-and-bound procedure for minimum within-cluster sums of squares partitioning. *Psychometrika* 71 (2), 347–363.
- Brusco, M. J., Cradit, J. D. (2001): A variable-selection heuristic for *K*-means clustering. *Psychometrika* 66 (2), 249–270.

- Brusco, M. J., Köhn, H.-F. (2008): Optimal partitioning of a data set based on the  $p$ -median model. *Psychometrika* 73 (1), 89–105.
- Brusco, M. J., Köhn, H.-F. (2009): Exemplar-based clustering via simulated annealing. *Psychometrika* 74 (3), 457–475.
- Brush, J. E. (1953): The hierarchy of central places in Wisconsin. *Geographical Review* 53 (3), 380–402.
- Bunge, W. (1962): *Theoretical geography*. Lund Studies in Geography Series C: General and Mathematical Geography. C. W. K. Gleerup, Lund.
- Bunge, W. (1966): Gerrymandering, geography and grouping. *Geographical Review* 56 (2), 256–263.
- Bunge, W., Grigg, D. (1966): Locations are not unique. *Annals of the Association of American Geographers* 56 (2), 375–377.
- Byfuglien, J., Nordgård, A. (1973): Region-building – a comparison of methods. *Norsk Geografisk Tidsskrift – Norwegian Journal of Geography* 27 (2), 127–151.
- Byfuglien, J., Nordgård, A. (1974). Types or regions? *Norsk Geografisk Tidsskrift – Norwegian Journal of Geography* 28 (3), 157–166.
- Caglioni, M., Fusco, G. (2014): Formal ontologies and uncertainty in geographical knowledge. *TeMA. Journal of Land Use, Mobility and Environment, INPUT* 2014, 187–198.
- Caliński, T., Harabasz, J. (1974): A dendrite method for cluster analysis. *Communications in Statistics* 3 (1), 1–27.
- Carey, H. C. (1858): *Principles of social science* (vol. 1). Lippincott, Philadelphia.
- Carling, K., Håkansson, J. (2013): A compelling argument for the gravity  $p$ -median model. *European Journal of Operational Research* 226 (3), 658–660.
- Carol, H. (1946): *Die Wirtschaftslandschaft und ihre kartographische Darstellung*. *Geographica Helvetica* 1 (3), 246–279.
- Carrizosa, E., Mladenović, N., Todosijević, R. (2013): Variable neighborhood search for minimum sum-of-squares clustering on networks. *European Journal of Operational Research* 230 (2), 356–363.
- Casado-Díaz, J. M. (2000): Local labour market areas in Spain: a case study. *Regional Studies* 34 (9), 843–856.
- Casado-Díaz, J. M., Coombes, M. (2011): The delineation of 21<sup>st</sup> century local labour markets areas: a critical review and a research agenda. *Boletín de la Asociación de Geógrafos Españoles* 57, 7–32.



- Casado-Izquierdo, J. M., Propín-Frejomil, E. (2008): Praxis internacional en el estudio de mercados laborales locales. *Investigaciones geográficas* 65, 118–137.
- Casetti, E., Semple, R. K. (1968): A method for the stepwise separation of spatial trends. Michigan Inter-University Community of Mathematical Geographers. Discussion Paper 11.
- Čermák, Z., Jedlička, J., Kudláček, L. (1984): Vývoj mikroregionální struktury z hlediska pohybu za prací v letech 1961–1970. *Sborník prací* 8. Geografický ústav ČSAV, 53–61.
- Cervero, R. (1995): Planned communities, self-containment and commuting: a cross-national perspective. *Urban Studies* 32 (7), 1135–1161.
- Chakraborty, A., Beamonte, M. A., Gelfand, A. E., Alonso, M. P., Gargallo, P., Salvador, M. (2013): Spatial interaction models with individual-level data for explaining labor flows and developing local labor markets. *Computational Statistics & Data Analysis* 58, 292–307.
- Champion, T. (2001): Urbanization, suburbanization, counterurbanization and reurbanization. In: Paddison, R. ed.: *Handbook of urban studies*. Sage, London, 143–161.
- Chen, Y., Song, Z. J. (2012): Spatial analysis for functional region of suburban–rural area using micro genetic algorithm with variable population size. *Expert Systems with Applications* 39 (7), 6469–6475.
- Chisholm, M. (1964): Problems in the classification and use of farming-type regions. *Transactions and Papers (Institute of British Geographers)* (35), 91–103.
- Chojnicki, Z., Czyż, T. (1973): *Metody taksonomii numerycznej w regionalizacji geograficznej*. Państwowe Wydawnictwo Naukowe, Warszawa.
- Chojnicki, Z., Czyż, T. (1976): Some problems in the application of factor analysis in geography. *Geographical Analysis* 8 (4), 416–427.
- Chorley, R. J., Haggett, P. (1965): Trend-surface mapping in geographical research. *Transactions of the Institute of British Geographers* 37, 47–67.
- Chorley, R. J., Haggett, P. eds. (1967): *Models in geography*. Methuen, London.
- Christaller, W. (1933): *Die zentralen Orte in Suddeutschland*. Gustav Fischer, Jena.
- Chuman, T., Romportl, D. (2010): Multivariate classification analysis of cultural landscapes: an example from the Czech Republic. *Landscape and Urban Planning* 98 (3–4), 200–209.

- Church, R. L. (1990): The regionally constrained  $p$ -median problem. *Geographical Analysis* 22 (1), 22–32.
- Church, R. L. (2003): COBRA: a new formulation of the classic  $p$ -median location problem. *Annals of Operations Research* 122 (1–4), 103–120.
- Church, R. L., Meadows, M. E. (1977): Results of a new approach to solving the  $p$ -median problem with maximum distance constraints. *Geographical Analysis* 9 (4), 364–378.
- Church, R. L., ReVelle, C. S. (1976): Theoretical and computational links between the  $p$ -median, location set-covering, and the maximal covering location problem. *Geographical Analysis* 8 (4), 406–415.
- Church, R., ReVelle, C. R. (1974): The maximal covering location problem. *Papers in Regional Science* 32 (1), 101–118.
- Clauset, A., Newman, M. E., Moore, C. (2004): Finding community structure in very large networks. *Physical Review E* 70 (6), 066111.
- Claval, P. (1998): *Introduction to regional geography*. Blackwell, Oxford.
- Claval, P. (2007): Regional geography: past and present (a review of ideas, approaches and goals). *Geographia Polonica* 80 (1), 25–42.
- Clayton, C. (1974): Communication and spatial structure. *Tijdschrift voor economische en sociale geografie* 65 (3), 221–227.
- Cliff, A. D., Haggett, P. (1970): On the efficiency of alternative aggregations in region building problems. *Environment and Planning A* 2 (3), 285–294.
- Cliff, A. D., Haggett, P., Ord, J. K., Bassett, K., Davies, R. (1975): *Elements of spatial structure. A quantitative approach*. Cambridge University Press, Cambridge.
- Cliff, A. D., Kelly, F. P. (1977): Regional taxonomy using trend-surface coefficients and invariants. *Environment and Planning A* 9 (8), 945–955.
- Cliff, A. D., Ord, J. K. (1973): *Spatial Autocorrelation*. Pion, London.
- Cliff, A. D., Ord, K. (1971): Evaluating the percentage points of a spatial autocorrelation coefficient. *Geographical Analysis* 3 (1), 51–62.
- Cohen, J. (1960): A coefficient of agreement for nominal scales. *Educational and Psychological Measurement* 20 (1), 37–46.
- Cole, A. J., Wishart, D. (1970): An improved algorithm for the Jardine-Sibson method of generating overlapping clusters. *The Computer Journal* 13 (2), 156–163.

- Comte, A. (1854): *Système de politique positive, ou traité de sociologie, instituant la religion de l'humanité*. Tome 4. Cariliau-Gocury, Paris.
- Converse, P. D. (1949): New laws of retail gravitation. *Journal of Marketing* 14 (3), 379–384.
- Coombes, M. (2010): Defining labour market areas by analysing commuting data: innovative methods in the 2007 review of Travel-to-Work Areas. In: Stillwell, J. et al. eds.: *Technologies for migration and commuting analysis: spatial interaction data applications*. IGI Global, Hershey, 227–241.
- Coombes, M. G. (2000): Defining locality boundaries with synthetic data. *Environment and Planning A*, 32 (8): 1499–1518.
- Coombes, M. G., Bond, S. (2008): *Travel-to-work areas: the 2007 review*. Office for National Statistics, London.
- Coombes, M. G., Dixon, J. S., Goddard, J. B., Openshaw, S., Taylor, P. J. (1982): Functional regions for the population census of Great Britain. In: Herbert, D. T., Johnston, R. J. eds.: *Geography and the urban environment. Progress in Research and Applications* 5. John Wiley and Sons Ltd., Chichester, 63–112.
- Coombes, M. G., Dixon, J. S., Goddard, J. B., Openshaw, S., Taylor, P. J. (1978): Towards a more rational consideration of census areal units: daily urban systems in Britain. *Environment and Planning A* 10 (10), 1179–1185.
- Coombes, M. G., Dixon, J. S., Goddard, J. B., Openshaw, S., Taylor, P. J. (1979): Daily urban systems in Britain: from theory to practice. *Environment and Planning A* 11 (5), 565–574.
- Coombes, M. G., Green, A. E., Openshaw, S. (1986): An efficient algorithm to generate official statistical reporting areas: the case of the 1984 travel-to-work areas revision in Britain. *The Journal of the Operational Research Society* 37 (10), 943–953.
- Coombes, M. G., Openshaw, S. (1982): The use and definition of travel-to-work areas in Great Britain: some comments. *Regional Studies* 16 (2), 141–149.
- Coombes, M., Casado-Díaz, J. M. (2005): The evolution of local labour market areas in contrasting region. In: 45th Congress of the European Regional Science Association. ERSA, Amsterdam.
- Cooper, L. (1963): Location-allocation problems. *Operations Research* 11 (3), 331–343.
- Cooper, L. (1967): Solutions of generalized locational equilibrium models. *Journal of Regional Science* 7 (1), 1–18.
- Cooper, L. (1968): An extension of the generalized Weber problem. *Journal of Regional Science* 8 (2), 181–197.

- Coppock, J. T. (1964): Crop, livestock, and enterprise combinations in England and Wales. *Economic Geography* 40 (1), 65–81.
- Cormack, R. M. (1971): A review of classification. *Journal of the Royal Statistical Society A* 134 (3), 321–367.
- Cörvers, F., Hensen, M., Bongaerts, D. (2009): Delimitation and coherence of functional and administrative regions. *Regional Studies* 43 (1), 19–31.
- Couclelis, H. (2003): The certainty of uncertainty: GIS and the limits of geographic knowledge. *Transactions in GIS* 7 (2), 165–175.
- Cova, T. J., Church, R. L. (2000): Contiguity constraints for single-region site search problems. *Geographical Analysis* 32 (4), 306–329.
- ČSÚ (2004): Dojíždka za prací a do škol v Jihomoravském kraji (na základě výsledků SLDB 2001). ČSÚ, Krajská reprezentace Brno, Brno.
- ČSÚ (2014): Regionalizace dojíždky do zaměstnání podle výsledků sčítání lidu, domů a bytů 2011. ČSÚ, Praha.
- Culek, M., Buček, A., Grulich, V., Hartl, P., Hrabica, A., Kocián, J., Kyjovský, Š., Lacina, J. (2005): Biogeografické členění České republiky. II. díl. Agentura ochrany přírody a krajiny ČR, Praha.
- Culek, M., Grulich, V., Povolný, D. (1996): Biogeografické členění ČR. Enigma, Praha.
- Cunningham, K. M., Ogilvie, J. C. (1972): Evaluation of hierarchical grouping techniques: a preliminary study. *The Computer Journal* 15 (3), 209–213.
- Current, J. R., Schilling, D. A. (1987): Elimination of source A and B errors in *p*-median location problems. *Geographical Analysis* 19 (2), 95–110.
- Czudek, T. ed. (1972): Geomorfologické členění ČSR. *Studia Geographica* 23. Geografický ústav ČSAV, Brno.
- Czudek, T. ed., Balatka, B., Demek, J., Ivan, A., Kousal, J., Loučková, J., Sládek, J., Stehlík, O., Štelcl, O. (1973): Typologické členění reliéfu ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Czyż, T. (1968): The application of multifactor analysis in economic regionalization. *Geographia Polonica* 15, 115–123.
- Daněk, P. (2013): Geografické myšlení: úvod do teoretických přístupů. Masarykova univerzita, Brno.
- Daniel, J. (2013): Reconstruction of the discussion on the final delimitation of regions in the year 1949: a contribution to the development of the regional administrative division of

- the Czech lands. *Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Geographica* 44 (2), 111–124.
- Daniel, J. (2016): Kraje a plánování: Československá krajská reforma z roku 1949 v kontextu produkce odborného vědění v období třetí republiky (1945–1948). *Geografický časopis* 68 (2), 95–114.
- Daniel, J. (2017): Proměny organizace prostoru českých zemí: reflexe historického vývoje v období 1945 až 1949. Ms. disertační práce. Geografický ústav MU, Brno.
- Daultrey, S. (1976): Principal components analysis. CATMOG 8. GeoAbstracts, Norwich.
- Davidson, I. (2002): Understanding *K*-means non-hierarchical clustering. SUNY Albany Technical Report 2, 2–14.
- Davies, D. L., Bouldin, D. W. (1979): A cluster separation measure. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 1 (2), 224–227.
- De Bruin, S., Stein, A. (1998): Soil-landscape modelling using fuzzy *c*-means clustering of attribute data derived from a digital elevation model (DEM). *Geoderma* 83 (1–2), 17–33.
- De Jong, T., Van der Vaart, N. (2013): Manual Flowmap 7.4.2. Faculty of Geographical Sciences, Utrecht University, Utrecht.
- Dědina, V. (1921a): Přirozené krajiny jako základ členění zemědělské statistiky. *Československý statistický věstník* 2, 272–278.
- Dědina, V. (1921b): Rozčlenění státního území československého. *Sborník Československé společnosti zeměpisné* 27 (1–2), 29–31.
- Dědina, V. (1927): Přirozené kraje a oblasti v Československu. *Sborník Československé společnosti zeměpisné* 33 (1–2), 21–25.
- Dědina, V. (1928): Přirozené kraje v Československu. *Vesmír* 7 (3–5), 31–33.
- Dědina, V. (1929): Regionální členění Československa. *Sborník Československé společnosti zeměpisné* 35 (3–4), 89–92.
- Demangeon, A. (1905): *La Picardie et les régions voisines, Artois – Cambrésis – Beauvaisis*. Librairie Armand Colin, Paris.
- Demek, J. (1968): Complex physico-geographical research in Czechoslovakia: its principles, problems and practical utilization. *Sborník Československé společnosti zeměpisné* 73 (3), 229–241.
- Demek, J. (1972): Dvacet let geografie v Československé akademii věd a její spolupráce s geografii sovětskou. *Sborník Československé společnosti zeměpisné* 77 (3), 213–218.

- Demek, J. (1978): Teorie a metodologie současné geografie. *Studia Geographica* 65. Geografický ústav ČSAV, Brno.
- Demek, J. ed., Balatka, B., Czudek, T., Hrádek, M., Ivan, A., Kousal, J., Loučková, J., Panoš, V., Sládek, J., Stehlík, O., Štelcl, O. (1977): Podrobné regionální členění reliéfu ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Demek, J., Kirchner, K. (2014): Zemřel RNDr. Evžen Quitt, CSc. *Informace ČGS* 33 (1), 46–48.
- Demek, J., Raušer, J., Quitt, E. (1977): Fyzickogeografické regiony České socialistické republiky. *Sborník Československé společnosti zeměpisné* 82 (2), 89–102.
- Demek, J., Raušer, J., Quitt, E. eds., Balatka, B., Czudek, T., Kousal, J., Loučková, J., Sládek, J. (1975): Fyzickogeografické regiony České socialistické republiky. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Deming, W. E., Stephan, F. F. (1940): On a least squares adjustment of a sampled frequency table when the expected marginal totals are known. *The Annals of Mathematical Statistics* 11 (4), 427–444.
- Demšar, U., Reades, J., Manley, E., Batty, J. M. (2014): Edge-based communities for identification of functional regions in a taxi flow network. Department of Geodesy and Geoinformation, Vienna University of Technology.
- Dickinson, R. E. (1930): The regional functions and zones of influence of Leeds and Bradford. *Geography* 15 (7), 548–557.
- Dickinson, R. E. (1932): The distribution and functions of the smaller urban settlements of East Anglia. *Geography* 17 (1), 19–31.
- Dickinson, R. E. (1934): The metropolitan regions of the United States. *Geographical Review* 24 (2), 278–291.
- Dickinson, R. E. (1939): Landscape and society. *Scottish Geographical Magazine* 55 (1), 1–15.
- Dikshit, R. D. (2008): *Geographical thought: a contextual history of ideas*. PHI Learning Private Ltd., New Delhi.
- Ding, C. H., He, X., Zha, H., Gu, M., Simon, H. D. (2001): A min-max cut algorithm for graph partitioning and data clustering. In: *Proceedings IEEE International Conference on Data Mining*, 107–114.
- DiStefano, C., Zhu, M., Mindrila, D. (2009): Understanding and using factor scores: considerations for the applied researcher. *Practical Assessment, Research & Evaluation* 14 (20), 1–11.

