We have occasionally encountered informal statements claiming that, whereas multimodel inference is much used in wildlife and perhaps ecology (i.e., applications appear in journal papers), it is not used in other disciplines. This is demonstrable false, which can be attested to by looking at other journals. Model selection, model averaging, and use of multimodel inference concepts do appear widely in other journals on all types of subjects. Interest can be dated to the late 1970’s with a considerable increase in interest since about year 2000. We explored this issue (see below) by finding journals that have published at least one paper using, or about, multimodel inference. This was not a comprehensive effort – just evidence to reject the “not much used outside of wildlife” fallacy.

(K. P. Burnham and D. R. Anderson)

**Some journals that have published papers where multimodel inference has being used and/or studied.**

Analytical Chemistry
Journal of Productivity Analysis
Journal of Human Genetics
Journal of Applied Econometrics
Biochemistry
New England Journal of Medicine
The Annals of Statistics
British Journal of Mathematical and Statistical Psychology
Freshwater Science
PLOS ONE
Journal of Geophysical Research
Ecological Modelling
Medical Physics
Aquaculture
Environmental Modelling and Software
Ecology
Journal of Wildlife Management
Expert Systems with Applications
Science China – Mathematics
Journal of Business and Economic Statistics
Ocean Science
Advances in Atmospheric Sciences
Journal of Hydrometeorology
Risk Analysis
Econometrica
Journal of Climate
Journal of American Statistical Association
Statistics and Computing
Journal of Applied Sport Psychology
Environmental Science and Technology
IEICE Transactions on Fundamentals of Electronic Communications and Computer Sciences
American Journal of Physical Anthropology
Radiotherapy and Oncology
New Journal of Physics
Chemical Physics
Journal of Geriatric Oncology
Pattern Recognition Letters
Psychological Methods
Journal of Mathematical Psychology
Journal of Cardiac Failure
Journal of Clinical Periodontology
Applied Stochastic Models in Business and Industry
Statistics in Medicine
Biochemistry
Journal of Engineering Applications of Artificial Intelligence
Radiation and Environmental Biophysics
Journal of Occupational and Environmental Hygiene
PLOS – Neglected Tropical Diseases
Annals of Occupational Hygiene
Monthly Notices of the Royal Astronomical Society
American Physical Society
Annual Review of Nuclear and Particle Science
Annual Review of Nuclear and Particle Science: Letters
Molecular Biology and Evolution
Genetic Epidemiology
Psychonomic Bulletin and Review
Cognitive Radio Oriented Wireless Networks and Communications
Ground Water
Journal of Multivariate Analysis
Environmetrics
Journal of Political Economy
Crime Mapping: a Journal of Theory and Practice
The Annals of Applied Statistics
Systematic Biology
Forest Ecology and Management
Human Reproduction
Journal of Evolutionary Biology
Behavioral Ecology and Sociobiology
Sociological Methods and Research
Sociological Methodology
Time Series: Theory and Methods
Astronomy and Geophysics
Journal of Cosmology and Astroparticle Physics
Journal of Archaeological Science
Journal of Environmental Management
Also, there are several books devoted to the subject of model selection that include issues about multimodel inference. The essence of multimodel inference is also represented in methods such as ensembles, bagging (i.e., bootstrap aggregation), random forests, and boosting.

**Some example citations of relevance (a skeptic might actually look at these):**


Some titles that further illustrate the published scope of papers on multimodel inference (it is not being suggested that these should be looked at):


Barth, D., and V. Kapatsinski. 2014. A multimodel inference approach to categorical variant choice: construction, priming and frequency effects on the choice between full and contracted forms of am, are and is. Corpus Linquistics and Linquistic Theory. Published online 2014-10-07, DOI:10.1515/clit-2014-0022.


There are more, but this demonstrates that multimodel inference is used and explored in many journals.

(December 18, 2014, but with a few additions after then)
Some more published papers where multimodel inference has been studied and/or used.


Akaike, H. 1978. On the likelihood of a time series. The Statistician 27, 217-235. (it was in about 1978 that Akaike proposed the AIC based likelihood of a model, and then model averaging)


(A book; there are at least a dozen books on model selection. There is nothing in this one on multimodel inference.)


(K. P. Burnham and D. R. Anderson
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