

Aportaciones al conocimiento de la colaboración internacional en Humanidades Digitales, según SCOPUS; un estudio de *Science Mapping Analysis*.

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En el congreso *Digital Humanities* celebrado en junio de 2018 en México (DH2018), se aportó una contribución al debate sobre los desequilibrios culturales, políticos, lingüísticos y de género en las Humanidades Digitales (Dacos, 2016; Fiormonte 2017b; Grandjean, 2014; Weingart 2014; Weingart and Eichmann-Kalwara 2017) mediante el análisis de las comunicaciones del congreso DH2017 de Montreal¹ (Pino y Fiormonte, 2018). Continuando con el mismo enfoque geopolítico sobre las Humanidades Digitales (Adriansen, 2016 y 2017; Canagarajah, 2002; de Sousa Santos 2010; Graham et al. 2011; Fiormonte 2017a; Mignolo 2011), se presenta una aportación al conocimiento de la colaboración internacional (González Alcaide y Gómez Ferri 2014) en Humanidades Digitales entre países, tomando como corpus de estudio los artículos y las revisiones indexados en Scopus² (ver Tablas 1 y 2) y empleando las herramientas Bibliometrix (Aria y Cuccurullo, 2017), para realizar el *Science Mapping Analysis*³, y Vosviewer (Van Eck y Waltman, 2010, 2011 y 2014; Waltman, Van Eck y Noyons 2010), para visualizar la red de colaboración.

Tabla 1: Información sobre el corpus de documentos recuperado de Scopus mediante la búsqueda: (TITLE-ABS-KEY ("digital humanities") OR TITLE-ABS-KEY ("humanities computing") OR TITLE-ABS-KEY ("humanidades digitales") OR TITLE-ABS-KEY ("informática humanística") OR TITLE-ABS-KEY ("humanités numériques") OR TITLE-ABS-KEY ("informatica umanistica") OR TITLE-ABS-KEY ("digitale geisteswissenschaften")) AND (LIMIT-TO (DOCTYPE , "ar") OR LIMIT-TO (DOCTYPE , "re")). Tabla obtenida con Bibliometrix.

| Main Information about data | |
|--------------------------------------|-------------|
| Documents | 992 |
| Sources (Journals, Books, etc.) | 506 |
| Keywords Plus (ID) | 1414 |
| Author's Keywords (DE) | 2264 |
| Period | 1968 - 2018 |
| Average citations per documents | 4.443 |
| Authors | 1752 |
| Author Appearances | 1966 |
| Authors of single authored documents | 474 |
| Authors of multi authored documents | 1278 |
| Documents per Author | 0.566 |
| Authors per Document | 1.77 |
| Co-Authors per Documents | 1.98 |
| Collaboration Index | 3.08 |

¹ <https://dh2017.adho.org/program/abstracts/>

² Búsqueda en Scopus: (TITLE-ABS-KEY ("digital humanities") OR TITLE-ABS-KEY ("humanities computing") OR TITLE-ABS-KEY ("humanidades digitales") OR TITLE-ABS-KEY ("informática humanística") OR TITLE-ABS-KEY ("humanités numériques") OR TITLE-ABS-KEY ("informatica umanistica") OR TITLE-ABS-KEY ("digitale geisteswissenschaften")) AND (LIMIT-TO (DOCTYPE , "ar") OR LIMIT-TO (DOCTYPE , "re"))

³ http://bibliometrix.org/documents/bibliometrix_Report.html

Tabla 2: Listado de las revistas con mayor número de referencias recuperadas de Scopus mediante la búsqueda: (TITLE-ABS-KEY ("digital humanities") OR TITLE-ABS-KEY ("humanities computing") OR TITLE-ABS-KEY ("humanidades digitales") OR TITLE-ABS-KEY ("informática humanística") OR TITLE-ABS-KEY ("humanités numériques") OR TITLE-ABS-KEY ("informatica umanistica") OR TITLE-ABS-KEY ("digitale geisteswissenschaften")) AND (LIMIT-TO (DOCTYPE , "ar") OR LIMIT-TO (DOCTYPE , "re")). Tabla obtenida con Bibliometrix.

| Most Relevant Sources | | Sources | Articles |
|-----------------------|--|---------|----------|
| 1 | LITERARY AND LINGUISTIC COMPUTING | | 52 |
| 2 | DIGITAL SCHOLARSHIP IN THE HUMANITIES | | 36 |
| 3 | COLLEGE AND UNDERGRADUATE LIBRARIES | | 27 |
| 4 | COMPUTERS AND THE HUMANITIES | | 18 |
| 5 | HISTORICAL SOCIAL RESEARCH | | 15 |
| 6 | JOURNAL OF LIBRARY ADMINISTRATION | | 10 |
| 7 | ARTS AND HUMANITIES IN HIGHER EDUCATION | | 9 |
| 8 | JOURNAL OF DOCUMENTATION | | 9 |
| 9 | LANGUAGE RESOURCES AND EVALUATION | | 9 |
| 10 | HUMAN IT | | 8 |
| 11 | INTERDISCIPLINARY SCIENCE REVIEWS | | 8 |
| 12 | JOURNAL OF SPORT HISTORY | | 8 |
| 13 | PROFESIONAL DE LA INFORMACION | | 8 |
| 14 | VISUAL RESOURCES | | 8 |
| 15 | CEA CRITIC | | 7 |
| 16 | DIFFERENCES | | 7 |
| 17 | FIRST MONDAY | | 7 |
| 18 | SIGNA | | 7 |
| 19 | BIDRAGEN EN MEDEDELINGEN BETREFFENDE DE GESCHIEDENIS DER NEDERLANDEN | | 6 |
| 20 | CLCWEB - COMPARATIVE LITERATURE AND CULTURE | | 6 |
| 21 | INFORMATION-WISSENSCHAFT UND PRAXIS | | 6 |
| 22 | JOURNAL OF MAP AND GEOGRAPHY LIBRARIES | | 6 |
| 23 | JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY | | 6 |
| 24 | MEDIEVALES | | 6 |
| 25 | PROCEEDINGS OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY | | 6 |
| 26 | TEKSTY DRUGIE | | 6 |
| 27 | DIGITAL LIBRARY PERSPECTIVES | | 5 |
| 28 | LIBRARY HI TECH | | 5 |
| 29 | LILI - ZEITSCHRIFT FUR LITERATURWISSENSCHAFT UND LINGUISTIK | | 5 |
| 30 | ORAL HISTORY REVIEW | | 5 |
| 31 | PMLA | | 5 |
| 32 | PORTAL | | 5 |
| 33 | REVISTA TRANSILVANIA | | 5 |
| 34 | SERIALS LIBRARIAN | | 5 |
| 35 | AMERICAN ARCHIVIST | | 4 |
| 36 | ARTI MUSICES | | 4 |
| 37 | ASLIB PROCEEDINGS: NEW INFORMATION PERSPECTIVES | | 4 |
| 38 | COLLEGE AND RESEARCH LIBRARIES NEWS | | 4 |
| 39 | COLLEGE ENGLISH | | 4 |
| 40 | D-LIB MAGAZINE | | 4 |
| 41 | IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS | | 4 |
| 42 | INTERNATIONAL JOURNAL OF THE BOOK | | 4 |
| 43 | INTERNATIONAL JOURNAL ON DIGITAL LIBRARIES | | 4 |
| 44 | JOURNAL OF MODERN PERIODICAL STUDIES | | 4 |
| 45 | LECTURE NOTES IN COMPUTER SCIENCE (INCLUDING SUBSERIES LECTURE NOTES IN ARTIFICIAL INTELLIGENCE AND LECTURE NOTES IN BIOINFORMATICS) | | 4 |
| 46 | MAGNIFICAT CULTURA I LITERATURA MEDIEVALS | | 4 |
| 47 | RELIGION | | 4 |
| 48 | SCIENTOMETRICS | | 4 |
| 49 | SEMANTIC WEB | | 4 |