- Divíšek, J., Chytrý, M., Grulich, V., Poláková, L. (2014): Landscape classification of the Czech Republic based on the distribution of natural habitats. *Preslia* 86, 209–231.
- Domański, R. (1964): Procedura typologiczna w badaniach ekonomiczno-geograficznych. *Przegląd Geograficzny* 36 (4), 627–660.
- Domański, R. (1982): Teoretyczne podstawy geografii ekonomicznej. Państwowe Wydawnictwo Naukowe, Warszawa.
- Domanský, K. (1948): Územní členění státu a jeho význam správní, politický a hospodářský. *Plánované hospodářství* 1, 205–206.
- Dorling, D., Pritchard, J. (2010): The geography of poverty, inequality and wealth in the UK and abroad: because enough is never enough. *Applied Spatial Analysis and Policy* 3 (2–3), 81–106.
- Doxiadis, C. A. (1968): A city for human development. *Ekistics* 25 (151), 374–394.
- Drezner, T., Drezner, Z. (2007): The gravity  $p$ -median model. *European Journal of Operational Research* 179 (3), 1239–1251.
- Drobne, S., Bogataj, M. (2012a): A method to define the number of functional regions: An application to NUTS 2 and NUTS 3 levels in Slovenia. *Geodetski vestnik* 56 (1), 105–150.
- Drobne, S., Bogataj, M. (2012b): Evaluating functional regions. *Croatian Operational Research Review* 3 (1), 14–27.
- Drobne, S., Konjar, M., Lisec, A. (2010): Razmejitev funkcionalnih regij Slovenije na podlagi analize trga dela. *Geodetski vestnik* 54 (3), 481–500.
- Drobne, S., Lakner, M. (2016): Intramax and other objective functions: the case of Slovenia. *Moravian Geographical Reports* 24 (2), 12–25.
- Du, Z., Yang, O., Chenghu, Z. (2008): Understanding of and thinking over geographical regionalization methodology. *Acta Geographica Sinica* 63 (6), 563–573.
- Dubes, R., Jain, A. K. (1979): Validity studies in clustering methodologies. *Pattern Recognition* 11 (4), 235–254.
- Dubin, R. (2009): Spatial weights. In: Fotheringham, A. S., Rogerson, P. A. eds.: *The Sage Handbook of Spatial Analysis*. Sage, London, 125–157.
- Duda, R. O., Hart, P. E. (1973): *Pattern classification and scene analysis*. John Wiley and Sons, New York.
- Duda, R. O., Hart, P. E., Stork, D. G. (2000): *Pattern classification*. 2<sup>nd</sup> edition. John Wiley and Sons, New York.

- Dunn, J. C. (1974a): A fuzzy relative of the ISODATA process and its use in detecting compact well-separated clusters. *Journal of Cybernetics* 3 (3), 32–57.
- Dunn, J. C. (1974b): Well-separated clusters and optimal fuzzy partitions. *Journal of Cybernetics* 4 (1), 95–104.
- Duque, J. C., Anselin, L., Rey, S. J. (2012): The max- $p$ -regions problem. *Journal of Regional Science* 52 (3), 397–419.
- Duque, J. C., Church, R. L., Middleton, R. S. (2011): The  $p$ -regions problem. *Geographical Analysis* 43 (1), 104–126.
- Duque, J. C., Ramos, R., Suriñach, J. (2007): Supervised regionalization methods: a survey. *International Regional Science Review* 30 (3), 195–220.
- Duran, B. S., Odell, P. L. (1974): Cluster analysis: a survey. *Lecture notes in economics and mathematical systems* 100. Springer, Berlin.
- Dziewoński, K. (1957): Niektóre problemy badania regionów gospodarczych w Polsce. *Przegląd geograficzny* 29 (5), 719–739.
- Dziewoński, K. (1967): Concepts and terms in the field of economic regionalization. In: Macka, M. ed.: *Economic regionalization*. Academia, Praha, 25–36.
- Dziewoński, K. ed. (1961): *Problems of economic region*. Geographical Studies 27. PWN, Warszawa.
- Dziewoński, K., Wróbel, A. eds. (1964): *Methods of economic regionalization*. Geographia Polonica 4. PWN, Warszawa.
- Edwards, A. W., Cavalli-Sforza, L. L. (1965): A method for cluster analysis. *Biometrics* 21 (2), 362–375.
- Ekonomický ústav ČSAV (1959): *Hospodářské oblasti, jejich vymezení a geografické zpracování*. Sborník II. konference hospodářské geografie v Liblicích 1957. Materiály EÚ ČSAV, Praha.
- Entrikin J. N. (2011): Region and regionalism. In: Agnew, J. A., Livingstone, D. N. eds.: *The Sage handbook of geographical knowledge*. Sage, London, 344–356.
- Erisoglu, M., Calis, N., Sakallioğlu, S. (2011): A new algorithm for initial cluster centers in  $k$ -means algorithm. *Pattern Recognition Letters* 32 (14), 1701–1705.
- Erlebach, M., Klapka, P., Halás, M., Tonev, P. (2014): Inner structure of functional region: theoretical aspects. In: Klímová, V., Žitek, V. eds.: *17<sup>th</sup> International Colloquium on Regional Science*. Conference Proceedings. Masarykova univerzita, Brno, 722–727.



- Erlebach, M., Tomáš, M., Tonev, P. (2016): A functional interaction approach to the definition of meso regions: The case of the Czech Republic. *Moravian Geographical Reports* 24 (2), 37–46.
- Ertl, H., Fischer, M. M., Wohlschlägl, H. (1980): A methodological approach for large regional taxonomic problems: spatial patterns of population development in Austria. *Papers in Regional Science* 44 (1), 119–135.
- EUROSTAT (1992): Study on employment zones. Document E/LOC/20. Eurostat, Luxembourg.
- Everitt, B. S. (1979): Unresolved problems in cluster analysis. *Biometrics* 35 (1), 169–181.
- Everitt, B. S., Landau, S., Leese, M., Stahl, D. (2011): *Cluster analysis*. 5<sup>th</sup> edition. John Wiley and Sons Ltd., Chichester.
- Farmer, C. J. Q., Fotheringham, A. S. (2011): Network-based functional regions. *Environment and Planning A* 43 (11), 2723–2741.
- Fawcett, C. B. (1917): Natural divisions of England. *Geographical Journal* 49 (2), 124–135.
- Fawcett, C. B. (1919): *Provinces of England: a study of some geographical aspects of devolution*. Williams and Norgate, London.
- Fedina, A. E. (1973): *Fiziko-geografičeskoje rajonirovanije*. Izdatělstvo MGU, Moskva.
- Feng, Z. (2009): Fuzziness of travel-to-work areas. *Regional Studies* 43 (5), 707–720.
- Fienberg, S. E. (1970): An iterative procedure for estimation in contingency tables. *The Annals of Mathematical Statistics* 41 (3), 907–917.
- Findlay, A., Slater, P. B. (1981): Functional regionalization of spatial interaction data: a comment. *Environment and Planning A* 13 (5), 645–646.
- Fischer, J. L., Lomský, L., Štěpánek, J. (1928): *Anketa o regionalismu*. Knihovna Okresního osvětového sboru ve Kdyni XIV. Okresní osvětový výbor ve Kdyni, Kdyně.
- Fischer, M. M. (1978): Theoretische und methodische Probleme der regionalen Taxonomie. *Bremer Beiträge zur Geographie und Raumplanung* 1, 19–50.
- Fischer, M. M. (1980): Regional taxonomy: a comparison of some hierarchic and non-hierarchic strategies. *Regional Science and Urban Economics* 10 (4), 503–537.
- Fischer, M. M. (1982): *Eine Methodologie der Regionaltaxonomie Probleme und Verfahren der Klassifikation und Regionalisierung in der Geographie und Regionalforschung*. Bremer Beiträge zur Geographie und Raumplanung 3. Universität Bremen Presse- und Informationsamt, Bremen.

- Fischer, M. M. (1984): *Tassonomia regionale: Alcuni riflessioni sullo stato dell'arte*. In: Clemente, F. ed.: *Pianificazione del territorio e sistema informative*. Franco Angeli Libri, Milano, 365–400.
- Fischer, M. M. (1987): *Some fundamental problems in homogeneous and functional regional taxonomy*. *Bremer Beiträge zur Geographie und Raumplanung* 11, 264–282.
- Fischer, M. M. (1999): *Spatial analysis*. Discussion Papers of the Institute for Economic Geography and GIScience 66/99. WU Vienna University of Economics and Business, Vienna.
- Fischer, M. M., Essletzbichler, J., Gassler, H., Trichtl, G. (1993): *Telephone communication patterns in Austria: a comparison of the IPFP-based graph-theoretic and the Intramax approaches*. *Geographical Analysis* 25 (3), 224–233.
- Fischer, M. M., Getis, A. eds. (2010): *Handbook of Applied Spatial Analysis*. Springer, Heidelberg.
- Fischer, M. M., Slater, P. B. (1984): *Structuring relation matrices: hierarchical migration patterns in the Federal Republic of Germany*. *Bremer Beiträge zur Geographie und Raumplanung* 5, 174–201.
- Fisher, W. D. (1958): *On grouping for maximum homogeneity*. *Journal of the American Statistical Association* 53 (284), 789–798.
- Flórez-Revuelta, F., Casado-Díaz, J. M., Martínez-Bernabeu, L. (2008): *An evolutionary approach to the delineation of functional areas based on travel-to-work flows*. *International Journal of Automation and Computing* 5 (1), 10–21.
- Ford, L. R. jr., Fulkerson, D. R. (1956): *Maximal flow through a network*. *Canadian Journal of Mathematics* 8 (3), 399–404.
- Fortunato, S. (2010): *Community detection in graphs*. *Physics Reports* 486 (3–5), 75–174.
- Fotheringham, A. S, Brunson, C., Charlton, M. (2002): *Geographically weighted regression: the analysis of spatially varying relationships*. John Wiley and Sons, Chichester.
- Fotheringham, A. S. (1997): *Trends in quantitative methods I: stressing the local*. *Progress in Human Geography* 21 (1), 88–96.
- Fotheringham, A. S. (1998): *Trends in quantitative methods II: stressing the computational*. *Progress in Human Geography* 22 (2), 283–292.
- Fotheringham, A. S. (1999): *Trends in quantitative methods III: stressing the visual*. *Progress in Human Geography* 23 (4), 597–606.

- Fischer, M. M. (1984): Tassonomia regionale: Alcuni riflessioni sullo stato dell'arte. In: Clemente, F. ed.: Pianificazione del territorio e sistema informative. Franco Angeli Libri, Milano, 365–400.
- Fischer, M. M. (1987): Some fundamental problems in homogeneous and functional regional taxonomy. *Bremer Beiträge zur Geographie und Raumplanung* 11, 264–282.
- Fischer, M. M. (1999): Spatial analysis. Discussion Papers of the Institute for Economic Geography and GIScience 66/99. WU Vienna University of Economics and Business, Vienna.
- Fischer, M. M., Essletzbichler, J., Gassler, H., Trichtl, G. (1993): Telephone communication patterns in Austria: a comparison of the IPFP-based graph-theoretic and the Intramax approaches. *Geographical Analysis* 25 (3), 224–233.
- Fischer, M. M., Getis, A. eds. (2010): *Handbook of Applied Spatial Analysis*. Springer, Heidelberg.
- Fischer, M. M., Slater, P. B. (1984): Structuring relation matrices: hierarchical migration patterns in the Federal Republic of Germany. *Bremer Beiträge zur Geographie und Raumplanung* 5, 174–201.
- Fisher, W. D. (1958): On grouping for maximum homogeneity. *Journal of the American Statistical Association* 53 (284), 789–798.
- Flórez-Revuelta, F., Casado-Díaz, J. M., Martínez-Bernabeu, L. (2008): An evolutionary approach to the delineation of functional areas based on travel-to-work flows. *International Journal of Automation and Computing* 5 (1), 10–21.
- Ford, L. R. jr., Fulkerson, D. R. (1956): Maximal flow through a network. *Canadian Journal of Mathematics* 8 (3), 399–404.
- Fortunato, S. (2010): Community detection in graphs. *Physics Reports* 486 (3–5), 75–174.
- Fotheringham, A. S, Brunsdon, C., Charlton, M. (2002): *Geographically weighted regression: the analysis of spatially varying relationships*. John Wiley and Sons, Chichester.
- Fotheringham, A. S. (1997): Trends in quantitative methods I: stressing the local. *Progress in Human Geography* 21 (1), 88–96.
- Fotheringham, A. S. (1998): Trends in quantitative methods II: stressing the computational. *Progress in Human Geography* 22 (2), 283–292.
- Fotheringham, A. S. (1999): Trends in quantitative methods III: stressing the visual. *Progress in Human Geography* 23 (4), 597–606.

- Fotheringham, A. S. (2009): "The problem of spatial autocorrelation" and local spatial statistics. *Geographical Analysis* 41 (4), 398–403.
- Fotheringham, A. S., Brunsdon, C., Charlton, M. (2000): *Quantitative geography: perspectives on spatial data analysis*. Sage, London.
- Fotheringham, A. S., Densham, P. J., Curtis, A. (1995): The zone definition problem in location-allocation modeling. *Geographical Analysis* 27 (1), 60–77.
- Fotheringham, A. S., O'Kelly, M. E. (1989): *Spatial interaction models: formulations and applications*. Kluwer, London.
- Fotheringham, A. S., Rogerson, P. A. eds. (2009): *The Sage Handbook of Spatial Analysis*. Sage, London.
- Fotheringham, A. S., Wong, D. W. (1991): The modifiable areal unit problem in multivariate statistical analysis. *Environment and Planning A* 23 (7), 1025–1044.
- Fotheringham, A. S., Yang, W., Kang, W. (2017): Multiscale geographically weighted regression (MGWR). *Annals of the American Association of Geographers* 107 (6), 1247–1265.
- Fowlkes, E. B., Mallows, C. L. (1983): A method for comparing two hierarchical clusterings. *Journal of the American Statistical Association* 78 (383), 553–569.
- Fraley, C., Raftery, A. E. (1998): How many clusters? Which clustering method? Answers via model-based cluster analysis. *The Computer Journal* 41 (8), 578–588.
- Franklin, S. E., Wulder, M. A. (2002): Remote sensing methods in medium spatial resolution satellite data land cover classification of large areas. *Progress in Physical Geography* 26 (2), 173–205.
- Frantál, B., Klapka, P., Siwek, T. (2012): Lidské chování v prostoru a čase: teoreticko-metodologická východiska. *Sociologický časopis / Czech Sociological Review* 48 (5), 833–857.
- Friedman, H. P., Rubin, J. (1967): On some invariant criteria for grouping data. *Journal of the American Statistical Association* 62 (320), 1159–1178.
- Friedmann, J. R. P. (1956). The concept of a planning region. *Land Economics* 32 (1), 1–13.
- Fukumoto, J., Okamoto, Y., Ujiie, A. (2013): A modularity approach to the delineation of functional regions from spatial interaction data. In: *Proceedings of the 13<sup>th</sup> World Conference on Transportation Research in Rio de Janeiro, Brazil* ([www.wctrs-society.com/wp/wp-content/uploads/abstracts/rio/selected/3377.pdf](http://www.wctrs-society.com/wp/wp-content/uploads/abstracts/rio/selected/3377.pdf)).

- Fusco G., Cagliioni M. (2011): Hierarchical clustering through spatial interaction data. The case of commuting flows in south-eastern France. In: Murgante B. et al. eds.: Computational Science and Its Applications – ICCSA 2011. ICCSA 2011. Lecture Notes in Computer Science vol. 6782. Springer, Berlin–Heidelberg.
- Fusco, G., Cagliioni, M., Emsellem, K., Merad, M., Moreno, D., Voiron-Canicio, C. (2017): Questions of uncertainty in geography. *Environment and Planning A* 49 (10), 2261–2280.
- Gale, S. (1976): A resolution of the regionalization problem and its implications for political geography and social justice. *Geografiska Annaler B* 58 (1), 1–16.
- Galpin, C. J. (1915): The social anatomy of an agricultural community. Research Bulletin No. 34. Agricultural Experiment Station of the University of Wisconsin, Madison.
- Gan, G., Ma, C., Wu, J. (2007): Data clustering: theory, algorithms, and applications. ASA-SIAM Series on statistics and applied probability. SIAM, Philadelphia – ASA, Alexandria, VA.
- Garrison, W. L. (1960): Connectivity of the interstate highway system. *Papers in Regional Science* 6 (1), 121–137.
- Gath, I., Geva, A. B. (1989): Unsupervised optimal fuzzy clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 11 (7), 773–780.
- Gatrell, A. C. (1983): Distance and space: a geographical perspective. Clarendon Press, Oxford.
- Gehlke, C. E., Biehl, K. (1934): Certain effects of grouping upon the size of the correlation coefficient in census tract material. *Journal of the American Statistical Association* 29 (185), 169–170.
- Gerrard, R. A., Church, R. L. (1995): A general construct for the zonally constrained  $p$ -median problem. *Environment and Planning B* 22 (2), 213–236.
- Getis, A. (2008): A history of the concept of spatial autocorrelation: A geographer's perspective. *Geographical Analysis* 40 (3), 297–309.
- Getis, A. (2009): Spatial weights matrices. *Geographical Analysis* 41 (4), 404–410.
- Getis, A. (2010): Spatial autocorrelation. In: Fischer, M. M., Getis, A. eds.: *Handbook of Applied Spatial Analysis*. Springer, Heidelberg, 255–278.
- Getis, A., Aldstadt, J. (2004): Constructing the spatial weights matrix using a local statistic. *Geographical Analysis* 36 (2), 90–104.

