Search terms used in Scopus to replicate our findings

Search terms to reconstruct Figure 1

Scopus search terms (January 12, 2016):

Total – the total articles published that year: DOCTYPE(ar) AND (PUBYEAR > 1989 AND PUBYEAR < 2016)

Bayes – Total articles mentioning Bayes over these years (no subjects or disciplines searched for): PUBYEAR > 1989 AND PUBYEAR < 2015 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar)

Medical / BiolChem / Business / STEM / SocialScience / MultiDis – total articles mentioning Bayes in each subdiscipline. See below table for guide to subdisciplines (as used in Scopus). Search Term of "Bayesian" variable with additions for subdisciplines.

PsychTotal – Total number of articles published in Psychology: PUBYEAR > 1989 AND PUBYEAR < 2015 AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"PSYC"))

PsychTotalBayes – Total number of articles published in Psychology metioning Bayes: PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"PSYC"))

PropTotBayes – proportion of "Bayes" to "Total"

PropPsychBayes – Proportion PsychTotalBayes to Psych Total

Subdiscplines defined by Scopus categorized by us in overarching fields.

	Scopus subdiscipline	Our field	Scopus Search
DENT	Dentistry	Medical Sciences	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"IMMU") OR LIMIT-TO(SUBJAREA,"DENT") OR LIMIT-TO(SUBJAREA,"HEAL") OR LIMIT-TO(SUBJAREA,"MEDI") OR LIMIT-TO(SUBJAREA,"VETE") OR LIMIT-TO(SUBJAREA,"PHAR") OR LIMIT-TO(SUBJAREA,"NEUR"))
HEAL	Health Professions		
IMMU	Immunology and Microbiology		
MEDI	Medicine		
VETE	Veterinary		
PHAR	Pharmacology, Toxicology and Pharmaceutics		
NEUR	Neuroscience		
CENG	Chemical Engineering	Other Biology and Chemistry	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"CENG") OR LIMIT-TO(SUBJAREA,"CHEM") OR LIMIT-TO(SUBJAREA,"BIOC") OR LIMIT-TO(SUBJAREA,"AGRI"))
CHEM	Chemistry		
BIOC	Biochemistry, Genetics and Molecular Biology		
AGRI	Agricultural and Biological Sciences		
BUSI	Business, Management and Accounting	Business	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"BUSI") OR
DECI	Decision Sciences		
ECON	Economics, Econometrics and Finance		

			LIMIT-TO(SUBJAREA,"DECI") OR LIMIT-TO(SUBJAREA,"ECON"))
ENVI	Environmental Science	STEM subjects	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"ENVI") OR LIMIT-TO(SUBJAREA,"EART") OR LIMIT-TO(SUBJAREA,"ENER") OR LIMIT-TO(SUBJAREA,"PHYS") OR LIMIT-TO(SUBJAREA,"COMP") OR LIMIT-TO(SUBJAREA,"MATH") OR LIMIT-TO(SUBJAREA,"MATE") OR LIMIT-TO(SUBJAREA,"ENGI"))
EART	Earth and Planetary Sciences		
ENER	Energy		
PHYS	Physics and Astronomy		
COMP	Computer Science		
MATH	Mathematics		
MATE	Materials Science		
ENGI	Engineering		
ARTS	Arts and Humanities	Social Sciences, Arts and Humanities	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"ARTS") OR LIMIT-TO(SUBJAREA,"PSYC") OR LIMIT-TO(SUBJAREA,"SOCI"))
PSYC	Psychology		
SOCI	Social Sciences		
MULT	Multidisciplinary	Multidiscplinary	PUBYEAR > 1989 AND PUBYEAR < 2016 AND TITLE-ABS-KEY("Bayesian") AND NOT TITLE-ABS-KEY("Bayesian Information Criterion") AND DOCTYPE(ar) AND (LIMIT-TO(SUBJAREA,"MULT"))

Search terms to reconstruct Search 1

On May 12, 2014 we executed the following search on Scopus:

```
(TITLE-ABS-KEY("Bayesian")
AND NOT TITLE-ABS-KEY("Bayesian Network")
AND NOT TITLE-ABS-KEY("Bayesian Information Criterion"))
AND DOCTYPE(ar)
AND SUBJAREA(MULT OR ARTS OR BUSI OR DECI OR ECON OR PSYC OR SOCI)
AND PUBYEAR > 1997 AND PUBYEAR < 2014
AND ( LIMIT-TO(SUBJAREA,"PSYC" ) )
```