Tanto los resultados de producción de artículos por países (ver Figura 1), como el total de citaciones a los mismos (ver Tabla 3), así como el *Overall Ranking* (ver Tabla 4) y las medidas de centralidad y de prestigio (ver Anexo: *Main measures of degree centrality, closeness centrality, eigenvector centrality, betweenness centrality, pagerank score, hub score y authority score*) de la red internacional de colaboración (ver Figura 2) apuntan, tal como señalaba el estudio de las comunicaciones al Congreso ADHO DH2017-Montreal, a la hegemonía del Norte global, y sobre todo de los países anglosajones, en la comunidad internacional. Esta dominancia, muy evidente en la producción científica, así como en el total de citaciones, se mantiene y se visualiza en la red de colaboración y en el *historygraph* de la red histórica de citación (ver Figura 3 y Tabla 5).

Figura 1: Producción por países (SCP: Single Country Publications y MCP: Multiple Country Publications); Gráfica obtenida con Bibliometrix.

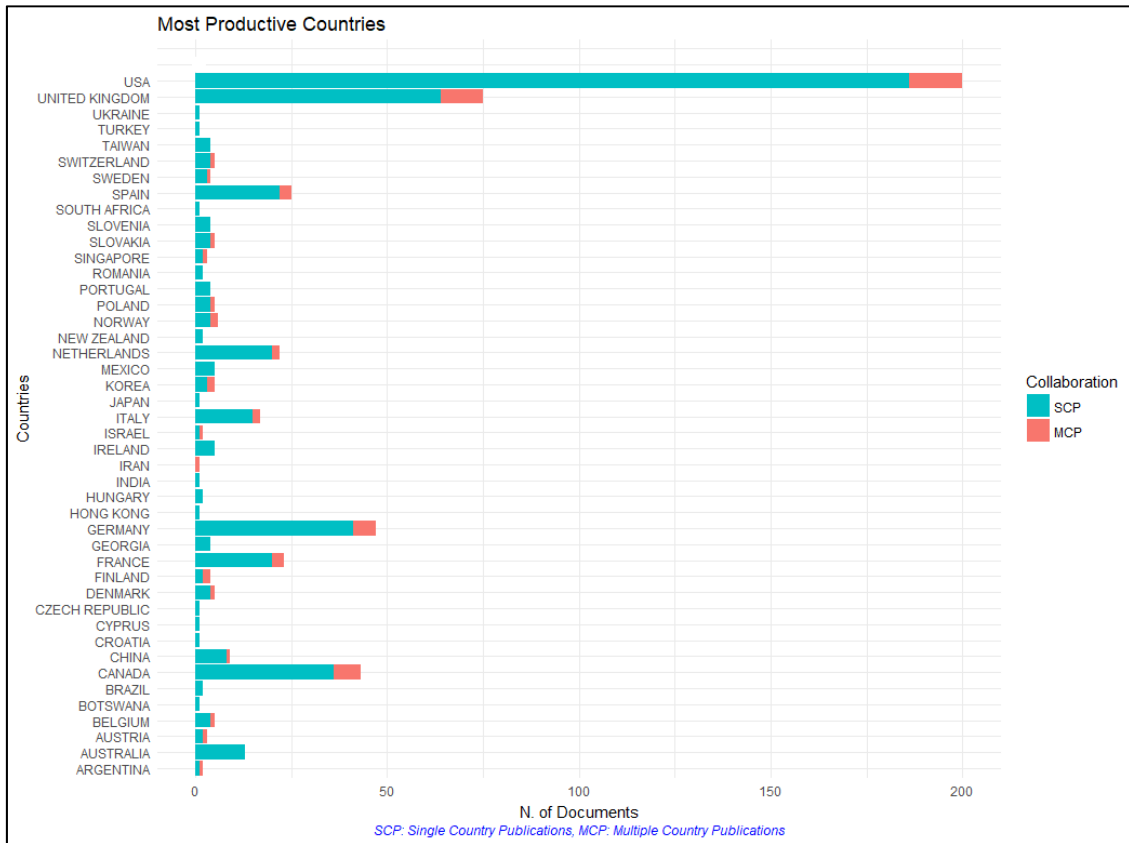


Tabla 3: Total de citas por país. Tabla obtenida con Bibliometrix.

| Country | Total Citations | Average Article Citations |
|-------------------|-----------------|---------------------------|
| 1 USA | 1348 | 6.74 |
| 2 UNITED KINGDOM | 789 | 10.52 |
| 3 CANADA | 247 | 5.74 |
| 4 NETHERLANDS | 236 | 10.73 |
| 5 ITALY | 189 | 11.12 |
| 6 GERMANY | 129 | 2.74 |
| 7 AUSTRALIA | 113 | 8.69 |
| 8 CHINA | 72 | 8.00 |
| 9 IRAN | 68 | 68.00 |
| 10 SPAIN | 52 | 2.08 |
| 11 DENMARK | 51 | 10.20 |
| 12 GEORGIA | 40 | 10.00 |
| 13 TURKEY | 36 | 36.00 |
| 14 NORWAY | 35 | 5.83 |
| 15 FRANCE | 23 | 1.00 |
| 16 UKRAINE | 21 | 21.00 |
| 17 POLAND | 20 | 4.00 |
| 18 SWEDEN | 16 | 4.00 |
| 19 BELGIUM | 15 | 3.00 |
| 20 IRELAND | 15 | 3.00 |
| 21 BOTSWANA | 13 | 13.00 |
| 22 SINGAPORE | 11 | 3.67 |
| 23 JAPAN | 10 | 10.00 |
| 24 SLOVAKIA | 10 | 2.00 |
| 25 HUNGARY | 7 | 3.50 |
| 26 MEXICO | 7 | 1.40 |
| 27 TAIWAN | 4 | 1.00 |
| 28 HONG KONG | 2 | 2.00 |
| 29 KOREA | 2 | 0.40 |
| 30 ROMANIA | 2 | 1.00 |
| 31 SWITZERLAND | 2 | 0.40 |
| 32 CZECH REPUBLIC | 1 | 1.00 |
| 33 FINLAND | 1 | 0.25 |
| 34 ISRAEL | 1 | 0.50 |
| 35 NEW ZEALAND | 1 | 0.50 |
| 36 SLOVENIA | 1 | 0.25 |
| 37 ARGENTINA | 0 | 0.00 |
| 38 AUSTRIA | 0 | 0.00 |
| 39 BRAZIL | 0 | 0.00 |
| 40 CROATIA | 0 | 0.00 |
| 41 CYPRUS | 0 | 0.00 |
| 42 INDIA | 0 | 0.00 |
| 43 PORTUGAL | 0 | 0.00 |
| 44 SOUTH AFRICA | 0 | 0.00 |