- Getis, A., Ord, J. K. (1992): The analysis of spatial association by use of distance statistics. *Geographical Analysis* 24 (3), 189–206.
- Geyer, H. S., Kontuly, T. M. eds. (1996): *Differential urbanization: integrating spatial models*. Arnold, London.
- Giddens, A. (1984): *The constitution of society. Outline of the theory of structuration*. Cambridge, Polity.
- Gilbert, A. (1988): The new regional geography in English and French-speaking countries. *Progress in Human Geography* 12 (2), 208–228.
- Gilbert, E. W. (1960): The idea of the region. *Geography* 45 (3), 157–175.
- Girvan, M., Newman, M. E. (2002): Community structure in social and biological networks. *Proceedings of the National Academy of Sciences* 99 (12), 7821–7826.
- Goddard, J. B. (1970): Functional regions within the city centre: a study by factor analysis of taxi flows in central London. *Transactions of the Institute of British Geographers* 49, 161–182.
- Goddard, J., Kirby, A. (1976): An introduction to factor analysis. *CATMOG* 7. GeoAbstracts, Norwich.
- Goldberg, A. V., Tarjan, R. E. (1988): A new approach to the maximum-flow problem. *Journal of the ACM* 35 (4), 921–940.
- Golledge, R. G., Church, R., Dozier, J., Estes, J. E., Michaelsen, J., Simonett, D. S., Smith, R., Smith, T., Strahler, A. H., Tobler, W. R. (1982): Commentary on “The highest form of the geographer’s art”. *Annals of the Association of American Geographers* 72 (4), 557–559.
- Golledge, R. G., Hubert, L. J., Richardson, G. D. (1981): The comparison of related data sets: examples from multidimensional scaling and cluster analysis. *Papers in Regional Science* 48 (1), 57–66.
- Golledge, R. G., Stimpson, R. J. (1997): *Spatial behavior: a geographical perspective*. The Guildford Press, New York – London.
- Gomory, R. E., Hu, T. C. (1961): Multi-terminal network flows. *Journal of the Society for Industrial and Applied Mathematics* 9 (4), 551–570.
- Goodall, B. (1987): *The Penguin dictionary of human geography*. Penguin, Harmondsworth.
- Goodall, D. W. (1953): Objective methods for the classification of vegetation. I. The use of positive interspecific correlation. *Australian Journal of Botany* 1 (1), 39–63.

- Goodchild, M. F. (1979): The aggregation problem in location-allocation. *Geographical Analysis* 11 (3), 240–255.
- Goodchild, M. F. (1986): *Spatial Autocorrelation*. CATMOG 47. GeoBooks, Norwich.
- Goodchild, M. F. (2008): Statistical perspectives on geographic information science. *Geographical Analysis* 40 (3), 310–325.
- Goodman, J. F. B. (1970): The definition and analysis of local labour markets: some empirical problems. *British Journal of Industrial Relations* 8 (2), 179–196.
- Goodman, L. A. (1963): Statistical methods for the preliminary analysis of transaction flows. *Econometrica* 31 (1–2), 197–208.
- Goodman, L. A., Kruskal, W. H. (1954): Measures of association for cross classifications. *Journal of the American Statistical Association* 49 (268), 732–764.
- Gordon, A. D. (1987): A review of hierarchical classification. *Journal of the Royal Statistical Society A* 150 (2), 119–137.
- Gordon, A. D. (1996): A survey of constrained classification. *Computational Statistics & Data Analysis* 21, 17–29.
- Götz, A. (1969): Geografická rajonizace zemědělské výroby. In: Macka, M. ed.: *Studia Geographica* 8. Geografický ústav ČSAV, Brno, 32–39.
- Götz, A. (1972): Typy zemědělské krajiny ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Gould, P. R. (1967): On the geographical interpretation of eigenvalues. *Transactions of the Institute of British Geographers* 42, 53–86.
- Gower, J. C. (1967): A comparison of some methods of cluster analysis. *Biometrics* 23 (4), 623–637.
- Gower, J. C. (1971): A general coefficient of similarity and some of its properties. *Biometrics* 27 (4), 857–871.
- Graham, M., Shelton, T. (2013): Geography and the future of big data, big data and the future of geography. *Dialogues in Human Geography* 3 (3), 255–261.
- Greer-Wooten, B., Gilmour, G. M. (1972): Distance and directional bias in migration patterns in depreciating metropolitan areas. *Geographical Analysis* 4 (1), 92–97.
- Gregory, C. L. (1949): Advanced techniques in the delineation of regions. *Rural Sociology* 15 (1), 59–63.

- Gregory, D., Johnston, R., Pratt, G., Watts, M., Whatmore, S. eds. (2009): The dictionary of human geography. 5<sup>th</sup> edition. John Wiley and Sons, Chichester.
- Gregory, S. (2010): Finding overlapping communities in networks by label propagation. *New Journal of Physics* 12 (10), 103018.
- Gregory, S. (2011): Fuzzy overlapping communities in networks. *Journal of Statistical Mechanics: Theory and Experiment* 2011 (02), P02017.
- Grice, J. W. (2001): Computing and evaluating factor scores. *Psychological Methods* 6 (4), 430–450.
- Grigg, D. (1965): The logic of regional systems. *Annals of the Association of American Geographers* 55 (3), 465–491.
- Grigg, D. (1967): Regions, models, and classes. In: Chorley, R. J., Haggett, P. eds.: *Models in Geography*. Methuen, London, 461–509.
- Grubestic, T. H. (2006): On the application of fuzzy clustering for crime hot spot detection. *Journal of Quantitative Criminology* 22 (1), 77–105.
- Grubestic, T. H., Wei, R., Murray, A. T. (2014): Spatial clustering overview and comparison: accuracy, sensitivity, and computational expense. *Annals of the Association of American Geographers* 104 (6), 1134–1155.
- Gruchociak, H. (2012): Delimitacja lokalnych rynków pracy v Polsce. *Przegląd statystyczny*. Numer specjalny 2, 277–297.
- Hägerstrand, T. (1970): What about people in regional science? *Papers of the Regional Science Association* 24 (1), 6–21.
- Haggett, P. (1965): *Locational analysis in human geography*. Edward Arnold, London.
- Haggett, P. (1975): *Geography: a modern synthesis*. 2<sup>nd</sup> edition. Harper and Row Publishers, New York.
- Haggett, P. (1981): The edges of space. In: Bennett, R. J. ed.: *European Progress in Spatial Analysis*. Pion, London, 51–70.
- Haggett, P. (1990): *The geographer's art*. Blackwell, Oxford.
- Haggett, P. (2001): *Geography: a global synthesis*. Prentice Hall, Harlow.
- Haggett, P. (2008): The spirit of quantitative geography. *Geographical Analysis* 40 (3), 226–228.
- Hagood, M. J. (1943): Statistical methods for delineation of regions applied to data on agriculture and population. *Social Forces* 21 (3), 287–297.



- Haining, R. (2003): *Spatial data analysis: theory and practice*. Cambridge University Press, Cambridge.
- Haining, R. P. (2009): Spatial autocorrelation and the quantitative revolution. *Geographical Analysis* 41 (4), 364–374.
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E. (2010): *Multivariate data analysis*. 7<sup>th</sup> edition. Pearson.
- Hakimi, S. L. (1964): Optimum locations of switching centers and the absolute centers and medians of a graph. *Operations Research* 12 (3), 450–459.
- Hakimi, S. L. (1965): Optimum distribution of switching centers in a communication network and some related graph theoretic problems. *Operations Research* 13 (3), 462–475.
- Halás, M., Kladivo, P., Šimáček, P., Mintálová, T. (2010): Delimitation of micro-regions in the Czech Republic by nodal relations. *Moravian Geographical Reports* 18 (2), 16–22.
- Halás, M., Klapka, P. (2010): Regionalizace Česka z hlediska modelování prostorových interakcí. *Geografie* 115 (2), 144–160.
- Halás, M., Klapka, P. (2012): Contribution to regional division of Slovakia based on the application of the Reilly's model. *Hungarian geographical bulletin* 61 (3), 237–255.
- Halás, M., Klapka, P. (2017): Functionality versus gerrymandering and nationalism in administrative geography: lessons from Slovakia. *Regional Studies* 51 (10), 1568–1579.
- Halás, M., Klapka, P., Bednář, M., Tonev, P. (2015): An alternative definition and use for the constraint function for rule-based methods of functional regionalisation. *Environment and Planning A* 47 (5), 1175–1191.
- Halás, M., Klapka, P., Bleha, B., Bednář, M. (2014a): Funkčné regióny na Slovensku podľa denných tokov do zamestnania. *Geografický časopis* 66 (2), 89–114.
- Halás, M., Klapka, P., Erlebach, M. (2018a): Unveiling spatial uncertainty: a method to evaluate the fuzzy nature of functional regions. *Regional Studies*. DOI: 10.1080/00343404.2018.1537483.
- Halás, M., Klapka, P., Hurbánek, P., Bleha, B., Péntzes, J., Pálóczi, G. (2018b): A definition of relevant functional regions for international comparisons: the case of Central Europe. *Area*. 2018;00:1–11.
- Halás, M., Klapka, P., Kladivo, P. (2014b): Distance-decay functions for daily travel-to-work flows. *Journal of Transport Geography* 35, 107–119.
- Halás, M., Klapka, P., Tonev, P. (2014c): A contribution to human geographical regionalisation of the Czech Republic at the mezzo level. In: Klímová, V., Žítek, V. eds.:

- Halás, M., Klapka, P., Tonev, P. (2016): The use of migration data to define functional regions: the case of the Czech Republic. *Applied Geography* 76, 98–105.
- Halkidi, M., Batistakis, Y., Vazirgiannis, M. (2001): On clustering validation techniques. *Journal of Intelligent Information Systems* 17 (2), 107–145.
- Halkidi, M., Vazirgiannis, M. (2001): Clustering validity assessment: finding the optimal partitioning of a data set. *Proceedings of the 2001 IEEE International Conference on Data Mining (ICDM 2001)*, 187–194.
- Hall, O., Arnberg, W. (2002): A method for landscape regionalization based on fuzzy membership signatures. *Landscape and Urban Planning* 59 (4), 227–240.
- Hall, P., Hay, D. (1980): *Growth centres in the European urban system*. Heinemann Educational Books, London.
- Hall, R. B. (1935): The geographic region: a résumé. *Annals of the Association of American Geographers* 25 (3), 122–136.
- Hámpel, M. (1966): Příspěvek k teorii regionu. *Sborník Československé společnosti zeměpisné* 71 (2), 97–114.
- Hámpel, M. (1971): *Teorie komplexity a diferenciacie světa*. Univerzita Karlova, Praha.
- Hámpel, M. (1985): Zamyšlení nad dílem profesora Jaromíra Korčáka. In: Vystoupil, J. ed.: *Sborník prací 9, Geografický ústav ČSAV, Brno*, 5–11.
- Hámpel, M. (1988): *Teorie strukturální a vývojové organizace geografických systémů: principy a problémy*. *Studia Geographica* 93. Geografický ústav ČSAV, Brno.
- Hámpel, M. (1989): *Hierarchie reality a studium sociálněgeografických systémů*. *Rozpravy ČSAV, řada matematických a přírodních věd* 99 (1). Academia, Praha.
- Hámpel, M. (1990): Územně správní uspořádání České republiky (konceptní problémy a varianty řešení). *Sborník Československé geografické společnosti* 95 (4), 248–259.
- Hámpel, M. (1998): *Realita, společnost a geografická organizace: hledání integrálního řádu*. Přírodovědecká fakulta Univerzity Karlovy, Praha.
- Hámpel, M. (1999): Konceptní otázky sociogeografické regionalizace – desatero poznámek. In: Jeřábek, M., Peštová, J. eds.: *Regionalizace České republiky: formování regionů, jejich funkce, význam pro začleňování do evropského prostoru*. *Sborník referátů. UJEP, Ústí n. Labem*, 5–10.

- Hampl, M. (2004): Geograf a demograf Jaromír Korčák (1895–1989). In: Šmahel, F. ed.: Učenci očima kolegů a žáků. Academia, Praha, 18–22.
- Hampl, M. (2005): Geografická organizace společnosti v České republice: transformační procesy a jejich obecný kontext. DemoArt, Praha.
- Hampl, M. (2012): Hierarchické organizace v realitě: pojetí, poznávací a praktický smysl studia. Geografie 117 (3), 253–265.
- Hampl, M. (2015): 120 let od narození profesora Jaromíra Korčáka. Informace ČGS 34 (2), 95–97.
- Hampl, M. (2017): Řádovostně měřítkové uspořádání distribucí geografických jevů: příklad obyvatelstva. Informace ČGS 36 (1), 1–19.
- Hampl, M. (2018): Hierarchické formy uspořádání nerovnoměrností v realitě: hledání pravidelností a problémy explanace. Informace ČGS 37 (1), 1–23.
- Hampl, M. et al. (1996): Geografická organizace společnosti a transformační procesy v České republice. DemoArt, Praha.
- Hampl, M., Gardavský, V., Kühnl, K. (1987): Regionální struktura a vývoj systému osídlení ČSR. Univerzita Karlova, Praha.
- Hampl, M., Ježek, J., Kühnl, K. (1978): Sociálně geografická regionalizace ČSR. Acta demographica II. Československá demografická společnost při ČSAV – Výzkumný ústav sociálně ekonomických informací, Praha.
- Hampl, M., Krajíček, L., Kühnl, K., Matějka, V. (1970): Příspěvek k sociálněgeografické regionalizaci Českých zemí. In: Häufler, V. ed.: Sborník prací geografických kateder UK k 75. narozeninám prof. dr. Jaromíra Korčáka, DrSc. Univerzita Karlova, Praha, 25–46.
- Hampl, M., Kühnl, K. (1973): On some problems of the social geographical regionalization of the Czech socialist republic. Acta Geographica Universitatis Comenianae, Economico-geographica 12, 161–167.
- Hampl, M., Marada, M. (2015): Sociogeografická regionalizace Česka. Geografie 120 (3), 397–421.
- Hampl, M., Marada, M. (2016): Metropolizace a regionální vývoj v Česku v transformačním období. Geografie 121 (4), 566–590.
- Hampl, M., Müller, J. (1996): Komplexní organizace systému osídlení. In: Hampl, M. et al.: Geografická organizace společnosti a transformační procesy v České republice. DemoArt, Praha, 53–89.

- Han, Y., Goetz, S. J. (2017): Overlapping labour market areas based on link communities. *Papers in Regional Science*. DOI: 10.1111/pirs.12326.
- Hanig, R. (2003): *Spatial data analysis: theory and practice*. Cambridge University Press, Cambridge.
- Hansen, P., Jaumard, B. (1997): Cluster analysis and mathematical programming. *Mathematical Programming* 79 (1-3), 191-215.
- Hansen, P., Jaumard, B., Meyer, C., Simeone, B., Doring, V. (2003): Maximum split clustering under connectivity constraints. *Journal of Classification* 20 (2), 143-180.
- Hansen, P., Mladenović, N. (1997): Variable neighborhood search for the p-median. *Location Science* 5 (4), 207-226.
- Hansen, P., Mladenović, N. (2001): J-means: a new local search heuristic for minimum sum of squares clustering. *Pattern Recognition* 34 (2), 405-413.
- Hao, J. X., Orlin, J. B. (1994): A faster algorithm for finding the minimum cut in a directed graph. *Journal of Algorithms* 17 (3), 424-446.
- Harary, F. (1960): Some historical and intuitive aspects of graph theory. *SIAM Review* 2 (2), 123-131.
- Harris, C. D. (1964): Methods of research in economic regionalization. *Geographia Polonica* 4, 59-86.
- Hart, J. F. (1982): The highest form of the geographer's art. *Annals of the Association of American Geographers* 72 (1), 1-29.
- Hartigan, J. A. (1967): Representation of similarity matrices by trees. *Journal of the American Statistical Association* 62 (320), 1140-1158.
- Hartshorne, R. (1939): The nature of geography: a critical survey of current thought in the light of the past. *Annals of the Association of American Geographers* 29 (3; 4), 173-412; 413-658.
- Hartshorne, R. (1955): "Exceptionalism in geography" re-examined. *Annals of the Association of American Geographers* 45 (3), 205-244.
- Hartshorne, R. (1958): The concept of geography as a science of space, from Kant and Humboldt to Hettner. *Annals of the Association of American Geographers* 48 (2), 97-108.
- Hartshorne, R. (1959): *Perspective on the nature of geography*. AAG - Rand McNally & Company, Chicago.