This search resulted in 1,054 papers. During the screening phase it was decided that the original exclusion criteria for articles mentioning the term "Bayesian Network" used in the original search was inappropriate. A second search was conducted (date: March 10, 2015), this time for articles mentioning this term:

```
TITLE-ABS-KEY("Bayesian Network")
AND DOCTYPE(ar)
AND SUBJAREA(MULT OR ARTS OR BUSI OR DECI OR ECON OR PSYC OR SOCI)
AND PUBYEAR > 1997 AND PUBYEAR < 2014
AND ( LIMIT-TO(SUBJAREA,"PSYC" ) )
```

This search resulted in an additional 68 papers so that the total number of included papers was 1,122.

Search terms to reconstruct Search 2

During the review process it was decided to expand our search so that it would also include papers published in 2014. On July 30, 2015 we executed the following search to include 2014 papers (yield: 171):

```
(TITLE-ABS-KEY("Bayesian")
AND NOT TITLE-ABS-KEY("Bayesian Information Criterion"))
AND DOCTYPE(ar)
AND SUBJAREA(MULT OR ARTS OR BUSI OR DECI OR ECON OR PSYC OR SOCI)
AND PUBYEAR > 2013 AND PUBYEAR < 2015
AND ( LIMIT-TO(SUBJAREA,"PSYC" ) )
```

We also included articles published from 1990 to 1997 and 2015, and we also included extra search terms (final search executed on January 4, 2016; yielded another 376 extra articles)

Search for articles published between 1990 and 1998 with our original search terms (103 articles):

```
( TITLE-ABS-KEY ( "Bayesian" )
AND NOT  TITLE-ABS-KEY ( "Bayesian Information Criterion" ) )
AND  DOCTYPE ( ar )

AND  SUBJAREA ( mult  OR  arts  OR  busi  OR  deci  OR  econ  OR  psyc  OR  soci )  AND  PUBYEAR >  1989  AND  PUB
YEAR <  1998
AND  ( LIMIT-TO ( SUBJAREA ,  "PSYC" ) )
```

Search for article published in 2015 (yields 185 papers):

```
(TITLE-ABS-KEY("Bayesian")
AND NOT TITLE-ABS-KEY(bayesian information criterion))
AND DOCTYPE(ar)
AND SUBJAREA(MULT OR ARTS OR BUSI OR DECI OR ECON OR PSYC OR SOCI)
AND PUBYEAR = 2015
AND ( LIMIT-TO(SUBJAREA,"PSYC" ) )
```

Articles published between 1990-2015 with Gibbs sampler OR MCMC OR prior distribution OR posterior distribution in the title/abstract/keywords, AND NOT Bayesian, and at least psychology as a subject area (yields 88 articles):

```
( TITLE-ABS-KEY ( "Gibbs sampler" )
OR  TITLE-ABS-KEY ( "MCMC" )
OR  TITLE-ABS-KEY ( "prior distribution" )
OR  TITLE-ABS-KEY ( "posterior distribution" )
AND NOT  TITLE-ABS-KEY ( "Bayesian" )
AND NOT  TITLE-ABS-KEY ( "Bayesian Information Criterion" ) )
AND  DOCTYPE ( ar )
AND  SUBJAREA ( mult  OR  arts  OR  busi  OR  deci  OR  econ  OR  psyc  OR  soci )
AND  PUBYEAR >  1989  AND  PUBYEAR <  2016
AND  ( LIMIT-TO ( SUBJAREA ,  "PSYC" ) )
```

The following table shows how many papers we found with the extra search terms:

Term	N
MCMC	27
Prior distribution	19
Posterior distribution	37
Gibbs sampler	10
Total	93
Duplicates	5
Unique	88

Overview source articles per search

	N
Search 1	
Original	1054
Adding "Bayesian network"	68
Total	1122
Search 2	
2014	171
2015	185
1990-1997	103
Extra terms	88
Total	547