Tabla 4: Ranking General de 50 países de la red de colaboración. Tabla resumen obtenida con Bibliometrix sobre los valores de degree centrality, closeness centrality, eigenvector centrality, betweenness centrality, pagerank score, hub score y authority score.

| Overall Ranking: Top vertices | | |
|-------------------------------|----------------|-----------------|
| Vertex ID | | Overall Ranking |
| 1 | USA | 1.0 |
| 2 | UNITED KINGDOM | 2.0 |
| 3 | GERMANY | 3.0 |
| 4 | BELGIUM | 4.0 |
| 5 | SPAIN | 5.0 |
| 6 | CANADA | 6.0 |
| 7 | NETHERLANDS | 7.0 |
| 8 | SWEDEN | 8.0 |
| 9 | ITALY | 9.0 |
| 10 | FRANCE | 10.0 |
| 11 | IRELAND | 11.0 |
| 12 | AUSTRIA | 12.0 |
| 13 | KOREA | 13.0 |
| 14 | DENMARK | 14.0 |
| 15 | AUSTRALIA | 15.0 |
| 16 | GREECE | 16.0 |
| 17 | NORWAY | 17.0 |
| 18 | CHINA | 18.0 |
| 19 | ISRAEL | 19.0 |
| 20 | SWITZERLAND | 20.0 |
| 21 | POLAND | 21.0 |
| 22 | SINGAPORE | 22.0 |
| 23 | INDIA | 23.0 |
| 24 | BRAZIL | 24.0 |
| 25 | FINLAND | 25.0 |
| 26 | MALTA | 26.5 |
| 27 | IRAN | 26.5 |
| 28 | ARGENTINA | 28.0 |
| 29 | KAZAKHSTAN | 29.0 |
| 30 | BULGARIA | 30.0 |
| 31 | INDONESIA | 31.0 |
| 32 | SLOVAKIA | 32.0 |
| 33 | TAIWAN | 42.5 |
| 34 | CZECH REPUBLIC | 42.5 |
| 35 | PORTUGAL | 42.5 |
| 36 | HUNGARY | 42.5 |
| 37 | MEXICO | 42.5 |
| 38 | CROATIA | 42.5 |
| 39 | ROMANIA | 42.5 |
| 40 | ESTONIA | 42.5 |
| 41 | CHILE | 42.5 |
| 42 | HONG KONG | 42.5 |
| 43 | NEW ZEALAND | 42.5 |
| 44 | SLOVENIA | 42.5 |
| 45 | SOUTH AFRICA | 42.5 |
| 46 | COLOMBIA | 42.5 |
| 47 | JAPAN | 42.5 |
| 48 | CYPRUS | 42.5 |
| 49 | LUXEMBOURG | 42.5 |
| 50 | TURKEY | 42.5 |

Figura 2: Red de colaboración entre países realizado con Bibliometrix y Vosviewer. Sólo aparecen los nodos conectados (modo de visualización: scale x1; pesos= "links" y tamaño de nodos y etiquetas x0,8).

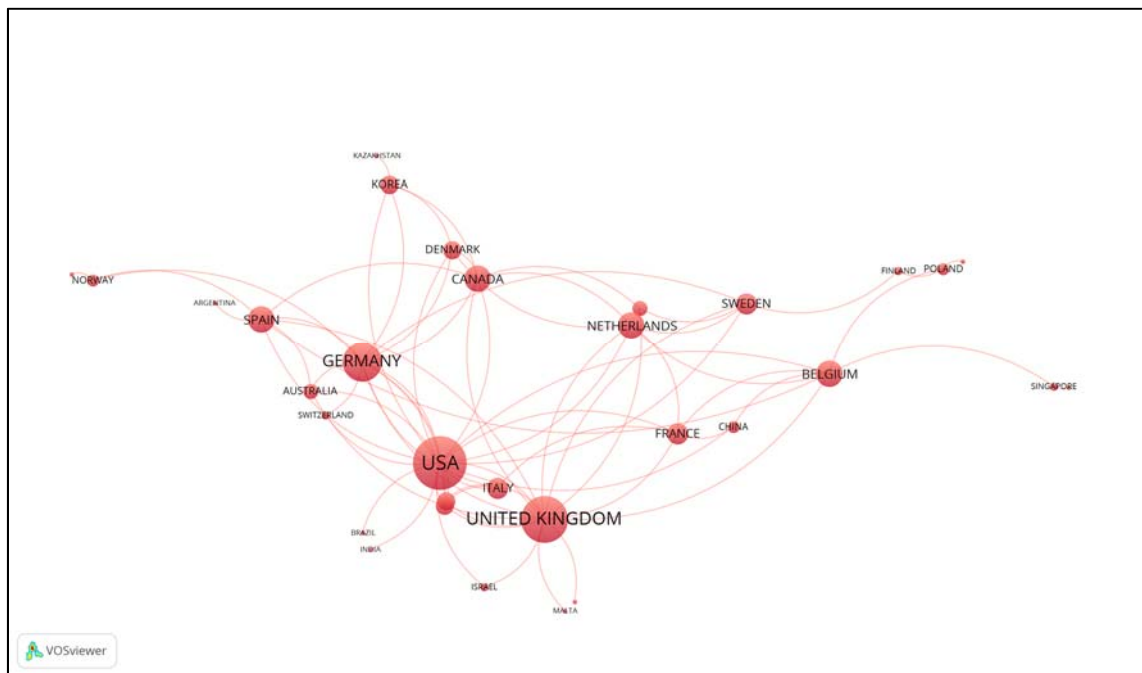


Figura 3: Historygraph de la red histórica de citación (realizado a partir de las referencias con un mínimo de 2 citaciones en el corpus de estudio); obtenido con Bibliometrix.