- Hartuv, E., Shamir, R. (2000): A clustering algorithm based on graph connectivity. *Information Processing Letters* 76 (4–6), 175–181.
- Harvey, D. (1990): *The condition of postmodernity*. Blackwell, Malden, MA.
- Hathaway, R. J., Davenport, J. W., Bezdek, J. C. (1989): Relational duals of the *c*-means clustering algorithms. *Pattern Recognition* 22 (2), 205–212.
- Häufler, V. (1981): Profesor dr. M. Blažek pětadesátíkem. *Sborník Československé geografické společnosti* 86 (2), 123–127.
- Haynes, K. E., Fotheringham, A. S. (1984): *Gravity and spatial interaction models*. Sage, Beverly Hills.
- Hensen, M., Cörvers, F. (2003): The regionalization of labour markets by modelling commuting behaviour. Working Paper. Researchcentrum Onderwijs & Arbeidsmarkt.
- Herbertson, A. J. (1905): The major natural regions: an essay in systematic geography. *Geographical Journal* 25 (3), 300–310.
- Herbertson, A. J. (1913): Natural regions. *The Geographical Teacher* 7 (3), 158–163.
- Heřmanová, E. (1991): *Vybrané vícerozměrné statistické metody v geografii*. Univerzita Karlova – SPN, Praha.
- Hess, S. W., Weaver, J. B., Siegfeldt, H. J., Whelan, J. N., Zitlau, P. A. (1965): Nonpartisan political redistricting by computer. *Operations Research* 13 (6), 998–1006.
- Hettner, A. (1927): *Die Geographie, ihre Geschichte, ihr Wesen und ihre Methoden*. Ferdinand Hirt, Breslau.
- Hill, M. O. (1974): Correspondence analysis: a neglected multivariate method. *Applied Statistics* 23 (3), 340–354.
- Hill, M. O. (1979): TWINSpan. A fortran program for arranging multivariate data in an ordered two-way table by classification of the individuals and attributes. Cornell University, Ithaca, NY, US.
- Hill, M. O. Šmilauer, P. (2005): TWINSpan for Windows version 2.3. Centre for Ecology and Hydrology & University of South Bohemia, Huntingdon & Ceske Budejovice.
- Hillsman, E. L. (1984): The *p*-median structure as a unified linear model for location-allocation analysis. *Environment and Planning A* 16 (3), 305–318.
- Hillsman, E. L., Rhoda, R. (1978): Errors in measuring distances from populations to service centers. *The Annals of Regional Science* 12 (3), 74–88.

- Hincks, S. (2012): Daily interaction of housing and labour markets in north West England. *Regional Studies* 46 (1), 83–104.
- Hincks, S., Wong, C. (2010): The spatial interaction of housing and labour markets: commuting flow analysis of North West England. *Urban Studies* 47 (3), 620–649.
- Hirst, M. A. (1977): Hierarchical aggregation procedures for interaction data: a comment. *Environment and Planning A* 9 (1), 99–103.
- Hodgart, R. L. (1985): Developments in location/allocation modelling. *Geographia Polonica* 51, 265–274.
- Hoffmann, Z. (1971): Závěrečná zpráva úkolu „Geografická rajonizace zemědělství ČSR“. Geografický ústav ČSAV, Brno.
- Hoffmann, Z., Götz, A., Hanzlíková, N., Juránek, S., Kruglová, G. (1972): Zemědělské regiony ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Holmén, H. (1995): What's new and what's regional in the 'new regional geography'? *Geografiska Annaler B* 77 (1), 47–63.
- Holmes, J. H. (1977): Hierarchical regionalization by iterative proportional fitting procedures: a comment. *IEEE Transactions on Systems: Man and Cybernetics* 7 (6), 474–477.
- Holmes, J. H. (1978a): Dyadic interaction matrices: a review of transformation purposes and procedures. *Progress in Human Geography* 2 (3), 467–493.
- Holmes, J. H. (1978b): Transformation of flow matrices to eliminate the effects of differing sizes of origin-destination units: a further comment. *IEEE Transactions on Systems: Man and Cybernetics* 8 (4), 325–332.
- Holmes, J. H., Haggett, P. (1977): Graph theory interpretation of flow matrices: a note on maximization procedures for identifying significant links. *Geographical Analysis* 9 (4), 388–399.
- Holt, D., Steel, D. G., Tranmer, M., Wrigley, N. (1996): Aggregation and ecological effects in geographically based data. *Geographical Analysis* 28 (3), 244–261.
- Holt-Jensen, A. (2006): *Geography – history and concepts: a student's guide*. Sage, Los Angeles.
- Höppner, F., Klawonn, F., Kruse, R., Runkler, T. (1999): *Fuzzy cluster analysis: methods for classification, data analysis and image recognition*. John Wiley and Sons, Chichester.
- Horn, M. E. T. (1995): Solution techniques for large regional partitioning problems. *Geographical Analysis* 27 (3), 230–248.

- Hrádek, M. (2012): Životní jubileum RNDr. Tadeáše Czudka, DrSc. *Informace ČGS* 31 (2), 72–74.
- Hrnčiarová, T., Mackovčín, P., Zvara, I. eds. et al. (2009): Atlas krajiny České republiky. Ministerstvo životního prostředí ČR – Výzkumný ústav Silva Taroucy pro krajinu a okrasné zahradnictví, v.v.i., Praha–Průhonice.
- Hruška, E. (1951): Problematika oblastního a územního plánování a účast geografů při plánování. *Sborník Československé společnosti zeměpisné* 56, 73–92.
- Hruška, E. ed. (1958): Hospodářskogeografické členění Československé republiky. Sborník I. konference hospodářské geografie v Liblicích 1956. Praha.
- Hubert, L. (1973a): Min and max hierarchical clustering using asymmetric similarity measures. *Psychometrika* 38 (1), 63–72.
- Hubert, L. (1973b): Monotone invariant clustering procedures. *Psychometrika* 38 (1), 47–62.
- Hubert, L. (1974a): Approximate evaluation techniques for the single-link and complete-link hierarchical clustering procedures. *Journal of the American Statistical Association* 69 (347), 698–704.
- Hubert, L. J. (1974b): Some applications of graph theory to clustering. *Psychometrika* 39 (3), 283–309.
- Hubert, L. J., Golledge, R. G., Costanzo, C. M. (1981): Generalized procedures for evaluating spatial autocorrelation. *Geographical Analysis* 13 (3), 224–233.
- Hubert, L., Arabie, P. (1985): Comparing partitions. *Journal of Classification* 2 (1), 193–218.
- Hubert, L., Schultz, J. (1976): Quadratic assignment as a general data analysis strategy. *British Journal of Mathematical and Statistical Psychology* 29 (2), 190–241.
- Huff, D. L. (1960): A topographical model of consumer space preferences. *Papers in Regional Science* 6 (1), 159–173.
- Huff, D. L. (1964): Defining and estimating a trading area. *Journal of Marketing* 28 (3), 34–38.
- Hůrský, J. (1978): Regionalizace České socialistické republiky na základě spádu osobní dopravy. *Studia Geographica* 59. Geografický ústav ČSAV, Brno.
- Hwang, S., Thill, J. C. (2009): Delineating urban housing submarkets with fuzzy clustering. *Environment and Planning B* 36 (5), 865–882.
- Illeris, S., Pedersen, P. O. (1968): Central places and functional regions in Denmark: factor analysis of telephone traffic. *Lund Studies in Geography* 30B. C. W. K. Gleerup, Lund.

- Isačenko, A. G. (1965): *Osnovy landšaftovedeniya i fiziko-geografičeskoe rajonirovaniye*. Vyššaja škola, Moskva.
- Isard, W. (1956a): *Location and space-economy: a general theory relating to industrial location, market areas, land use, trade, and urban structure*. Cambridge: Published jointly by the Technology Press of Massachusetts Institute of Technology and John Wiley and Sons, New York.
- Isard, W. (1956b): Regional science, the concept of region, and regional structure. *Papers in Regional Science* 2 (1), 13–26.
- Ivan, A., Kolejka, J., Kunderata, M., Lacina, J., Raušer, J., Vaněčková, L. (1987): Přírodní prostředí. In: *Atlas obyvatelstva ČSSR*. Geografický ústav ČSAV – Federální statistický úřad, Brno–Praha, mapový list V/1.
- Izakian, H., Pedrycz, W., Jamal, I. (2013): Clustering spatiotemporal data: an augmented fuzzy c-means. *IEEE Transactions on Fuzzy Systems* 21 (5), 855–868.
- Jain, A. K. (2010): Data clustering: 50 years beyond *k*-means. *Pattern Recognition Letters* 31 (8), 651–666.
- Jain, A. K., Dubes, R. C. (1988): *Algorithms for clustering data*. Prentice Hall, Englewood Cliffs.
- James, P. E. (1952): Toward a further understanding of the regional concept. *Annals of the Association of American Geographers* 42 (3), 195–222.
- Janák, J., Hledíková, Z., Dobeš, J. (2005): *Dějiny správy v Českých zemích. Od počátků státu po současnost*. Nakladatelství Lidové noviny, Praha.
- Jardine, N., Sibson, R. (1968a): A model for taxonomy. *Mathematical Biosciences* 2 (3–4), 465–482.
- Jardine, N., Sibson, R. (1968b): The construction of hierarchic and non-hierarchic classifications. *The Computer Journal* 11 (2), 177–184.
- Johnston, R. (2000): On disciplinary history and textbooks: or where has spatial analysis gone? *Australian Geographical Studies* 38 (2), 125–137.
- Johnston, R. (2008): Quantitative Human Geography: are we turning full circle? *Geographical Analysis* 40 (3), 332–335.
- Johnston, R. J. (1965): Multi-variate regions: a further approach. *The Professional Geographer* 17 (5), 9–12.
- Johnston, R. J. (1968): Choice in classification: the subjectivity of objective methods. *Annals of the Association of American Geographers* 58 (3), 575–589.



- Johnston, R. J. (1970): Grouping and regionalizing: some methodological and technological observations. *Economic Geography* 46 (supplement), 293–305.
- Johnston, R. J. (1976): Classification in geography. *CATMOG* 6. GeoAbstracts, Norwich.
- Johnston, R. J., Gregory, D., Pratt, G., Watts, M. eds. (2000): The dictionary of human geography. 4<sup>th</sup> edition. Blackwell, Oxford.
- Johnston, R. J., Rossiter, D. J. (1981): An approach to the delimitation of planning regions. *Applied Geography* 1 (1), 55–69.
- Johnston, R. J., Sidaway, J. D. (2004): Geography and geographers: Anglo-American human geography since 1945. 6<sup>th</sup> edition. Hodder Arnold, London.
- Jones, C. (2002): The definition of housing market areas and strategic planning. *Urban Studies* 39 (3), 549–564.
- Jones, C. (2017): Spatial economy and the geography of functional economic areas. *Environment and Planning B* 44 (3), 486–503.
- Jones, C., Coombes, C., Wong, C. (2012): A system of tiered housing market areas and spatial planning. *Environment and Planning B* 39 (3), 518–532.
- Jones, C., Coombes, M., Dunse, N., Watkins, D., Wymer, C. (2012): Tiered housing markets and their relationship to labour market areas. *Urban Studies* 49 (12), 2633–2650.
- Jones, M. (2009): Phase space: geography, relational thinking, and beyond. *Progress in Human Geography* 33 (4), 487–506.
- Jones, W. D. (1934): Procedures in investigating human occupancy of a region. *Annals of the Association of American Geographers* 24 (2), 93–111.
- Kaiser, H. F. (1966): An objective method for establishing legislative districts. *Midwest Journal of Political Science* 10 (2), 200–213.
- Kariel, H. G., Welling, S. L. (1977). A nodal structure for a set of Canadian cities using graph theory and newspaper datelines. *The Canadian Geographer / Le Géographe canadien* 21 (2), 148–163.
- Karlsson, C., Olsson, M. (2006): The identification of functional regions: theory, methods, and applications. *The Annals of Regional Science* 40 (1), 1–18.
- Kaufman, L., Rousseeuw, P. J. (1990): Finding groups in data: an introduction to cluster analysis. John Wiley and Sons, Hoboken.
- Keane, M. (1975): The size of the region-building problem. *Environment and Planning A* 7 (5), 575–577.

- Keane, M. J. (1978): A functional distance approach to regionalization. *Regional Studies* 12 (3), 379–386.
- Kendall, M. G. (1939): The geographical distribution of crop productivity in England. *Journal of the Royal Statistical Society, Series A* 102 (1), 21–62.
- Khan, S. S., Ahmad, A. (2004): Cluster center initialization algorithm for *K*-means clustering. *Pattern Recognition Letters* 25 (11), 1293–1302.
- Khumawala, B. M. (1973): An efficient algorithm for the *p*-median problem with maximum distance constraints. *Geographical Analysis* 5 (4), 309–321.
- Killer, V., Axhausen, K. W. (2010): Mapping overlapping commuting-to-work areas. *Journal of Maps* 6 (1), 147–159.
- Killer, V., Axhausen, K. W. (2011): Understanding overlapping functional commuting regions with confidence ellipses and social network methods. Working Papers Traffic and Spatial Planning 714, IVT, ETH Zurich, Zurich.
- Kim, H., Chun, Y., Kim, K. (2015): Delimitation of functional regions using a *p*-regions problem approach. *International Regional Science Review* 38 (3), 235–263.
- Kim, K., Dean, D. J., Kim, H., Chun, Y. (2016): Spatial optimization for regionalization problems with spatial interaction: a heuristic approach. *International Journal of Geographical Information Science* 30 (3), 451–473.
- Kimble, G. H. T. (1951): The inadequacy of the regional concept. In: Stamp, L. D., Wooldridge, S. W. eds.: London essays in geography: Rodwell Jones memorial volume. London School of Economics and Political Science (University of London), London, 151–174.
- King, L. J. (1969): *Statistical analysis in geography*. Prentice Hall, Englewood Cliffs.
- Kirkpatrick, S., Gelatt jr., C. D., Vecchi, M. P. (1983): Optimization by simulated annealing. *Science* 220 (4598), 671–680.
- Klapka, P., Halás, M. (2016): Conceptualising patterns of spatial flows: five decades of advances in the definition and use of functional regions. *Moravian Geographical Reports* 24 (2), 2–11.
- Klapka, P., Halás, M., Erlebach, M., Tonev, P., Bednář, M. (2014): A multistage agglomerative approach for defining functional regions of the Czech Republic: the use of 2001 commuting data. *Moravian Geographical Reports* 22 (4), 2–13.
- Klapka, P., Halás, M., Netrdová, P., Nosek, V. (2016): The efficiency of areal units in spatial analysis: Assessing the performance of functional and administrative regions. *Moravian Geographical Reports* 24 (2), 47–59.

- Klapka, P., Halás, M., Tonev, P. (2013a): Functional regions: concept and types. In: Klímová, V., Žítek, V. eds.: 16<sup>th</sup> International Colloquium on Regional Sciences, Conference Proceedings. Masaryk University, Brno, 94–101.
- Klapka, P., Halás, M., Tonev, P., Bednář, M. (2013b): Functional regions of the Czech Republic: comparison of simpler and more advanced methods of regional taxonomy. *Acta Universitatis Palackianae Olomucensis, Facultas Rerum Naturalium, Geographica*, 44 (1), 45–57.
- Klapka, P., Niedźwiedzová, K. (2010): Geographical organisation of the Nový Jičín region: transformations of its selected aspects during the Industrial Revolution (Czech lands). *Moravian Geographical Reports* 18 (4), 39–55.
- Klapka, P., Tonev, P. (2008): Regiony a regionalizace. In: Toušek, V., Kunc, J., Vystoupil, J. et al.: *Ekonomická a sociální geografie. Vydavatelství a nakladatelství Aleš Čeněk, Plzeň*, 371–397.
- Klein, G., Aronson, J. E. (1991): Optimal clustering: a model and method. *Naval Research Logistics* 38 (3), 447–461.
- Klein, R. W., Dubes, R. C. (1989): Experiments in projection and clustering by simulated annealing. *Pattern Recognition* 22 (2), 213–220.
- Kohn, C. F. (1970): Regions and regionalizing. *Journal of Geography* 69 (3), 134–140.
- Köhn, H.-F., Steinley, D., Brusco, M. J. (2010): The  $p$ -median model as a tool for clustering psychological data. *Psychological Methods* 15 (1), 87–95.
- Koláček, F. (1924): Přírodní krajiny na Moravě v Českém Slezsku. *Příroda* 17 (7; 8–9), 249–253; 314–324.
- Koláček, F. (1934): *Zeměpis Československa*. Melantrich, Praha.
- Koláček, F., Krejčí, J., Semerád, A., Vitásek F. eds. (1938): *Sborník IV. sjezdu československých geografů v Olomouci 1937. Spisy odboru Československé společnosti zeměpisné, řada 7*, Brno.
- Kolejka, J. (1992): Typy přírodní krajiny. In: Viturka, M. ed.: *Atlas životního prostředí a zdraví obyvatelstva ČSFR. Geografický ústav ČSAV – Federální výbor pro životní prostředí*, Brno–Praha, mapový list A2.
- Kolejka, J. (2009): Typy přírodní krajiny. In: Hrnčiarová, T. ed. et al.: *Atlas krajiny České republiky. Ministerstvo životního prostředí ČR – Výzkumný ústav Silva Taroucy pro krajinu a okrasné zahradnictví, v.v.i., Praha–Průhonice*, 154–156.