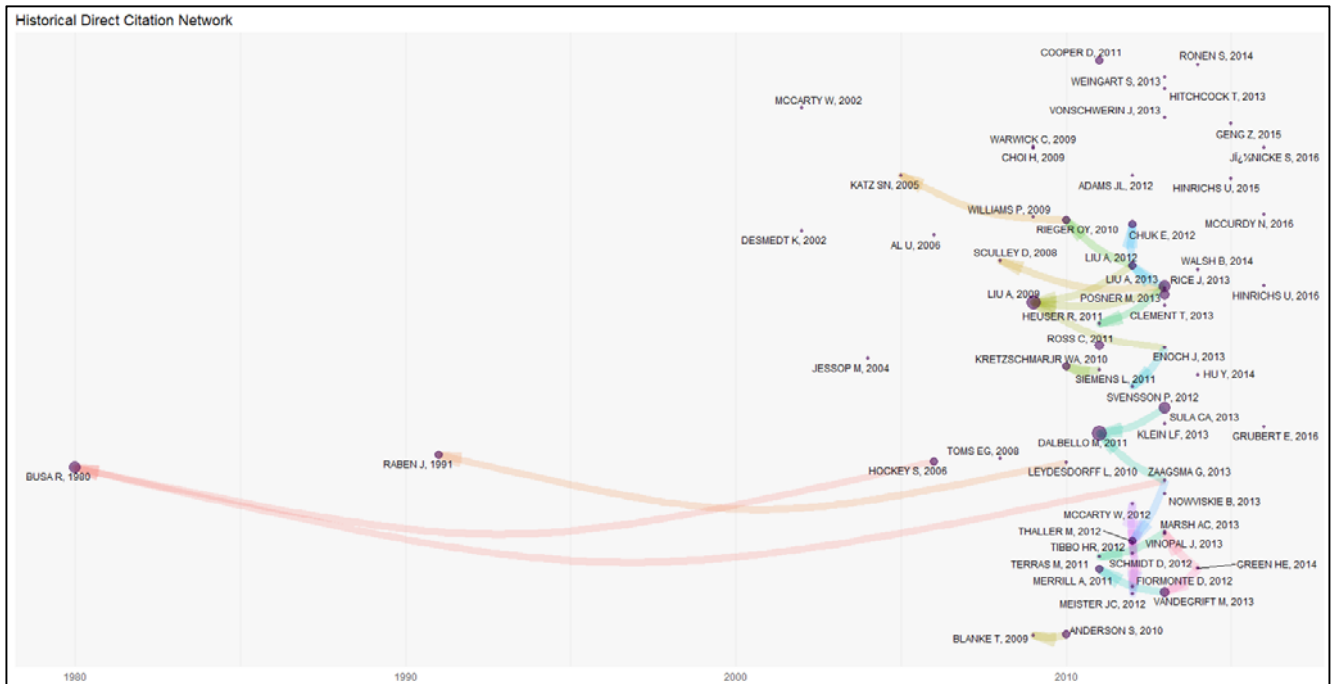


Tabla 5: Leyenda del historygraph de la red histórica de citación (realizado a partir de las referencias con un mínimo de 2 citaciones en el corpus de estudio). Tabla obtenida con Bibliometrix.

| Legend | | Paper | DOI | Year | LCS | GCS |
|------------|--|--|----------------------------------|------|-----|-----|
| 1980 - 3 | | BUSA R, 1980, COMPUT HUM | 10.1007/BF02403798 | 1980 | 4 | 41 |
| 1991 - 7 | | RABEN J, 1991, COMPUT HUM | 10.1007/BF00141184 | 1991 | 2 | 10 |
| 2002 - 30 | | DESMEDT K, 2002, LIT LINGUIST COMPUT | 10.1093/LLC/17.1.89 | 2002 | 1 | 11 |
| 2002 - 31 | | MCCARTY W, 2002, LIT LINGUIST COMPUT | 10.1093/LLC/17.1.103 | 2002 | 1 | 13 |
| 2004 - 41 | | JESSOP M, 2004, LIT LINGUIST COMPUT | 10.1093/LLC/19.3.335 | 2004 | 1 | 7 |
| 2005 - 51 | | KATZ SN, 2005, INTERDISCIP SCI REV | 10.1179/030801805X25909 | 2005 | 1 | 5 |
| 2006 - 60 | | HOCKEY S, 2006, ASLIB PROC NEW INF PERSPECT | 10.1108/00012530610648699 | 2006 | 2 | 4 |
| 2006 - 63 | | AL U, 2006, J AM SOC INF SCI TECHNOL | 10.1002/ASI.20366 | 2006 | 1 | 36 |
| 2008 - 76 | | SCULLEY D, 2008, LIT LINGUIST COMPUT | 10.1093/LLC/FQN019 | 2008 | 1 | 21 |
| 2008 - 78 | | TOMS EG, 2008, J DOC | 10.1108/00220410810844178 | 2008 | 1 | 34 |
| 2009 - 83 | | BLANKE T, 2009, FUTURE GENER COMPUT SYST | 10.1016/J.FUTURE.2008.10.004 | 2009 | 1 | 14 |
| 2009 - 84 | | LIU A, 2009, ENGL LANG NOTES | <NA> | 2009 | 6 | 17 |
| 2009 - 85 | | WARWICK C, 2009, J DOC | 10.1108/00220410910926112 | 2009 | 1 | 4 |
| 2009 - 86 | | WILLIAMS P, 2009, ASLIB PROC NEW INF PERSPECT | 10.1108/00012530910932294 | 2009 | 1 | 31 |
| 2009 - 87 | | CHOI H, 2009, ARTS EDUC POLICY REV | 10.3200/AEPR.110.3.27-34 | 2009 | 1 | 10 |
| 2010 - 88 | | KRETZSCHMARJR WA, 2010, LIT LINGUIST COMPUT | 10.1093/LLC/FQQ022 | 2010 | 2 | 18 |
| 2010 - 91 | | ANDERSON S, 2010, PHILOS TRANS R SOC A MATH PHYS ENG SCI | 10.1098/RSTA.2010.0156 | 2010 | 2 | 13 |
| 2010 - 96 | | LEYDESORFF L, 2010, J AM SOC INF SCI TECHNOL | 10.1002/ASI.21303 | 2010 | 1 | 21 |
| 2010 - 100 | | RIEGER OY, 2010, FIRST MONDAY | 10.5210/FM.V15I10.3198 | 2010 | 2 | 12 |
| 2011 - 103 | | HEUSER R, 2011, VIC STUD | 10.2979/VICTORIANSTUDIES.54.1.79 | 2011 | 1 | 7 |
| 2011 - 108 | | TERRAS M, 2011, LIT LINGUIST COMPUT | 10.1093/LLC/FQR016 | 2011 | 1 | 4 |
| 2011 - 110 | | SIEMENS L, 2011, LIT LINGUIST COMPUT | 10.1093/LLC/FQR028 | 2011 | 1 | 17 |
| 2011 - 114 | | DALBELLO M, 2011, J DOC | 10.1108/00220411111124550 | 2011 | 7 | 28 |
| 2011 - 115 | | ROSS C, 2011, J DOC | 10.1108/00220411111109449 | 2011 | 3 | 100 |
| 2011 - 117 | | MERRILL A, 2011, PUBLIC SERV Q | 10.1080/15228959.2011.623598 | 2011 | 2 | 5 |
| 2011 - 119 | | COOPER D, 2011, TRANS INST BR GEOGR | 10.1111/J.1475-5661.2010.00405.X | 2011 | 2 | 50 |
| 2012 - 128 | | SVENSSON P, 2012, ARTS HUMANIT HIGH EDUC | 10.1177/1474022211427367 | 2012 | 1 | 11 |
| 2012 - 130 | | LIU A, 2012, ARTS HUMANIT HIGH EDUC | 10.1177/1474022211427364 | 2012 | 2 | 32 |
| 2012 - 131 | | CHUK E, 2012, ARTS HUMANIT HIGH EDUC | 10.1177/1474022211426906 | 2012 | 2 | 5 |
| 2012 - 134 | | ADAMS JL, 2012, COLL RES LIBR NEWS | 10.5860/CRLN.73.9.8831 | 2012 | 1 | 8 |
| 2012 - 136 | | THALLER M, 2012, HIST SOC RES | <NA> | 2012 | 2 | 16 |
| 2012 - 138 | | MEISTER JC, 2012, HIST SOC RES | <NA> | 2012 | 1 | 4 |
| 2012 - 140 | | MCCARTY W, 2012, HIST SOC RES | <NA> | 2012 | 1 | 6 |
| 2012 - 141 | | TIBBO HR, 2012, HIST SOC RES | <NA> | 2012 | 1 | 4 |
| 2012 - 143 | | SCHMIDT D, 2012, HIST SOC RES | <NA> | 2012 | 1 | 12 |
| 2012 - 144 | | FIORMONTE D, 2012, HIST SOC RES | <NA> | 2012 | 1 | 14 |
| 2012 - 149 | | KLEIN LF, 2013, AM LIT | 10.1215/00029831-2367310 | 2013 | 1 | 15 |
| 2013 - 153 | | VONSCHWERIN J, 2013, LIT LINGUIST COMPUT | 10.1093/LLC/FQT059 | 2013 | 1 | 20 |
| 2013 - 164 | | WEINGART S, 2013, LIT LINGUIST COMPUT | 10.1093/LLC/FQS015 | 2013 | 1 | 6 |
| 2013 - 169 | | ENOCH J, 2013, COLL COMPOS COMMUN | <NA> | 2013 | 1 | 5 |
| 2013 - 172 | | MARSH AC, 2013, LIT LINGUIST COMPUT | 10.1093/LLC/FQS068 | 2013 | 1 | 4 |
| 2013 - 173 | | CLEMENT T, 2013, LIBR Q | 10.1086/669550 | 2013 | 1 | 21 |
| 2013 - 175 | | LIU A, 2013, PMLA | 10.1632/PMLA.2013.128.2.409 | 2013 | 4 | 42 |
| 2013 - 176 | | RICE J, 2013, COLL ENGL | <NA> | 2013 | 1 | 3 |
| 2013 - 178 | | HITCHCOCK T, 2013, CULT SOC HIST | 10.2752/147800413X13515292098070 | 2013 | 1 | 25 |
| 2013 - 181 | | POSNER M, 2013, J LIBR ADM | 10.1080/01930826.2013.756694 | 2013 | 3 | 51 |
| 2013 - 182 | | SULA CA, 2013, J LIBR ADM | 10.1080/01930826.2013.756680 | 2013 | 4 | 37 |
| 2013 - 183 | | VANDEGRIFT M, 2013, J LIBR ADM | 10.1080/01930826.2013.756699 | 2013 | 3 | 40 |
| 2013 - 184 | | NOWVSKIE B, 2013, J LIBR ADM | 10.1080/01930826.2013.756698 | 2013 | 1 | 17 |
| 2013 - 190 | | ZAAGSMA G, 2013, BIJDR MEDED BETREFFENDE GESCHIED NED | 10.18352/BMGN-LCHR.9344 | 2013 | 1 | 13 |
| 2013 - 192 | | VINOPAL J, 2013, J LIBR ADM | 10.1080/01930826.2013.756689 | 2013 | 1 | 39 |
| 2014 - 196 | | RONEN S, 2014, PROC NATL ACAD SCI U S A | 10.1073/PNAS.1410931111 | 2014 | 1 | 35 |
| 2014 - 210 | | GREEN HE, 2014, LIBR Q | 10.1086/675332 | 2014 | 1 | 19 |
| 2014 - 218 | | HU Y, 2014, MACH LEARN | 10.1007/s10994-013-5413-0 | 2014 | 1 | 54 |
| 2014 - 228 | | WALSH B, 2014, LIT LINGUIST COMPUT | 10.1093/LLC/FQU030 | 2014 | 1 | 6 |
| 2015 - 234 | | HINRICHS U, 2015, DIG SCHOLARSH HUMANIT | 10.1093/LLC/FQV046 | 2015 | 1 | 8 |
| 2015 - 235 | | GENG Z, 2015, INF VISUALIZATION | 10.1177/1473871613495845 | 2015 | 1 | 3 |
| 2016 - 271 | | GRUBERT E, 2016, ENVIRON RES LETT | 10.1088/1748-9326/11/9/093001 | 2016 | 1 | 4 |
| 2016 - 280 | | HINRICHS U, 2016, IEEE TRANS VISUAL COMPUT GRAPHICS | 10.1109/TVCG.2015.2467452 | 2016 | 1 | 10 |
| 2016 - 281 | | JÄNICKE S, 2016, IEEE TRANS VISUAL COMPUT GRAPHICS | 10.1109/TVCG.2015.2467620 | 2016 | 1 | 4 |
| 2016 - 282 | | MCCURDY N, 2016, IEEE TRANS VISUAL COMPUT GRAPHICS | 10.1109/TVCG.2015.2467811 | 2016 | 1 | 11 |

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Anexo:

Principales medidas de centralidad y de prestigio de la Red de colaboración entre países.