- Kolejka, J., Hynek, A., Trnka, P. (2011): Individuální přírodní krajinné jednotky Česka a jejich hierarchické zařazení i názvosloví. In: Herber, V. ed.: Fyzickogeografický sborník 9, Fyzická geografie a životní prostředí. Masarykova univerzita, Brno, 34–39.
- Kolejka, J., Romportl, D., Lipský, Z. (2009): Typy současné krajiny. In: Hrnčiarová, T. ed. et al.: Atlas krajiny České republiky. Ministerstvo životního prostředí ČR – Výzkumný ústav Silva Taroucy pro krajinu a okrasné zahradnictví, v.v.i., Praha–Průhonice, 194–195.
- Kolejka, J., Lipský, Z. (1999): Mapy současné krajiny. Geografie – Sborník České geografické společnosti 104 (3), 161–175.
- Kolosovskij, N. N. (1947): Proizvodstvenno-territorialnoe sočetaņije (kompleks) v sovetskoi ekonomičeskoj goografii. Voprosy geografii 6, 133–168.
- Kolosovskij, N. N. (1958): Osnovy ekonomičeskogo rajonirovanija. Gospolizdat, Moskva.
- Kondracki, J. (1955): Problematyka fizyczno-geograficznej regionalizacji Polski. Przegląd Geograficzny 27 (2), 298–309.
- Kondracki, J. (1961): W sprawie terminologii i taksonomii jednostek regionalnych w geografii fizycznej Polski. Przegląd Geograficzny 33 (1), 23–28.
- Kondracki, J. (1969): Podstawy regionalizacji fizycznogeograficznej. PWN, Warszawa.
- Konjar, M., Lisec, A., Drobne, S. (2010): Methods for delineation of functional regions using data on commuters. In: Painho, M., Santos, M. Y., Pundt, H. eds.: Geospatial thinking: proceedings of the 13<sup>th</sup> AGILE International Conference on Geographic Information Science. Guimaraes, Portugal, 1–10.
- Koontz, W. L. G., Narendra, P. M., Fukunaga, K. (1975): A branch and bound clustering algorithm. IEEE Transactions on Computers 100 (9), 908–915.
- Koontz, W. L., Narendra, P. M., Fukunaga, K. (1976): A graph-theoretic approach to nonparametric cluster analysis. IEEE Transactions on Computers 25 (9), 936–944.
- Korčák, J. (1931): Příspěvek k teorii národnosti. Sociální problémy 1, 167–189.
- Korčák, J. (1933): Regionální členění Československa. In: Král, J. ed.: Sborník II. sjezdu československých geografů v Bratislavě 1933. Zeměpisné práce, Bratislava, 161–163.
- Korčák, J. (1934): Regionální členění Československa. Statistický obzor 15 (9–10), 416–434.
- Korčák, J. (1936): Výsledek II. ankety o regionálním členění Československa. In: Švambara, V., Kuchař, K. eds.: Sborník III. sjezdu československých geografů v Plzni 1935. Travaux géographiques tchéques, Praha, 108–111.
- Korčák, J. (1938a): Geopolitické základy Československa: jeho kmenové oblasti. Orbis, Praha.

- Korčák, J. (1938b): Modifikace historického rozdělení krajového. In: Koláček, F., Krejčí, J., Semerád, A., Vitásek F. eds.: Sborník IV. sjezdu československých geografů v Olomouci 1937. Spisy odboru Československé společnosti zeměpisné, řada 7, Brno, 103–105.
- Korčák, J. (1941): Přírodní dualita statistického rozložení. *Statistický obzor* 22 (5–6), 171–222.
- Korčák, J. (1947): Území a populace v teorii národa. *Sociologie a sociální problémy* 7 (2), 94–108.
- Korčák, J. (1958): Vývoj metod regionálního členění ČSR. In: Hruška, E. ed.: Hospodářskogeografické členění Československé republiky. Sborník I. konference hospodářské geografie v Liblicích 1956. Praha, 18–31.
- Korčák, J. (1960): Economic geography in Czechoslovakia. Sborník Československé společnosti zeměpisné 65 (3), 246–252.
- Korčák, J. (1968): Central concept of political geography. Sborník Československé společnosti zeměpisné 73 (3), 266–277.
- Korčák, J. (1973): Geografie obyvatelstva ve statistické syntéze. Univerzita Karlova, Praha.
- Kořistka, K. (1872): Rozdělení země v přirozené krajiny. In: Zpráva o činnosti Ústředního výboru pro statistiku polního a lesního hospodářství království Českého za rok 1871. Praha, 7–23.
- Kořistka, K. (1885): Přirozené krajiny Čech, jejich půda a podnebí. In: Příspěvky ku statistice lesů v Čechách. Praha, 9–37.
- Král, J. ed. (1933): Sborník II. sjezdu československých geografů v Bratislavě 1933. Zeměpisné práce, Bratislava.
- Kříž, H. (1973): Regiony mělkých podzemních vod v České socialistické republice. *Studia Geographica* 30. Geografický ústav ČSAV, Brno.
- Kropp P., Schwengler, B. (2011): Abgrenzung von Arbeitsmarktregionen – ein Methodenvorschlag. *Raumforschung und Raumordnung* 69 (1), 45–62.
- Kropp, P., Schwengler, B. (2016): Three-step method for delineating functional labour market regions. *Regional Studies* 50 (3), 429–445.
- Kropp, P., Schwengler, B. (2017): Stability of functional labour market regions. IAB-Discussion Paper 21.
- Kruskal, J. B. (1964): Nonmetric multidimensional scaling: a numerical method. *Psychometrika* 29 (2), 115–129.
- Küchler, A. W. (1973): Problems in classifying and mapping vegetation for ecological regionalization. *Ecology* 54 (3), 512–523.

- Kunc, J. (2006): Bosch Diesel – Not only an industrial phenomenon in the Vysočina region (Czech Republic). *Moravian Geographical Reports* 14 (1), 29–38.
- Kwan, M. P. (2002): Feminist visualization: re-envisioning GIS as a method in feminist geographic research. *Annals of the Association of American Geographers* 92 (4), 645–661.
- Kwan, M. P. (2004): Beyond difference: from canonical geography to hybrid geographies. *Annals of the Association of American Geographers* 94 (4), 756–763.
- Kwan, M. P., Schwanen, T. (2009): Quantitative revolution 2: the critical (re) turn. *The Professional Geographer* 61 (3), 283–291.
- Kwan, M. P., Weber, J. (2003): Individual accessibility revisited: implications for geographical analysis in the twenty-first century. *Geographical Analysis* 35 (4), 341–353.
- Laan, L. van der, Schalke, R. (2001): Reality versus policy: the delineation and testing of local labour market and spatial policy areas. *European Planning Studies* 9 (2), 201–221.
- Laan, M. van der, Pollard, K., Bryan, J. (2003): A new partitioning around medoids algorithm. *Journal of Statistical Computation and Simulation* 73 (8), 575–584.
- Lacina, J., Vašátko, J. (1993): Zemřel RNDr. Jaroslav Raušer, CSc. *Geografie – Sborník České geografické společnosti* 98 (4), 249.
- Lance, G. N., Williams, W. T. (1966): Computer programs for hierarchical polythetic classification (“similarity analyses”). *The Computer Journal* 9 (1), 60–64.
- Lance, G. N., Williams, W. T. (1967): A general theory of classificatory sorting strategies: 1. hierarchical systems. *The Computer Journal* 9 (4), 373–380.
- Lancichinetti, A., Fortunato, S. (2009): Community detection algorithms: a comparative analysis. *Physical Review E* 80 (5), 056117.
- Lancichinetti, A., Fortunato, S., Kertész, J. (2009): Detecting the overlapping and hierarchical community structure in complex networks. *New Journal of Physics* 11 (3), 033015.
- Lancichinetti, A., Radicchi, F., Ramasco, J. J., Fortunato, S. (2011): Finding statistically significant communities in networks. *PloS One* 6 (4), e18961.
- Landré, M. (2012): Geoprocessing journey-to-work data: delineating commuting regions in Dalarna, Sweden. *ISPRS International Journal of Geo-Information* 1 (3), 294–314.
- Landré, M., Håkansson, J. (2013): Rule versus interaction function: evaluating regional aggregations of commuting flows in Sweden. *European Journal of Transport and Infrastructure Research* 13 (1), 1–19.

- Lankford, P. M. (1969): Regionalization: theory and alternative algorithms. *Geographical Analysis* 1 (2), 196–212.
- Lankford, P. M., Semple, R. K. (1973): Classification and geography. *Geographia Polonica* 25, 7–30.
- Láznička, Z. (1965): Funkční klasifikace československých sídel (s více než 5 000 obyvateli). *Zprávy o vědecké činnosti* 5. Geografický ústav ČSAV, Brno, 19–52.
- Láznička, Z. (1972): Funkční klasifikace obcí ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Láznička, Z. (1974): Funkční klasifikace obcí ČSR (ekonomická struktura obcí ČSR podle pracovních příležitostí). *Rozpravy ČSAV* 84 (2), řada matematických a přírodních věd. Academia, Praha.
- Leicht, E. A., Newman, M. E. (2008): Community structure in directed networks. *Physical Review Letters* 100 (11), 118703.
- Lenntorp, B. (1976): Paths in Space-Time Environments. A Time-Geographic Study of Movement Possibilities of Individuals. *Lund Studies in Geography, Series B*, 44. Royal University of Lund, Lund.
- Leontief, W. W. (1965): The structure of the U.S. economy. *Scientific American* 212 (4), 25–35.
- Lepš, J., Šmilauer, P. (1999): Multivariate analysis of ecological data. Faculty of Biological Sciences, University of South Bohemia, České Budějovice.
- Leszczycki, S., Górecka, L. (1965): Aims of economic regionalization. *Geographia Polonica* 8. PWN, Warszawa.
- Leung, I. X., Hui, P., Lio, P., Crowcroft, J. (2009): Towards real-time community detection in large networks. *Physical Review E* 79 (6), 066107.
- Leung, Y. (1984): Towards a flexible framework for regionalization. *Environment and Planning A* 16 (12), 1613–1632.
- Leung, Y. (1985): Basic issues of fuzzy set theoretic spatial analysis. *Papers in Regional Science* 58 (1), 35–46.
- Leung, Y. (1987): On the imprecision of boundaries. *Geographical Analysis* 19 (2), 125–151.
- Li, W., Church, R. L., Goodchild, M. F. (2014): The  $p$ -compact-regions problem. *Geographical Analysis* 46 (3), 250–273.

- Lipský, Z., Romportl, D. (2007): Typologie krajiny v Česku a zahraničí – stav problematiky, metody a teoretická východiska. *Geografie – Sborník České geografické společnosti* 112 (1), 61–83.
- Liu, M., Samal, A. (2002): A fuzzy clustering approach to delineate agroecozones. *Ecological Modelling* 149 (3), 215–228.
- Lösch, A. (1940): *Die räumliche Ordnung der Wirtschaft. Eine Untersuchung über Standort, Wirtschaftsgebiete und internationalem Handel.* Gustav Fischer, Jena.
- Loveland, T. R., Merchant, J. M. (2004): Ecoregions and ecoregionalization: geographical and ecological perspectives. *Environmental Management* 34 (1), S1.
- Lukniš, M. (1985): Regionálne členenie Slovenskej socialistickej republiky z hľadiska jej racionálneho rozvoja. *Geografický časopis* 37 (2–3), 137–163.
- Macgill, S. M. (1977): Theoretical properties of biproportional matrix adjustments. *Environment and Planning A* 9 (6), 687–701.
- Macka, M. (1964): K výzkumu pohybu obyvatelstva dojížděním do zaměstnání. *Zprávy Geografického ústavu ČSAV* 2 (3), 9–10.
- Macka, M. (1967): Rajony dojíždění středisek s více jak 1 000 dojíždějících v českých zemích. *Mapa 1 : 750 000.* Geografický ústav ČSAV, Brno.
- Macka, M. (1969): Vymezování oblastí podle dojíždky do zaměstnání. In: Macka, M. ed.: *Studia Geographica* 8. Geografický ústav ČSAV, Brno, 91–106.
- Macka, M. (1983): Hlavní výsledky ekonomickogeografických výzkumů v ČSR v šestém 5LP 1976–1980. *Zprávy Geografického ústavu ČSAV* 20 (3), 21–27.
- Macka, M. ed. (1967): *Economic regionalisation.* Academia, Praha.
- Macka, M. ed. (1969): K metodám ekonomicko-geografické regionalizace. *Studia Geographica* 8. Geografický ústav ČSAV, Brno.
- Mackay, J. R. (1958): Chi square as a tool for regional studies. *Annals of the Association of American Geographers* 48 (2), 164.
- Mackay, J. R., Berry, B. L. J. (1959): Comments on the use of Chi-Square. *Annals of the Association of American Geographers* 49 (1), 89.
- Mackey, B. G., Berry, S. L., Brown, T. (2008): Reconciling approaches to biogeographical regionalization: a systematic and generic framework examined with a case study of the Australian continent. *Journal of Biogeography* 35 (2), 213–229.
- Mackinder, H. J. (1902): *Britain and the British seas.* William Heinemann, London.



- Macmillan, W. (2001): Redistricting in a GIS environment: an optimisation algorithm using switching-points. *Journal of Geographical Systems* 3 (2), 167–180.
- MacNaughton-Smith, P., Williams, W. T., Dale, M. B., Mockett, L. G. (1964): Dissimilarity analysis: a new technique of hierarchical sub-division. *Nature* 202 (4936), 1034–1035.
- MacQueen, J. (1967): Some methods for classification and analysis of multivariate observations. In: *Proceedings of the fifth Berkeley symposium on mathematical statistics and probability* 1 (14), 281–297.
- Malík, K. (1929): Tovární průmysl v přirozených oblastech Československa podle dosavadních výsledků sčítání větších závodů. *Sborník Československé společnosti zeměpisné* 35 (1–2), 41–61.
- Maranzana, F. E. (1964): On the location of supply points to minimize transport costs. *Operation Research Quarterly* 15 (3), 261–270.
- Mareš, J. (1976): Průmyslové regiony ČSR. Mapa 1: 500 000. Geografický ústav ČSAV, Brno.
- Mareš, J. (1980): Geografický potenciál průmysl ČSR. *Studia Geographica* 69. Geografický ústav ČSAV, Brno.
- Mareš, J. (1980): Průmyslové regiony ČSR. *Rozpravy ČSAV* 90 (6), řada matematických a přírodních věd. Academia, Praha.
- Mareš, J., Strída, M. (1988): Geographical regionalization in the Czechoslovak academy of sciences. *Sborník prací* 15. Geografický ústav ČSAV, Brno, 113–122.
- Margules, C. R., Faith, D. P., Belbin, L. (1985): An adjacency constraint in agglomerative hierarchical classifications of geographic data. *Environment and Planning A* 17 (3), 397–412.
- Marriott, F. H. C. (1971): Practical problems in a method of cluster analysis. *Biometrics* 27 (3), 501–514.
- Martin, D., Nolan, A., Tranmer, M. (2001): The application of zone-design methodology in the 2001 UK Census. *Environment and Planning A* 33 (11), 1949–1962.
- Martínek, J. (2008): *Geografové v českých zemích 1800–1945*. Historický ústav AV ČR, Praha.
- Martínek, J. (2009): Jaromír Demek oceněný za celoživotní přínos k rozvoji katedry geografie na PřF UP v Olomouci. *Informace ČGS* 28 (1), 46–48.
- Martínek, J., Martínek, M. (1998): *Kdo byl kdo: naši cestovatelé a geografové*. Libri, Praha.
- Martínez-Bernabeu, L., Casado-Díaz, J. M. (2016): Delineating zones to increase geographical detail in individual response data files: an application to the Spanish 2011 census of population. *Moravian Geographical Reports* 24 (2), 26–36.