Degree Central i ty: Top verti ces

| Vertex ID | Degree | Central i ty |
|-----------|------------------|--------------|
| 1 | USA | 0. 3725 |
| 2 | UNI TED KI NGDOM | 0. 3137 |
| 3 | GERMANY | 0. 2549 |
| 4 | SPAI N | 0. 1569 |
| 5 | NETHERLANDS | 0. 1569 |
| 6 | CANADA | 0. 1569 |
| 7 | BELGI UM | 0. 1569 |
| 8 | FRANCE | 0. 1176 |
| 9 | SWEDEN | 0. 1176 |
| 10 | I TALY | 0. 1176 |
| 11 | AUSTRI A | 0. 0980 |
| 12 | KOREA | 0. 0980 |
| 13 | I RELAND | 0. 0980 |
| 14 | DENMARK | 0. 0980 |
| 15 | AUSTRALI A | 0. 0784 |
| 16 | GREECE | 0. 0784 |
| 17 | CHI NA | 0. 0588 |
| 18 | NORWAY | 0. 0588 |
| 19 | POLAND | 0. 0588 |
| 20 | SI NGAPORE | 0. 0392 |
| 21 | SWI TZERLAND | 0. 0392 |
| 22 | FI NLAND | 0. 0392 |
| 23 | I SRAEL | 0. 0392 |
| 24 | SLOVAKI A | 0. 0196 |
| 25 | ARGENTI NA | 0. 0196 |
| 26 | KAZAKHSTAN | 0. 0196 |
| 27 | BRAZI L | 0. 0196 |
| 28 | I NDONESI A | 0. 0196 |
| 29 | I NDI A | 0. 0196 |
| 30 | MALTA | 0. 0196 |
| 31 | BULGARI A | 0. 0196 |
| 32 | I RAN | 0. 0196 |
| 33 | TAI WAN | 0. 0000 |
| 34 | CZECH REPUBLI C | 0. 0000 |
| 35 | PORTUGAL | 0. 0000 |
| 36 | HUNGARY | 0. 0000 |
| 37 | MEXI CO | 0. 0000 |
| 38 | CROATI A | 0. 0000 |
| 39 | ROMANI A | 0. 0000 |
| 40 | ESTONI A | 0. 0000 |
| 41 | CHI LE | 0. 0000 |
| 42 | HONG KONG | 0. 0000 |
| 43 | NEW ZEALAND | 0. 0000 |
| 44 | SLOVENI A | 0. 0000 |
| 45 | SOUTH AFRI CA | 0. 0000 |

| | | |
|----|------------|--------|
| 46 | COLOMBIA | 0.0000 |
| 47 | JAPAN | 0.0000 |
| 48 | CYPRUS | 0.0000 |
| 49 | LUXEMBOURG | 0.0000 |
| 50 | TURKEY | 0.0000 |

Closeness Centrality: Top vertices

| Vertex ID | | Closeness Centrality |
|-----------|----------------|----------------------|
| 1 | USA | 0.0470 |
| 2 | UNITED KINGDOM | 0.0468 |
| 3 | GERMANY | 0.0466 |
| 4 | BELGIUM | 0.0465 |
| 5 | SPAIN | 0.0464 |
| 6 | NETHERLANDS | 0.0463 |
| 7 | CANADA | 0.0463 |
| 8 | SWEDEN | 0.0462 |
| 9 | FRANCE | 0.0462 |
| 10 | ITALY | 0.0461 |
| 11 | AUSTRALIA | 0.0461 |
| 12 | AUSTRIA | 0.0461 |
| 13 | IRELAND | 0.0461 |
| 14 | KOREA | 0.0460 |
| 15 | DENMARK | 0.0460 |
| 16 | CHINA | 0.0459 |
| 17 | ISRAEL | 0.0459 |
| 18 | SWITZERLAND | 0.0458 |
| 19 | GREECE | 0.0458 |
| 20 | NORWAY | 0.0457 |
| 21 | BRAZIL | 0.0457 |
| 22 | INDIA | 0.0457 |
| 23 | MALTA | 0.0455 |
| 24 | IRAN | 0.0455 |
| 25 | POLAND | 0.0455 |
| 26 | SINGAPORE | 0.0454 |
| 27 | FINLAND | 0.0453 |
| 28 | ARGENTINA | 0.0452 |
| 29 | KAZAKHSTAN | 0.0448 |
| 30 | BULGARIA | 0.0445 |
| 31 | SLOVAKIA | 0.0443 |
| 32 | INDONESIA | 0.0442 |
| 33 | TAIWAN | 0.0192 |
| 34 | CZECH REPUBLIC | 0.0192 |
| 35 | PORTUGAL | 0.0192 |
| 36 | HUNGARY | 0.0192 |
| 37 | MEXICO | 0.0192 |
| 38 | CROATIA | 0.0192 |
| 39 | ROMANIA | 0.0192 |
| 40 | ESTONIA | 0.0192 |
| 41 | CHILE | 0.0192 |
| 42 | HONG KONG | 0.0192 |
| 43 | NEW ZEALAND | 0.0192 |
| 44 | SLOVENIA | 0.0192 |
| 45 | SOUTH AFRICA | 0.0192 |
| 46 | COLOMBIA | 0.0192 |
| 47 | JAPAN | 0.0192 |
| 48 | CYPRUS | 0.0192 |
| 49 | LUXEMBOURG | 0.0192 |
| 50 | TURKEY | 0.0192 |

Eigenvector Centrality: Top vertices

| Vertex ID | | Eigenvector Centrality |
|-----------|----------------|------------------------|
| 1 | USA | 1.00000 |
| 2 | UNITED KINGDOM | 0.89986 |
| 3 | GERMANY | 0.77972 |
| 4 | CANADA | 0.59075 |
| 5 | NETHERLANDS | 0.55749 |
| 6 | SPAIN | 0.53393 |
| 7 | ITALY | 0.49156 |
| 8 | BELGIUM | 0.46507 |
| 9 | FRANCE | 0.44698 |

| | | |
|----|---------------------------|----------|
| 10 | I R E L A N D | 0. 44277 |
| 11 | A U S T R I A | 0. 44277 |
| 12 | S W E D E N | 0. 44159 |
| 13 | D E N M A R K | 0. 40097 |
| 14 | A U S T R A L I A | 0. 39371 |
| 15 | K O R E A | 0. 34473 |
| 16 | G R E E C E | 0. 30503 |
| 17 | C H I N A | 0. 23426 |
| 18 | I S R A E L | 0. 23277 |
| 19 | S W I T Z E R L A N D | 0. 21805 |
| 20 | N O R W A Y | 0. 16340 |
| 21 | B R A Z I L | 0. 12252 |
| 22 | I N D I A | 0. 12252 |
| 23 | I R A N | 0. 11025 |
| 24 | M A L T A | 0. 11025 |
| 25 | P O L A N D | 0. 06558 |
| 26 | A R G E N T I N A | 0. 06542 |
| 27 | F I N L A N D | 0. 06214 |
| 28 | S I N G A P O R E | 0. 05785 |
| 29 | K A Z A K H S T A N | 0. 04224 |
| 30 | B U L G A R I A | 0. 02002 |
| 31 | S L O V A K I A | 0. 00803 |
| 32 | I N D O N E S I A | 0. 00709 |
| 33 | T A I W A N | 0. 00000 |
| 34 | C Z E C H R E P U B L I C | 0. 00000 |
| 35 | P O R T U G A L | 0. 00000 |
| 36 | H U N G A R Y | 0. 00000 |
| 37 | M E X I C O | 0. 00000 |
| 38 | C R O A T I A | 0. 00000 |
| 39 | R O M A N I A | 0. 00000 |
| 40 | E S T O N I A | 0. 00000 |
| 41 | C H I L E | 0. 00000 |
| 42 | H O N G K O N G | 0. 00000 |
| 43 | N E W Z E A L A N D | 0. 00000 |
| 44 | S L O V E N I A | 0. 00000 |
| 45 | S O U T H A F R I C A | 0. 00000 |
| 46 | C O L O M B I A | 0. 00000 |
| 47 | J A P A N | 0. 00000 |
| 48 | C Y P R U S | 0. 00000 |
| 49 | L U X E M B O U R G | 0. 00000 |
| 50 | T U R K E Y | 0. 00000 |

Betweenness Centrality: Top vertices

| Vertex ID | | Betweenness Centrality |
|-----------|----------------|------------------------|
| 1 | USA | 0. 125581 |
| 2 | BELGIUM | 0. 088671 |
| 3 | UNITED KINGDOM | 0. 083926 |
| 4 | GERMANY | 0. 047691 |
| 5 | SPAIN | 0. 045246 |
| 6 | POLAND | 0. 026863 |
| 7 | SINGAPORE | 0. 023529 |
| 8 | NORWAY | 0. 023529 |
| 9 | KOREA | 0. 023529 |
| 10 | SWEDEN | 0. 021359 |
| 11 | NETHERLANDS | 0. 009739 |
| 12 | CANADA | 0. 009690 |
| 13 | FRANCE | 0. 003203 |
| 14 | FINLAND | 0. 002484 |
| 15 | ITALY | 0. 001046 |
| 16 | DENMARK | 0. 000854 |
| 17 | GREECE | 0. 000314 |
| 18 | AUSTRALIA | 0. 000000 |
| 19 | AUSTRIA | 0. 000000 |
| 20 | CHINA | 0. 000000 |
| 21 | SLOVAKIA | 0. 000000 |
| 22 | TAIWAN | 0. 000000 |
| 23 | ARGENTINA | 0. 000000 |
| 24 | CZECH REPUBLIC | 0. 000000 |
| 25 | SWITZERLAND | 0. 000000 |
| 26 | KAZAKHSTAN | 0. 000000 |
| 27 | BRAZIL | 0. 000000 |
| 28 | IRELAND | 0. 000000 |

| | | |
|----|--------------|----------|
| 29 | PORTUGAL | 0.000000 |
| 30 | INDONESIA | 0.000000 |
| 31 | INDIA | 0.000000 |
| 32 | HUNGARY | 0.000000 |
| 33 | MEXICO | 0.000000 |
| 34 | CROATIA | 0.000000 |
| 35 | ROMANIA | 0.000000 |
| 36 | ISRAEL | 0.000000 |
| 37 | ESTONIA | 0.000000 |
| 38 | CHILE | 0.000000 |
| 39 | HONG KONG | 0.000000 |
| 40 | NEW ZEALAND | 0.000000 |
| 41 | SLOVENIA | 0.000000 |
| 42 | MALTA | 0.000000 |
| 43 | SOUTH AFRICA | 0.000000 |
| 44 | BULGARIA | 0.000000 |
| 45 | COLOMBIA | 0.000000 |
| 46 | JAPAN | 0.000000 |
| 47 | CYPRUS | 0.000000 |
| 48 | LUXEMBOURG | 0.000000 |
| 49 | IRAN | 0.000000 |
| 50 | TURKEY | 0.000000 |

PageRank Score: Top vertices

| | Vertex ID | Pagerank Score |
|----|----------------|----------------|
| 1 | USA | 0.10200 |
| 2 | UNITED KINGDOM | 0.08601 |
| 3 | GERMANY | 0.06818 |
| 4 | BELGIUM | 0.04913 |
| 5 | SPAIN | 0.04675 |
| 6 | NETHERLANDS | 0.04208 |
| 7 | CANADA | 0.04197 |
| 8 | SWEDEN | 0.03425 |
| 9 | FRANCE | 0.03291 |
| 10 | ITALY | 0.03170 |
| 11 | KOREA | 0.03047 |
| 12 | DENMARK | 0.02742 |
| 13 | IRELAND | 0.02695 |
| 14 | AUSTRIA | 0.02695 |
| 15 | POLAND | 0.02667 |
| 16 | NORWAY | 0.02286 |
| 17 | AUSTRALIA | 0.02284 |
| 18 | GREECE | 0.02264 |
| 19 | SINGAPORE | 0.02058 |
| 20 | CHINA | 0.01873 |
| 21 | FINLAND | 0.01669 |
| 22 | ISRAEL | 0.01342 |
| 23 | SWITZERLAND | 0.01331 |
| 24 | INDONESIA | 0.01303 |
| 25 | SLOVAKIA | 0.01184 |
| 26 | BULGARIA | 0.01076 |
| 27 | KAZAKHSTAN | 0.00947 |
| 28 | ARGENTINA | 0.00925 |
| 29 | MALTA | 0.00886 |
| 30 | IRAN | 0.00886 |
| 31 | BRAZIL | 0.00885 |
| 32 | INDIA | 0.00885 |
| 33 | TAIWAN | 0.00429 |
| 34 | CZECH REPUBLIC | 0.00429 |
| 35 | PORTUGAL | 0.00429 |
| 36 | HUNGARY | 0.00429 |
| 37 | MEXICO | 0.00429 |
| 38 | CROATIA | 0.00429 |
| 39 | ROMANIA | 0.00429 |
| 40 | ESTONIA | 0.00429 |
| 41 | CHILE | 0.00429 |
| 42 | HONG KONG | 0.00429 |
| 43 | NEW ZEALAND | 0.00429 |
| 44 | SLOVENIA | 0.00429 |
| 45 | SOUTH AFRICA | 0.00429 |
| 46 | COLOMBIA | 0.00429 |
| 47 | JAPAN | 0.00429 |