- Martínez-Bernabeu, L., Flórez-Revuelta, F., Casado-Díaz, J. M. (2012): Grouping genetic operators for the delineation of functional areas based on spatial interaction. *Expert Systems with Applications* 39 (8), 6754–6766.
- Maryáš, J. (1987): Dojíždka do škol a za službami. In: Atlas obyvatelstva ČSSR. Geografický ústav ČSA – Federální statistický úřad, Brno–Praha, mapový list III/2.
- Maryáš, J. (2003): Nové územně správní členění České republiky – pověřené obce III. stupně. In: *Teória a prax verejnej správy*. UPJŠ, Košice, 109–113.
- Maryáš, J., Řehák, S. (1987a): Regionální působnost středisek osídlení. In: Atlas obyvatelstva ČSSR. Geografický ústav ČSAV– Federální statistický úřad, Brno–Praha, mapový list III/4.
- Maryáš, J., Řehák, S. (1987b): Soupis sociálně geografických regionů ČSSR. *Zprávy Geografického ústavu ČSAV* 24 (2), 43–58.
- Maryáš, J., Řehák, S. (1990): Ještě k mapě „Regionální působnost středisek osídlení“. *Zprávy Geografického ústavu ČSAV* 27 (2), 56–60.
- Mason, G. A., Jacobson, R. D. (2007): Fuzzy geographically weighted clustering. In: Demšar, U. ed.: *Proceedings of the 9<sup>th</sup> international conference on geocomputation*. Maynooth, Eire, Ireland.
- Masser, I., Batey, P. W. J., Brown, P. J. B. (1975): The design of zoning systems for interaction models. *London Papers in Regional Science* 5: *Regional Science – New Concepts and Old Problems*, 166–187.
- Masser, I., Batey, P. W. J., Brown, P. J. B. (1978): Sequential treatment of the multi-criteria aggregation problem: a case study of zoning system design. In: Masser, I., Brown, P. J. B. eds.: *Spatial representation and spatial interaction*. *Studies in Applied Regional Science* 10. Martinus Nijhoff, Leiden–Boston, 27–50.
- Masser, I., Brown, P. J. B. (1975): Hierarchical aggregation procedures for interaction data. *Environment and Planning A* 7 (5), 509–523.
- Masser, I., Brown, P. J. B. (1977): Spatial representation and spatial interaction. *Papers of the Regional Science Association* 38 (1), 71–92.
- Masser, I., Brown, P. J. B. (1978): Spatial representation and spatial interaction: an overview. In: Masser, I., Brown, P. J. B. eds.: *Spatial representation and spatial interaction*. *Studies in Applied Regional Science* 10. Martinus Nijhoff, Leiden–Boston, 1–23.
- Masser, I., Scheurwater J. (1978): The specification of multi-level systems for spatial analysis. In: Masser, I., Brown, P. J. B. eds.: *Spatial representation and spatial interaction*. *Studies in Applied Regional Science* 10. Martinus Nijhoff, Leiden–Boston, 151–172.

- Milligan, G. W., Cooper, M. C. (1985): An examination of procedures for determining the number of clusters in a data set. *Psychometrika* 50 (2), 159–179.
- Milligan, G. W., Cooper, M. C. (1986): A study of the comparability of external criteria for hierarchical cluster analysis. *Multivariate Behavioral Research* 21 (4), 441–458.
- Milligan, G. W., Cooper, M. C. (1988): A study of standardization of variables in cluster analysis. *Journal of Classification* 5 (2), 181–204.
- Mitchell, W., Watts, M. (2010): Identifying functional regions in Australia using hierarchical aggregation techniques. *Geographical Research* 48 (1), 24–41.
- Mladenović, N., Brimberg, J., Hansen, P., Moreno-Pérez, J. A. (2007): The  $p$ -median problem: a survey of metaheuristic approaches. *European Journal of Operational Research* 179 (3), 927–939.
- MMR (2013): *Strategie regionálního rozvoje ČR 2014–2020*. MMR, Praha.
- Moellering, H., Tobler, W. (1972): Geographical variances. *Geographical Analysis* 4 (1), 34–50.
- Morrill, R. L. (1970): *The Spatial Organization of Society*. Wadsworth Publishing Company, Belmont.
- Morrill, R. L. (1974): *The Spatial Organization of Society*. 2<sup>nd</sup> edition. Duxbury Press, North Scituate.
- Morrill, R. L., Symons, J. (1977): Efficiency and equity aspects of optimum location. *Geographical Analysis* 9 (3), 215–225.
- Moschelesová, J. (1921): *Wirtschaftsgeographie der Tschechoslowakischen Republik*. Haase, Prag–Wien–Leipzig.
- Moschelesová, J., Ulrich, F. (1937): K diskusi o regionalismu. *Brázda* 18 (9–10), 136–139.
- Mu, L., Wang, F. (2008): A scale-space clustering method: mitigating the effect of scale in the analysis of zone-based data. *Annals of the Association of American Geographers* 98 (1), 85–101.
- Müller, J., Hamplová, Z. (1994): Vymezení spádových obvodů středisek osídlení (mikroregiony): pro potřeby regionální politiky a politiky zaměstnanosti. Terplan, Praha.
- Muller, J.-C. (1982): Non-Euclidean geographic spaces: mapping functional distances. *Geographical Analysis* 14 (3), 189–203.
- Murphy, A. B. (1991): Regions as social construct: the gap between theory and practice. *Progress in Human Geography*, 15 (1), 23–35.

- Murray, A. T. (1999): Spatial analysis using clustering methods: evaluating central point and median approaches. *Journal of Geographical Systems* 1 (4), 367–383.
- Murray, A. T. (2000): Spatial characteristics and comparisons of interaction and median clustering models. *Geographical Analysis* 32 (1), 1–18.
- Murray, A. T., Estivill-Castro, V. (1998): Cluster discovery techniques for exploratory spatial data analysis. *International Journal of Geographical Information Science* 12 (5), 431–443.
- Murray, A. T., Grubestic, T. H. (2002): Identifying non-hierarchical spatial clusters. *International Journal of Industrial Engineering: Theory Applications and Practice* 9 (1), 86–95.
- Murray, A. T., Grubestic, T. H., Wei, R. (2014): Spatially significant cluster detection. *Spatial Statistics* 10, 103–116.
- Murtagh, F. (1983): A survey of recent advances in hierarchical clustering algorithms. *The Computer Journal* 26 (4), 354–359.
- Murtagh, F. (1985): A survey of algorithms for contiguity-constrained clustering and related problems. *The Computer Journal* 28 (1), 82–88.
- Murthy, C. A., Chowdhury, N. (1996): In search of optimal clusters using genetic algorithms. *Pattern Recognition Letters* 17 (8), 825–832.
- Nagamochi, H., Ibaraki, T. (1992): Computing edge-connectivity in multigraphs and capacitated graphs. *SIAM Journal on Discrete Mathematics* 5 (1), 54–66.
- Nagel, S. S. (1965): Simplified bipartisan computer redistricting. *Stanford Law Review* 17 (5), 863–899.
- Náhlovský, J. ed. (1929): Z ankety o návrhu na vytvoření nových oblastních jednotek statistických na podkladě geografickém. *Československý statistický věstník* 10, 323–332.
- Narula, S. C., Ogbu, U. I., Samuelsson, H. M. (1977): An algorithm for the  $p$ -median problem. *Operations Research* 25 (4), 709–713.
- Naveh, Z., Lieberman, A. S. (1994): *Landscape ecology: theory and application*. 2<sup>nd</sup> edition. Springer Science + Business Media, New York.
- Neef, E. (1963): Dimensionen geographischer Betrachtungen. *Forschung und Fortschritt* 37, 361–363.
- Nel, J. H., Krygsman, S. C., de Jong, T. (2008): The identification of possible future provincial boundaries for South Africa based on an intramax analysis of journey-to-work data. *ORiON* 24 (2), 131–156.

- Newell, J. O., Perry, M. (2005): Explaining continuity in New Zealand's local labour market areas 1991 to 2001. *Australasian Journal of Regional Studies* 11 (2), 155–174.
- Newman, M. E. (2001): Scientific collaboration networks. II. Shortest paths, weighted networks, and centrality. *Physical Review E* 64 (1), 016132.
- Newman, M. E. (2003): The structure and function of complex networks. *SIAM Review* 45 (2), 167–256.
- Newman, M. E. (2004a): Analysis of weighted networks. *Physical Review E* 70 (5), 056131.
- Newman, M. E. (2004b): Fast algorithm for detecting community structure in networks. *Physical Review E* 69 (6), 066133.
- Newman, M. E. (2006a): Finding community structure in networks using the eigenvectors of matrices. *Physical Review E* 74 (3), 036104.
- Newman, M. E. (2006b): Modularity and community structure in networks. *Proceedings of the National Academy of Sciences* 103 (23), 8577–8582.
- Newman, M. E., Girvan, M. (2004): Finding and evaluating community structure in networks. *Physical Review E* 69 (2), 026113.
- Ng, R. C. Y. (1969): Recent internal population movement in Thailand. *Annals of the Association of American Geographers* 59 (4), 710–730.
- Nikitin, N. P. (1957): Nikolaj Platanovič Ogarjev o rajonirovanii Rossii. In: Baranskij, N. N., Nikitin, N. P., Sauškin. J. G. eds: *Otečestvennyje ekonomiko-geografy XVII–XX vv. Gosudarstvennoje učebno-pedagogičeskoje izdatelstvo Ministerstva prosvěščenija RSFSR, Moskva.*
- Noronha, V. T., Goodchild, M. F. (1992): Modeling interregional interaction: implications for defining functional regions. *Annals of the Association of American Geographers* 82 (1), 86–102.
- Nosek, M., Demek, J. (1974): K padesátinám doc. RNDr. Miroslava Macky, CSc. *Sborník Československé společnosti zeměpisné* 79 (4), 299–303.
- Novák, V. ed. (1925): *Přirozené zemědělské krajiny a výrobní oblasti v Republice Československé. Knihovna statistického věstníku 6. Státní úřad statistický, Praha.*
- Novák, V. (2009): *Dojíždka za prací a pracovně podmíněná migrace v kraji Vysočina. Ms. disertační práce. Geografický ústav MU, Brno.*
- Nováková, B. (1971): *Imigrační regiony ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.*

- Novotný, J. (2010): Korčákův zákon aneb zajímavá historie přírodní duality statistického rozložení. *Informace ČGS* 29 (1), 1–10.
- Nystuen, J. D., Dacey, M. F. (1961): A graph theory interpretation of nodal regions. *Regional Science Association, Papers and Proceedings* 7 (1), 29–42.
- OECD (2002): *Redefining territories. The functional regions.* OECD Publications, Paris.
- Okabe, A. (1981): Statistical analysis of the pattern similarity between two sets of regional clusters. *Environment and Planning A* 13 (5), 547–562.
- Openshaw, S. (1974): A regionalisation program for large data sets. *Computer Applications* 1 (3–4), 136–160.
- Openshaw, S. (1976): A regionalization procedure for a comparative regional taxonomy of the UK. *Area* 8 (2), 149–152.
- Openshaw, S. (1977a): A geographical solution to scale and aggregation problems in region-building, partitioning and spatial modelling. *Transactions of the Institute of British Geographers, New Series* 2 (4), 459–472.
- Openshaw, S. (1977b): Algorithm 3: a procedure to generate pseudo-random aggregations of  $N$  zones into  $M$  zones, where  $M$  is less than  $N$ . *Environment and Planning A* 9 (12), 1423–1428.
- Openshaw, S. (1977c): Optimal zoning system for spatial interaction models. *Environment and Planning A* 9 (2), 169–184.
- Openshaw, S. (1978a): An empirical study of some zone-design criteria. *Environment and Planning A* 10 (7), 781–794.
- Openshaw, S. (1978b): An optimal zoning approach to the study of spatially aggregated data. In: Masser, I., Brown, P. J. B. eds.: *Spatial interaction and spatial representation. Studies in Applied Regional Science* 10. Martinus Nijhoff, Leiden–Boston, 95–113.
- Openshaw, S. (1984a): Ecological fallacies and the analysis of areal census data. *Environment and Planning A* 16 (1), 17–31.
- Openshaw, S. (1984b): *The Modifiable Areal Unit Problem.* CATMOG 38. GeoBooks, Norwich.
- Openshaw, S., Albanides, S. (1999): Applying geocomputation to the analysis of spatial distributions. In: Longley, P. A., Goodchild, M. F., Maguire, D. J., Rhind, D. W. eds.: *Geographical information systems: principles and technical issues* 1. John Wiley and Sons, New York, 267–282.

- Openshaw, S., Rao, L. (1995): Algorithms for reengineering 1991 Census geography. *Environment and Planning A* 27 (3), 425–446.
- Openshaw, S., Taylor, P. (1979): A million or so correlation coefficients: three experiments on the modifiable area unit problem. In: Wrigley, N. ed.: *Statistical Applications in the Spatial Sciences*. Pion, London, 127–144.
- Paasi, A. (1986): The institutionalization of regions: a theoretical framework for understanding the emergence of regions and the constitution of regional identity. *Fennia* 164 (1), 105–146.
- Paasi, A. (1991): Deconstructing regions: notes on the scales of spatial life. *Environment and Planning A* 23 (2), 239–256.
- Paasi, A. (2002): Place and region: regional worlds and words. *Progress in Human Geography* 26 (6), 802–811.
- Paasi, A. (2003): Region and place: regional identity in question. *Progress in Human Geography* 27 (4), 475–485.
- Paasi, A. (2004): Place and region: looking through the prism of scale. *Progress in Human Geography* 28 (4), 536–546.
- Paasi, A. (2010): Commentary. *Environment and Planning A* 42 (10), 2296–2301.
- Palla, G., Derényi, I., Farkas, I., Vicsek, T. (2005): Uncovering the overlapping community structure of complex networks in nature and society. *Nature* 435 (7043), 814–818.
- Pálóczi, G., Péntzes, J., Hurbánek, P., Halás, M., Klapka, P. (2016): Attempts to delineate functional regions in Hungary based on commuting data. *Regional Statistics* 6 (1), 23–41.
- Papps, K. L., Newell, J. O. (2002): Identifying functional labour market areas in New Zealand: a reconnaissance study using travel-to-work data. Discussion Paper 443. Institute for the Study of Labor, Bonn.
- Park, H. S., Jun, C. H. (2009): A simple and fast algorithm for K-medoids clustering. *Expert Systems with Applications* 36 (2), 3336–3341.
- Parysek, J. J. (1982): *Modele klasyfikacji w geografii*. Seria Geographia 31. Wydawnictwo naukowe UAM, Poznań.
- Parysek, J. J. (1989): Types of classes and spatial classification. *Concepts and Methods in Geography* 2. Adam Mickiewicz University Press, Poznań, 25–36.
- Paulov, J. (1993): Entropia v urbánnej a regionálnej analýze: konceptuálny rámce a základy aplikácie. *Geographia Slovaca* 2. SAV, GgÚ, Bratislava.

- Peet, R. (1998): *Modern geographical thought*. Blackwell, Oxford.
- Pelišek, J., Sekaninová, D. (1975): *Pedogeografická regionalizace ČSR*. *Studia Geographica* 49. Geografický ústav ČSAV, Brno.
- Penck, A. (1928): *Neuere Geographie*. In: Haushofer, A. ed.: *Sonderband der Zeitschrift der Gesellschaft für Erdkunde zu Berlin, Hundertjahrfeier 1828–1928*, Berlin, 31–56.
- Perlín, R. et al. (1993): *Územní členění České republiky. Výstavba a architektura* 39 (3), 12–21.
- Persyn, D., Torfs, W. (2011): *Functional labour markets in Belgium: evolution over time and intersectoral comparison*. Discussion Paper 17. Vlaams Instituut voor Economie en Samenleving. Katholieke Universiteit, Leuven, 1–17.
- Philbrick, A. K. (1957): *Principles of areal functional organization in regional human geography*. *Economic Geography*, 33 (4), 299–336.
- Plane, D. (1998): *Fuzzy-set migration regions*. *Geographical and Environmental Modelling* 2 (2), 141–162.
- Plane, D. A. (1981): *The geography of urban commuting fields: some empirical evidence from New England*. *The Professional Geographer* 33 (2), 182–188.
- Plane, D. A. (1982): *Redistricting reformulated: a maximum interaction/minimum separation objective*. *Socio-Economic Planning Sciences* 16 (6), 241–244.
- Platt, R. S. (1935): *Field approach to regions*. *Annals of the Association of American Geographers* 25 (3), 153–174.
- Pocock, D. C. D., Wishart, D. (1969): *Methods of deriving multi-factor uniform regions*. *Transactions of the Institute of British Geographers* 47, 73–98.
- Ponsard, C. (1977): *Hiérarchie des places centrales et graphes  $\Phi$ -flous*. *Environment and Planning A* 9 (11), 1233–1252.
- Ponsard, C., Tranqui, P. (1985): *Fuzzy economic regions in Europe*. *Environment and Planning A* 17 (7), 873–887.
- Poon, J. P. (2003): *Quantitative methods: producing quantitative methods narratives*. *Progress in Human Geography* 27 (6), 753–762.
- Pred, A. (1977): *The choreography of existence: comments on Hägerstrand's time-geography and its usefulness*. *Economic Geography* 53 (2), 207–221.
- Pred, A. (1981): *Social reproduction and the time-geography of everyday life*. *Geografiska Annaler B* 63 (1), 5–22.