| | | |
|----|------------|---------|
| 48 | CYPRUS | 0.00429 |
| 49 | LUXEMBOURG | 0.00429 |
| 50 | TURKEY | 0.00429 |

Hub Score: Top vertices

| Vertex ID | | Hub Score |
|-----------|----------------|-----------|
| 1 | USA | 1.00000 |
| 2 | UNITED KINGDOM | 0.89986 |
| 3 | GERMANY | 0.77972 |
| 4 | CANADA | 0.59075 |
| 5 | NETHERLANDS | 0.55749 |
| 6 | SPAIN | 0.53393 |
| 7 | ITALY | 0.49156 |
| 8 | BELGIUM | 0.46507 |
| 9 | FRANCE | 0.44698 |
| 10 | AUSTRIA | 0.44277 |
| 11 | IRELAND | 0.44277 |
| 12 | SWEDEN | 0.44159 |
| 13 | DENMARK | 0.40097 |
| 14 | AUSTRALIA | 0.39371 |
| 15 | KOREA | 0.34473 |
| 16 | GREECE | 0.30503 |
| 17 | CHINA | 0.23426 |
| 18 | ISRAEL | 0.23277 |
| 19 | SWITZERLAND | 0.21805 |
| 20 | NORWAY | 0.16340 |
| 21 | BRAZIL | 0.12252 |
| 22 | INDIA | 0.12252 |
| 23 | MALTA | 0.11025 |
| 24 | IRAN | 0.11025 |
| 25 | POLAND | 0.06558 |
| 26 | ARGENTINA | 0.06542 |
| 27 | FINLAND | 0.06214 |
| 28 | SINGAPORE | 0.05785 |
| 29 | KAZAKHSTAN | 0.04224 |
| 30 | BULGARIA | 0.02002 |
| 31 | SLOVAKIA | 0.00803 |
| 32 | INDONESIA | 0.00709 |
| 33 | TAIWAN | 0.00000 |
| 34 | CZECH REPUBLIC | 0.00000 |
| 35 | PORTUGAL | 0.00000 |
| 36 | HUNGARY | 0.00000 |
| 37 | MEXICO | 0.00000 |
| 38 | CROATIA | 0.00000 |
| 39 | ROMANIA | 0.00000 |
| 40 | ESTONIA | 0.00000 |
| 41 | CHILE | 0.00000 |
| 42 | HONG KONG | 0.00000 |
| 43 | NEW ZEALAND | 0.00000 |
| 44 | SLOVENIA | 0.00000 |
| 45 | SOUTH AFRICA | 0.00000 |
| 46 | COLOMBIA | 0.00000 |
| 47 | JAPAN | 0.00000 |
| 48 | CYPRUS | 0.00000 |
| 49 | LUXEMBOURG | 0.00000 |
| 50 | TURKEY | 0.00000 |

Authority Score: Top vertices

| Vertex ID | | Authority Score |
|-----------|----------------|-----------------|
| 1 | USA | 1.00000 |
| 2 | UNITED KINGDOM | 0.89986 |
| 3 | GERMANY | 0.77972 |
| 4 | CANADA | 0.59075 |
| 5 | NETHERLANDS | 0.55749 |
| 6 | SPAIN | 0.53393 |
| 7 | ITALY | 0.49156 |
| 8 | BELGIUM | 0.46507 |
| 9 | FRANCE | 0.44698 |
| 10 | AUSTRIA | 0.44277 |
| 11 | IRELAND | 0.44277 |

| | | |
|----|----------------|---------|
| 12 | SWEDEN | 0.44159 |
| 13 | DENMARK | 0.40097 |
| 14 | AUSTRALIA | 0.39371 |
| 15 | KOREA | 0.34473 |
| 16 | GREECE | 0.30503 |
| 17 | CHINA | 0.23426 |
| 18 | ISRAEL | 0.23277 |
| 19 | SWITZERLAND | 0.21805 |
| 20 | NORWAY | 0.16340 |
| 21 | BRAZIL | 0.12252 |
| 22 | INDIA | 0.12252 |
| 23 | MALTA | 0.11025 |
| 24 | IRAN | 0.11025 |
| 25 | POLAND | 0.06558 |
| 26 | ARGENTINA | 0.06542 |
| 27 | FINLAND | 0.06214 |
| 28 | SINGAPORE | 0.05785 |
| 29 | KAZAKHSTAN | 0.04224 |
| 30 | BULGARIA | 0.02002 |
| 31 | SLOVAKIA | 0.00803 |
| 32 | INDONESIA | 0.00709 |
| 33 | TAIWAN | 0.00000 |
| 34 | CZECH REPUBLIC | 0.00000 |
| 35 | PORTUGAL | 0.00000 |
| 36 | HUNGARY | 0.00000 |
| 37 | MEXICO | 0.00000 |
| 38 | CROATIA | 0.00000 |
| 39 | ROMANIA | 0.00000 |
| 40 | ESTONIA | 0.00000 |
| 41 | CHILE | 0.00000 |
| 42 | HONG KONG | 0.00000 |
| 43 | NEW ZEALAND | 0.00000 |
| 44 | SLOVENIA | 0.00000 |
| 45 | SOUTH AFRICA | 0.00000 |
| 46 | COLOMBIA | 0.00000 |
| 47 | JAPAN | 0.00000 |
| 48 | CYPRUS | 0.00000 |
| 49 | LUXEMBOURG | 0.00000 |
| 50 | TURKEY | 0.00000 |

Overall Ranking: Top vertices

| Vertex ID | | Overall Ranking |
|-----------|----------------|-----------------|
| 1 | USA | 1.0 |
| 2 | UNITED KINGDOM | 2.0 |
| 3 | GERMANY | 3.0 |
| 4 | BELGIUM | 4.0 |
| 5 | SPAIN | 5.0 |
| 6 | CANADA | 6.0 |
| 7 | NETHERLANDS | 7.0 |
| 8 | SWEDEN | 8.0 |
| 9 | ITALY | 9.0 |
| 10 | FRANCE | 10.0 |
| 11 | IRELAND | 11.0 |
| 12 | AUSTRIA | 12.0 |
| 13 | KOREA | 13.0 |
| 14 | DENMARK | 14.0 |
| 15 | AUSTRALIA | 15.0 |
| 16 | GREECE | 16.0 |
| 17 | NORWAY | 17.0 |
| 18 | CHINA | 18.0 |
| 19 | ISRAEL | 19.0 |
| 20 | SWITZERLAND | 20.0 |
| 21 | POLAND | 21.0 |
| 22 | SINGAPORE | 22.0 |
| 23 | BRAZIL | 23.5 |
| 24 | INDIA | 23.5 |
| 25 | FINLAND | 25.0 |
| 26 | IRAN | 26.0 |
| 27 | MALTA | 27.0 |
| 28 | ARGENTINA | 28.0 |
| 29 | KAZAKHSTAN | 29.0 |
| 30 | BULGARIA | 30.0 |

| | | |
|----|----------------|------|
| 31 | INDONESIA | 31.0 |
| 32 | SLOVAKIA | 32.0 |
| 33 | TAIWAN | 42.5 |
| 34 | CZECH REPUBLIC | 42.5 |
| 35 | PORTUGAL | 42.5 |
| 36 | HUNGARY | 42.5 |
| 37 | MEXICO | 42.5 |
| 38 | CROATIA | 42.5 |
| 39 | ROMANIA | 42.5 |
| 40 | ESTONIA | 42.5 |
| 41 | CHILE | 42.5 |
| 42 | HONG KONG | 42.5 |
| 43 | NEW ZEALAND | 42.5 |
| 44 | SLOVENIA | 42.5 |
| 45 | SOUTH AFRICA | 42.5 |
| 46 | COLOMBIA | 42.5 |
| 47 | JAPAN | 42.5 |
| 48 | CYPRUS | 42.5 |
| 49 | LUXEMBOURG | 42.5 |
| 50 | TURKEY | 42.5 |