- Pred, A. (1984): Place as historically contingent process: structuration and the time-geography of becoming places. *Annals of the Association of American geographers* 74 (2), 279–297.
- Pudup, M. B. (1988): Arguments within regional geography. *Progress in Human Geography* 12 (3), 369–390.
- Putman, S. H., Chung, S. H. (1989): Effects of spatial system design on spatial interaction models. 1: The spatial system definition problem. *Environment and Planning A* 21 (1), 27–46.
- Quitt, E. (1971): Klimatické oblasti Československa. *Studia Geographica* 16. Geografický ústav ČSAV, Brno.
- Racine, J. B., Reymond, H. (1977): Analiza ilościowa w geografii. Państwowe Wydawnictwo Naukowe, Warszawa.
- Raghavan, U. N., Albert, R., Kumara, S. (2007): Near linear time algorithm to detect community structures in large-scale networks. *Physical Review E* 76 (3), 036106.
- Rand, W. M. (1971): Objective criteria for the evaluation of clustering methods. *Journal of the American Statistical association* 66 (336), 846–850.
- Rao, M. R. (1971): Cluster analysis and mathematical programming. *Journal of the American Statistical Association* 66 (335), 622–626.
- Raušer, J. (1969): Bioregiony Československa. *Studia Geographica* 1. Geografický ústav ČSAV, Brno, 99–105.
- Raušer, J. (1971): Biogeografické členění ČSR. Mapa 1 : 500 000. Geografický ústav ČSAV, Brno.
- Raušer, J., Zlatník, A. (1966): Biogeografie I. In: Atlas Československé socialistické republiky. Československá akademie věd – Ústřední správa geodézie a kartografie, Praha, mapový list 21.
- Ravenstein, E. G. (1885): The laws of migration. *Journal of Royal Statistical Society* 48 (2), 167–235.
- Řehák, S. (1987): Dojíždka do zaměstnání. In: Atlas obyvatelstva ČSSR. Geografický ústav ČSAV – Federální statistický úřad, Brno–Praha, mapový list III/1.
- Řehák, S. (2001): Nové kraje České republiky v kritickém mezinárodním srovnání. In: IV. mezinárodní kolokvium o regionálních vědách. Masarykova univerzita, Brno, 97–106.
- Řehák, S., Halás, M., Klapka, P. (2009): Několik poznámek k možnostem aplikace Reillyho modelu. *Geographia Moravica* 1. UP v Olomouci, Olomouc, 47–58.

- Reilly, W. J. (1929): Methods for the study of retail relationships. University of Texas Bulletin no. 2944. University of Texas, Austin.
- Reilly, W. J. (1931): The law of retail gravitation. Knickerbocker Press, New York.
- ReVelle, C. S., Swain, R. W. (1970): Central facilities location. *Geographical analysis* 2 (1), 30–42.
- Reynolds, R. B. (1956): Statistical methods in geographical research. *Geographical Review* 46 (1), 129–131.
- Richling, A. (1983): Subject of study in complex physical geography (Landscape geography). *GeoJournal* 7 (2), 185–187.
- Richling, A. (1992): *Kompleksowa geografia fizyczna*. Wydawnictwo naukowe PWN, Warszawa.
- Richling, A., Solon, J. (1996): *Ekologia krajobrazu*. Wydanie drugie zmienione i rozszerzone. Wydawnictwo naukowe PWN, Warszawa.
- Richter, R., Řehák, S. (1987): Automatizace ve tvorbě mapy dojíždky do zaměstnání. *Sborník Československé geografické společnosti* 92 (2), 81–88.
- Ripley, B. D. (1976): The second-order analysis of stationary point processes. *Journal of Applied Probability* 13 (2), 255–266.
- Robinson, G. M. (1998): *Methods and techniques in human geography*. John Wiley and Sons, Chichester.
- Robinson, G. W. S. (1953). The geographical region: form and function. *The Scottish Geographical Magazine* 69 (2), 49–58.
- Robinson, W. S. (1950): Ecological correlations and the behavior of individuals. *American Sociological Review* 15 (3), 351–357.
- Roca Cladera, J., Moix Bergadà, M. (2005): The interaction value: its scope and limits as an instrument for delimiting urban systems. *Regional Studies* 39 (3), 357–373.
- Rodoman, B. B. (1956): Sposoby individualnogo i tipologičeskogo rajonirovanija i ich izobraženije na karte. *Fiziko-geografičeskoe rajonirovanie. Voprosy geografii* 39 (6), 28–69.
- Rodoman, B. B. (1965): Logičeskije i kartografičeskije formy rajonirovanija i zadači ich izučenija. *Izvestija AN SSSR, serija geografičeskaja* 4. Moskva.
- Rodoman, B. B. (1968): Mathematical aspects of the formalization of regional geographic characteristics. *Geographia Polonica* 15, 37–57.

- Rohlf, F. J. (1974): Graphs implied by the Jardine-Sibson overlapping clustering methods, *Bk. Journal of the American Statistical Association* 69 (347), 705–710.
- Rohlf, F. J. (1975): A new approach to the computation of the Jardine-Sibson Bk clusters. *The Computer Journal* 18 (2), 164–168.
- Roleček, J., Tichý, L., Zelený, D., Chytrý, M. (2009): Modified TWINSpan classification in which the hierarchy respects cluster heterogeneity. *Journal of Vegetation Science* 20 (4), 596–602.
- Romportl, D., Chuman, T. (2012): Present approaches to landscape typology in the Czech Republic. *Journal of Landscape Ecology* 5 (3), 24–35.
- Romportl, D., Chuman, T., Lipský, Z. (2008): New method of landscape typology in the Czech Republic. *Problemy ekologii krajobrazu 20 – Klasifikacja krajobrazu – Teoria i praktyka*, 315–320.
- Romportl, D., Chuman, T., Lipský, Z. (2013): Typologie současné krajiny Česka. *Geografie* 118 (1), 16–39.
- Rosing, K. E. (1992): An optimal method for solving the (generalized) multi-Weber problem. *European Journal of Operational Research* 58 (3), 414–426.
- Rosing, K. E., Hillsman, E. L., Rosing-Vogelaar, H. (1979): The robustness of two common heuristics for the  $p$ -median problem. *Environment and Planning A* 11 (4), 373–380.
- Rosing, K. E., ReVelle, C. S. (1986): Optimal clustering. *Environment and Planning A* 18 (11), 1463–1476.
- Rosing, K. E., ReVelle, C. S. (1997): Heuristic concentration: two stage solution construction. *European Journal of Operational Research* 97 (1), 75–86.
- Rosing, K. E., ReVelle, C. S., Schilling, D. A. (1999): A gamma heuristic for the  $p$ -median problem. *European Journal of Operational Research* 117 (3), 522–532.
- Rosing, K. E., van Dijk, J. J. (1989): On the correct number of regions in regionalisation structures. *Environment and Planning B* 16 (4), 469–481.
- Rouget, B. (1972): Graph theory and hierarchisation models. *Regional and Urban Economics* 2 (3), 263–295.
- Rousseeuw, P. J. (1987): Silhouettes: a graphical aid to the interpretation and validation of cluster analysis. *Journal of Computational and Applied Mathematics* 20, 53–65.
- Rubin, J. (1967): Optimal classification into groups: an approach for solving the taxonomy problem. *Journal of Theoretical Biology* 15 (1), 103–144.

- Sammons, R. (1978): A simplistic approach to the redistricting problem. In: Masser, I., Brown, P. J. B. eds.: Spatial representation and spatial interaction. Studies in Applied Regional Science 10. Martinus Nijhoff, Leiden–Boston, 71–94.
- Sarzynska, M., Leicht, E. A., Chowell, G., Porter, M. A. (2016): Null models for community detection in spatially embedded, temporal networks. *Journal of Complex Networks* 4 (3), 363–406.
- Sauer, C. O. (1925): The morphology of landscape. University of California Publications in Geography 2 (2), 19–53.
- Sauer, C. O. (1927): Recent developments in cultural geography. In: Hayes, E. C. ed.: Recent developments in the social sciences. J. B. Lippincott Company, Philadelphia, 154–212.
- Saushkin, Y. G. (1961): On the Objective and the Subjective Character of Economic Regionalization: regarding the article by PM Alampiyev. *Soviet Geography* 2 (8), 75–81.
- Sauškin, J. G. (1958): Problemy ekonomiko-geografičeskogo rajonirovanija CCCR. *Vestnik Moskovskogo universiteta, serija biologičeskaja, počvovedčeskaja, geologičeskaja, geografičeskaja* 3, 3–14.
- Savage, I. R., Deutsch, K. W. (1960): A statistical model of the gross analysis of transaction flows. *Econometrica* 28 (3), 551–572.
- Schaefer, F. K. (1953): Exceptionalism in geography: a methodological examination. *Annals of the Association of American Geographers* 43 (3), 226–249.
- Schaeffer, S. E. (2007): Graph clustering. *Computer Science Review* 1 (1), 27–64.
- Schwanen, T., Kwan, M. P. (2009): “Doing” critical geographies with numbers. *The Professional Geographer* 61 (4), 459–464.
- Schwarz, G. (1978): Estimating the dimension of a model. *The Annals of Statistics* 6 (2), 461–464.
- Scott, A. J. (1970): Location-allocation systems: a review. *Geographical Analysis* 2 (2), 95–119.
- Scott, A. J., Symons, M. J. (1971): 297. Note: on the Edwards and Cavalli-Sforza method of cluster analysis. *Biometrics* 27 (1), 217–219.
- Ščukin, I. S. (1947): Nekotoryje mysli o suščnosti i metodike kompleksnogo fiziko-geografičeskogo rajonirovanija territorij. *Voprosy geografii* 3, 61–86.
- Semple, R. K., Casetti, E., King, L. J. (1969): The determination of the optimal number of groupings in classification problems. Discussion Paper 10. Department of Geography, The Ohio State University, Columbus.
- Sforzi, F. ed. (1997): *I sistemi locali del lavoro*. 1991. Istat, Roma.

- Sharir, M. (1981): A strong connectivity algorithm and its applications to data flow analysis. *Computers and Mathematics with Applications* 7 (1), 67–72.
- Sharma, S. S. (1996): *Applied multivariate techniques*. John Wiley and Sons, New York.
- Sheppard, E. (1995): Dissenting from spatial analysis. *Urban Geography* 16 (4), 283–303.
- Sheppard, E. (2001): Quantitative geography: representations, practices, and possibilities. *Environment and Planning D* 19 (5), 535–554.
- Shirabe, T. (2005): A model of contiguity for spatial unit allocation. *Geographical Analysis* 37 (1), 2–16.
- Shirabe, T. (2009): Districting modeling with exact contiguity constraints. *Environment and Planning B: Planning and Design* 36 (6), 1053–1066.
- Simini, F., González, M. C., Maritan, A., Barabási, A. L. (2012): A universal model for mobility and migration patterns. *Nature* 484 (7392), 96–100.
- Simini, F., Maritan, A., Nédá, Z. (2013): Human mobility in a continuum approach. *PloS One* 8 (3), e60069.
- Skokan, L. (1999): O geografické regionalizaci a „učení o zemích“ a regionech ve školské (ale nejen školské) geografii. In: Jeřábek, M., Peštová, J. eds.: *Regionalizace České republiky: Formování regionů, jejich funkce, význam pro začleňování do evropského prostoru*. Sborník referátů. UJEP, Ústí n. Labem, 24–35.
- Sládek, J. (1983): Životní jubileum dr. Miroslava Střídy, CSc. *Sborník Československé geografické společnosti* 88 (3), 246–249.
- Slater, P. B. (1975): A hierarchical regionalization of RSFSR administrative units using 1966–69 migration data. *Soviet Geography* 16 (7), 453–465.
- Slater, P. B. (1976a): A hierarchical regionalization of Japanese prefectures using 1972 interprefectural migration flows. *Regional Studies* 10 (1), 123–132.
- Slater, P. B. (1976b): A multiterminal network-flow analysis of an unadjusted Spanish interprovincial migration table. *Environment and Planning A* 8 (8), 875–878.
- Slater, P. B. (1977): Hierarchical regionalization by iterative proportional fitting procedures – reply. *IEEE Transactions on Systems: Man and Cybernetics* 7 (6), 477–478.
- Slater, P. B. (1981a): Combinatorial procedures for structuring internal migration and other transaction flows. *Quality & Quantity* 15 (2), 179–202.
- Slater, P. B. (1981b): Comparisons of aggregation procedures for interaction data: an illustration using a college student international flow table. *Socio-Economic Planning Sciences* 15 (1), 1–8.

- Slater, P. B. (1984): Measuring migration fields of US counties. *Geographical Analysis* 16 (1), 65–73.
- Slater, P. B. (1985): A cluster-analytic isolation criterion: an application to US Migration regions. *Quality & Quantity* 19 (2), 211–221.
- Slater, P. B., Wymer, R. C. (1987): Algorithm 13: strong component hierarchical clustering. *Environment and Planning A* 19 (1), 117–125.
- Smart, M. W. (1974): Labour market areas: uses and definition. *Progress in Planning* 2 (4), 239–353.
- Smith, R. H. T. (1970): Concepts and methods in commodity flow analysis. *Economic Geography* 46 (supplement 1), 404–416.
- Smutný, P. (1938): Regionální členění Československa (podle sdružených obvodů krajských soudů). In: Koláček, F., Krejčí, J., Semerád, A., Vitásek F. eds.: *Sborník IV. sjezdu československých geografů v Olomouci 1937*. Spisy odboru Československé společnosti zeměpisné, řada 7, Brno, 106–109.
- Sneath, P. H. (1995): Thirty years of numerical taxonomy. *Systematic Biology* 44 (3), 281–298.
- Sneath, P. H. A., Sokal, R. R. (1962): Numerical taxonomy. *Nature* 193, 855–860.
- Sneath, P. H. A., Sokal, R. R. (1973): Numerical taxonomy. The principles and practice of numerical classification. W. F. Freeman and company, San Francisco.
- Soja, E. W. (1968): Communications and territorial integration in East Africa: an introduction to transaction flow analysis. *East Lakes Geographer* 4, 39–59.
- Sokal, R. (1961): Distance as a measure of taxonomic similarity. *Systematic Zoology* 10 (2), 70–79.
- Sokal, R. R., Sneath, P. H. A. (1963): Principles of numerical taxonomy. W. F. Freeman and company, San Francisco.
- Solín, L. (1993): Hydrogeografické regionálne typy Slovenska z hľadiska priemernej ročnej odtokovej výšky. *Geografický časopis* 45 (2–3), 251–263.
- Solín, L. (2005): Identification of homogeneous regional classes for flood frequency analysis in the light of regional taxonomy / Identification de classes régionales homogènes pour l'analyse fréquentielle des crues à la lumière d'une taxinomie régionale. *Hydrological sciences journal* 50 (6), 1105–1118.
- Späth, H. (1980): Cluster analysis algorithms for data reduction and classification of objects. Ellis Horwood Publishers, Chichester.

- Spence, N. A. (1968): A multifactor uniform regionalization of British counties on the basis of employment data for 1961. *Regional Studies* 2 (1), 87–104.
- Spence, N. A., Taylor, P. J. (1970): Quantitative Methods in Regional Taxonomy. *Progress in Geography* 2, 1–64.
- Spurná, P. (2008): Prostorová autokorelace – všudypřítomný jev při analýze prostorových dat? *Sociologický časopis / Czech Sociological Review* 44 (4), 767–787.
- Stehlík, O. (1968): Kabinet pro geomorfologii ČSAV v letech 1952–1962. *Zprávy Geografického ústavu ČSAV* 1968 (2), 7–11.
- Stehlík, O. (1974): Potenciální eroze půdy proudící vodou na území ČSR. *Studia Geographica* 42. Geografický ústav ČSAV, Brno.
- Stěhule, J. (1925): Karel Kořistka. *Sborník Československé společnosti zeměpisné* 31 (1-2), 1–12.
- Steinley, D., Brusco, M. J. (2007): Initializing *k*-means batch clustering: A critical evaluation of several techniques. *Journal of Classification* 24 (1), 99–121.
- Stephenson, L. K. (1974): On functional regions and indirect flows. *Geographical Analysis* 6 (4), 383–385.
- Stevens, B. H., Brackett, C. A. (1968): Regionalization of Pennsylvania counties for development planning. *Geographia Polonica* 15, 153–188.
- Stewart, J. Q. (1948): Demographic gravitation: evidence and applications. *Sociometry* 11 (1–2), 31–58.
- Stimson, R. J. (2008): A personal perspective from being a student of the quantitative revolution. *Geographical Analysis* 40 (3), 222–225.
- Stoer, M., Wagner, F. (1997): A simple min-cut algorithm. *Journal of the ACM* 44 (4), 585–591.
- Stone, R. (1960): A comparison of the economic structure of regions based on the concept of distance. *Journal of Regional Science* 2 (2), 1–20.
- Střída, M. (1958): K metodice hospodářskogeografického členění ČSR. In: Hruška, E. ed.: *Hospodářskogeografické členění Československé republiky. Sborník I. konference hospodářské geografie v Liblicích 1956*. Praha, 32–51.
- Střída, M. (1960a): Hospodářské oblasti a nové územní rozdělení. *Politická ekonomie* 8 (6), 552–562.
- Střída, M. (1960b): Práce ČSAV k novému územnímu uspořádání Československa. *Věstník ČSAV* 69 (3), 552–562.

- Střída, M. (1960c): The application of economic geographical regions in the Czechoslovak republic. *Sborník Československé společnosti zeměpisné* 65 (3), 253–261.
- Střída, M. (1962): Průmyslová jádra. *Sborník Československé společnosti zeměpisné* 67 (2), 127–142.
- Střída, M. (1988): Geografická regionalizace na území Československa. *Sborník Československé geografické společnosti* 93 (4), 241–251.
- Střída, M., Stehlík, O. (1988): The traditions of the geographical research: 25 years of the Geographical institute of the Czechoslovak academy of sciences. *Sborník Československé geografické společnosti* 93 (2), 93–102.
- Sui, D. Z. (2004): Tobler's first law of geography: a big idea for a small world? *Annals of the Association of American Geographers* 94 (2), 269–277.
- Švampera, V., Kuchař, K. eds. (1936): *Sborník III. sjezdu československých geografů v Plzni 1935. Travaux géographiques tchèques*, Praha.
- Sýkora, L., Mulíček, O. (2009): The micro-regional nature of functional urban areas (FUAs): lessons from the analysis of Czech urban and regional system. *Urban Research and Practice* 2 (3), 287–307.
- Symanski, R., Newman, J. L. (1973): Formal, functional and nodal regions: three fallacies. *Professional Geographer* 25 (4), 350–352.
- Symons, M. J. (1981): Clustering criteria and multivariate normal mixtures. *Biometrics* 37 (1), 35–43.
- Tao, R., Thill, J.-C. (2016): Spatial cluster detection in spatial flow data. *Geographical Analysis* 48 (4), 355–372.
- Tarjan, R. E. (1972): Depth-first search and linear graph algorithms. *SIAM Journal on Computing* 1 (2), 146–160.
- Tarjan, R. E. (1982): A hierarchical clustering algorithm using strong components. *Information Processing Letters* 14 (1), 26–29.
- Tarjan, R. E. (1983): An improved algorithm for hierarchical clustering using strong components. *Information Processing Letters* 17 (1), 37–41.
- Tarsitano, A. (2003): A computational study of several relocation methods for *k*-means algorithms. *Pattern Recognition* 36 (12), 2955–2966.
- Taylor, P. J. (1969): The location variable in taxonomy. *Geographical Analysis* 1 (2), 181–195.
- Taylor, P. J. (1991): A theory and practice of regions: the case of Europe. *Environment and Planning D* 9 (2), 183–195.



- Teitz, M. B., Bart, P. (1968): Heuristic methods for estimating the generalized vertex median of a weighted graph. *Operations Research* 16 (5), 955–961.
- Terlouw, K. (2001): Regions in geography and the regional geography of semiperipheral development. *Tijdschrift voor Economische en Sociale Geografie* 92 (1), 76–87.
- Thrift, N. (2004): Intensities of feeling: towards a spatial politics of affect. *Geografiska Annaler B* 86 (1), 57–78.
- Thrift, N. J. (1983): On the determination of social action in space and time. *Environment and Planning D* 1 (1), 23–57.
- Thünen von, J. H. (1826): *Der isolirte Staat in Beziehung auf Landwirthschaft und Nationalökonomie (Oder Untersuchungen über den Einfluß, den die Getreidepreise, der Reichthum des Bodens und die Abgaben auf den Ackerbau ausüben)*. Perthes, Hamburg.
- Tibshirani, R., Walther, G., Hastie, T. (2001): Estimating the number of clusters in a data set via the gap statistic. *Journal of the Royal Statistical Society B* 63 (2), 411–423.
- Tiefelsdorf, M., Griffith, D. A., Boots, B. (1999): A variance-stabilizing coding scheme for spatial link matrices. *Environment and Planning A* 31 (1), 165–180.
- Timmermans, H., Arentze, T., Joh, C.-H. (2002): Analysing space-time behaviour: new approaches to old problems. *Progress in Human Geography* 26 (2), 175–190.
- Tinkler, K. J. (1976): On functional regions and indirect flows. *Geographical Analysis* 8 (2), 205–213.
- Tinkler, K. J. (1977): An introduction to graph theoretical methods in geography. CATMOG 14. GeoAbstracts, Norwich.
- Tinkler, K. J. (1979): Graph theory. *Progress in Human Geography* 3 (1), 85–116.
- Tobler, W. (1970): A computer movie simulating urban growth in the Detroit region. *Economic Geography*, 46, Supplement: Proceedings. International Geographical Union, Commission on quantitative methods, 234–240.
- Tobler, W. (1983): An alternative formulation for spatial-interaction modeling. *Environment and Planning A* 15 (5), 693–703.
- Tobler, W. (2004): On the first law of geography: a reply. *Annals of the Association of American Geographers* 94 (2), 304–310.
- Tobler, W. R. (1989): Frame independent spatial analysis. In: Goodchild, M., Gopal, S. eds.: *The Accuracy of Spatial Databases*. Taylor and Francis, London, 115–122.

- Tomáš, M., Klapka, P., Halás, M., Erlebach, M. (2016): Inner structure of functional regions: relationships between proto-centres. In: Klímová, V., Žítek, V. eds.: 19<sup>th</sup> International Colloquium on Regional Sciences. Conference Proceedings. Masarykova univerzita, Brno, 573–579.
- Tonev, P. (2013): Změny v dojížděcí za prací v období transformace: komparace lokálních trhů práce. Ms. disertační práce. Geografický ústav MU, Brno.
- Tonev, P., Halás, M., Klapka, P. (2018): Prostorová neurčitost funkčních regionů: porovnání pracovní dojížděky v letech 1991–2011. In: Klímová, V., Žítek, V. eds.: 21<sup>st</sup> International Colloquium on Regional Sciences. Conference Proceedings. Masarykova univerzita, Brno, 285–292.
- Tonev, P., Tomáš, M., Erlebach, M., Halás, M., Klapka, P. (2017): Prostorová neurčitost funkčních regionů: porovnání školské a pracovní dojížděky. In: Klímová, V., Žítek, V. eds.: 20<sup>th</sup> International Colloquium on Regional Sciences. Conference Proceedings. Masarykova univerzita, Brno, 342–348.
- Tong, D., Plane, D. A. (2014): A new spatial optimization perspective on the delineation of metropolitan and micropolitan statistical areas. *Geographical Analysis* 46 (3), 230–249.
- Toušek, V. (1985): Doc. RNDr. Miroslav Macka, CSc. (1924–1984). *Zprávy Geografického ústavu ČSAV* 22 (1), 41–52.
- Toušek, V., Fňukal, M. (2006): K úmrtí doc. RNDr. Stanislava Řeháka, CSc. *Geografie – Sborník České geografické společnosti* 111 (4), 456–459.
- Toušek, V., Viturka, M. (1979): Metoda faktorové analýzy a její aplikace ve výzkumu geografických struktur. *Zprávy Geografického ústavu ČSAV* 16 (5–6), 132–148.
- Tyree, A. (1973): Mobility ratios and association in mobility tables. *Population Studies* 27 (3), 577–588.
- Überla, K. (1974): Faktorová analýza. Alfa, Bratislava.
- Ullman, E. L. (1980): *Geography as spatial interaction*. University of Washington Press, Washington.
- Unstead, J. F. (1916): A synthetic method of determining geographical regions. *The Geographical Journal* 48 (3), 230–242.
- Unstead, J. F. (1933): A system of regional geography. *Geography* 18 (3), 175–187.
- Unstead, J. F., Myres, J. L., Roxby, P. M., Stamp, L. D. (1937): Classification of regions of the world: report of a Committee of the Geographical Association. *Geography* 22 (4), 253–282.

- Unwin, D. J. (1996): GIS, spatial analysis and spatial statistics. *Progress in Human Geography* 20 (4), 540–551.
- Urquhart, R. (1982): Graph theoretical clustering based on limited neighbourhood sets. *Pattern Recognition* 15 (3), 173–187.
- Van den Berg, L., Drewett, R., Klaasen, L. H., Rossi, A., Vijverberg, C. H. T. (1982): *A study of growth and decline. Urban Europe 1*. Pergamon Press, Oxford.
- Van Nuffel, N. (2007): Determination of the number of significant flows in origin-destination specific analysis: the case of commuting in Flanders. *Regional Studies* 41 (4), 509–524.
- Vašátko, J. (1985): RNDr. Jaroslav Raušer, CSc., šedesátiletý. *Sborník Československé geografické společnosti* 90 (4), 310–312.
- Vidal de la Blache, P. (1903): *Tableau de la géographie de la France*. Hachette, Paris.
- Vidal de la Blache, P. (1910): *Régions françaises*. *La Revue de Paris* 17 (6), 821–849.
- Vincent, G. (1927): Návrh rozdělení Československa na lesní produkční oblasti a přirozené krajiny. *Československý statistický věstník* 8 (7–8), 279–313.
- Vinod, H. D. (1969): Integer programming and the theory of grouping. *Journal of the American Statistical Association* 64 (326), 506–519.
- Vitásek, F. (1951): Václav Dědina překročil osmdesátý rok svého života. *Sborník Československé společnosti zeměpisné* 56, 7–14.
- Viturka, M. ed. (1992): *Atlas životního prostředí a zdraví obyvatelstva ČSFR*. Geografický ústav ČSAV – Federální výbor pro životní prostředí, Brno–Praha.
- Votrubec, C. et al. (1963): K problému hospodářsko-geografických středisek (střediska středních a severních Čech). *Rozpravy Československé akademie věd* 73 (3), řada společenských věd. NČSAV, Praha.
- Vystoupil, J., Mariot, P. (1987): *Cestovní ruch a rekreace*. In: *Atlas obyvatelstva ČSSR*. Geografický ústav ČSAV – Federální statistický úřad, Brno–Praha, mapový list V/4.
- Vystoupil, J., Viturka, M. (2011): Jubilant Jaroslav Maryáš. *Informace ČGS* 30 (1), 85–86.
- Vystoupil, J., Węclawowicz, G. (1987): Vnitřní struktura Katovic a Ostravy (srovnávací studie z faktorové ekologie). *Sborník ČGS* 92 (1), 1–18.
- Wang, W., Zhang, Y. (2007): On fuzzy cluster validity indices. *Fuzzy Sets and Systems* 158 (19), 2095–2117.
- Ward, J. H. (1963): Hierarchical grouping to optimize an objective function. *Journal of the American Statistical Association* 58 (301), 236–244.

- Watts, M. (2004): Local labour markets in New South Wales: fact or fiction? Centre of Full Employment and Equity, Working Paper 04-12. The University of Newcastle, Callaghan, Australia.
- Watts, M. (2009): Rules versus hierarchy: an application of fuzzy set theory to the assessment of spatial grouping techniques. In: Kolehmainen, M. et al. eds.: Adaptive and natural computing algorithms. Lecture notes in computer science 5495. Springer, Berlin-Heidelberg, 517-526.
- Watts, M. (2013): Assessing different spatial grouping algorithms: an application to the design of Australia's new statistical geography. *Spatial Economic Analysis* 8 (1), 92-112.
- Weaver, J. B., Hess, S. W. (1963): A procedure for nonpartisan districting: development of computer techniques. *The Yale Law Journal* 73 (2), 288-308.
- Weaver, J. C. (1954): Crop-combination regions in the Middle West. *Geographical Review* 44 (2), 175-200.
- Weber, A. (1909): Ueber den Standort der Industrien. Erster Teil. Reine Theorie des Standorts. Mit einem mathematischen Anhang von Georg Pick. Mohr (Paul Siebeck), Tübingen.
- Webster, R., Burrough, P. A. (1972): Computer-based soil mapping of small areas from sample data. *European Journal of Soil Science* 23 (2), 222-234.
- Whittlesey, D. (1954): The regional concept and the regional method. In: James, P. E., Jones, C. F. eds.: American geography: inventory and prospect. Syracuse University Press, Syracuse, New York, 19-69.
- Wijayanto, A. W., Purwarianti, A., Son, L. H. (2016): Fuzzy geographically weighted clustering using artificial bee colony: an efficient geo-demographic analysis algorithm and applications to the analysis of crime behavior in population. *Applied Intelligence* 44 (2), 377-398.
- Williams, J. C. (1995): Political redistricting: a review. *Papers in Regional Science* 74 (1), 13-40.
- Williams, J. C. (2002): A zero-one programming model for contiguous land acquisition. *Geographical Analysis* 34 (4), 330-349.
- Wilson, A. (1969): Notes on some concepts in social physics. *Regional Science* 22 (1), 159-193.
- Wilson, A. G. (1974): Urban and regional models in geography and planning. John Wiley and Sons, London.

- Wilson, J. P., Burrough, P. A. (1999): Dynamic modeling, geostatistics, and fuzzy classification: new sneakers for a new geography? *Annals of the Association of American Geographers* 89 (4), 736–746.
- Wise, S., Haining, R., Ma, J. (1997): Regionalisation tools for the exploratory spatial analysis of health data. In: Getis, A., Fischer, M. M. eds.: *Recent Developments in Spatial Analysis*. Springer, Heidelberg, 83–100.
- Wishart, D. (2004): Period and region. *Progress in Human Geography* 28 (3), 305–319.
- Wróbel, A. (1965): Pojęcie regionu ekonomicznego a teoria geografii. *Prace geograficzne* 48. Państwowe Wydawnictwo Naukowe, Warszawa.
- Wróbel, A. (1967): Pojęcie regionu a metoda regionalna. *Przegląd geograficzny* 39 (1), 73–84.
- Wu, X., Grubestic, T. H. (2010): Identifying irregularly shaped crime hot-spots using a multiobjective evolutionary algorithm. *Journal of Geographical Systems* 12 (4), 409–433.
- Wu, Z., Leahy, R. (1993): An optimal graph theoretic approach to data clustering: theory and its application to image segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 15 (11), 1101–1113.
- Wyly, E. (2009): Strategic positivism. *The Professional Geographer* 61 (3), 310–322.
- Wyly, E. (2014): The new quantitative revolution. *Dialogues in Human Geography* 4 (1), 26–38.
- Yang, M. S. (1993): A survey of fuzzy clustering. *Mathematical and Computer Modelling* 18 (11), 1–16.
- Yeates, M. (1963): Hinterland delimitation: a distance minimizing approach. *The Professional Geographer* 15 (6), 7–10.
- Yule, G. U., Kendall, M. G. (1950): *An introduction to the theory of statistics*. Griffin, London.
- Zadeh, L. A. (1965): Fuzzy sets. *Information and Control* 8 (3), 338–353.
- Zadeh, L. A. (1968): Fuzzy algorithms. *Information and Control* 12 (2), 94–102.
- Zadeh, L. A., Fu, K. S., Tanaka, K., Shimura, M. eds. (1975): *Fuzzy sets and their applications to cognitive and decision processes: Proceedings of the us-japan seminar on fuzzy sets and their applications, held at the university of California, Berkeley, California, July 1–4, 1974*. Academic Press, New York.
- Zahn, C. T. (1971): Graph-theoretical methods for detecting and describing gestalt clusters. *IEEE Transactions on computers* 100 (1), 68–86.

- Žalik, K. R. (2008): An efficient  $k'$ -means clustering algorithm. *Pattern Recognition Letters* 29 (9), 1385–1391.
- Zhang, S., Wong, H. S., Shen, Y. (2012): Generalized adjusted Rand indices for cluster ensembles. *Pattern Recognition* 45 (6), 2214–2226.
- Zhao, Q., Fränti, P. (2014): WB-index: a sum-of-squares based index for cluster validity. *Data & Knowledge Engineering* 92, 77–89.
- Zipf, G. K. (1949): *Human behavior and the principle of least effort*. Addison-Wesley Press, Cambridge, Mass.
- Zobler, L. (1957): Statistical testing of regional boundaries. *Annals of the Association of American Geographers* 47 (1), 83–95.
- Zobler, L. (1958): Decision making in regional construction. *Annals of the Association of American Geographers* 48 (2), 140–148.
- Zonneveld, I. S (1989): The land unit – a fundamental concept in landscape ecology and its applications. *Landscape Ecology* 3 (2), 67–86.
- Zonneveld, I. S. (1995): *Land ecology: an introduction to landscape ecology as a base for land evaluation, land management and conservation*. SPB Academic Publishing, Amsterdam.
- Zprávy Geografického ústavu ČSAV 1968 (2).
- Žůrek, O. (1955): K otázkám ekonomického rajónování ČSR. *Plánované hospodářství* 1955 (5), 356–365.