## Papers Published

Edward Neuman<br>Department of Mathematics, Southern Illinois University, Carbondale, IL 62901, USA<br>and<br>Mathematical Research Institute, 144 Hawthorn Hollow, Carbondale, IL, 62903, USA

138. Wilker and Huygens-type inequalities for some bivariate means with applications to elementary functions, J. Inequal Spec. Funct. 10 (2019), no. 1, 161166.
139. On a new family of bivariate means II, J. Math. Inequal., 12(2018), no. 3, 873-882, DOI: 10.7153/jmi-2018-12-65.
140. Generalized Gudermannian function, Probl. Anal., Issues Anal., Vol. 7(25), No. 1, 2018, DOI:10.15393/j3.art.20.
141. Inequalities and bounds for a certain bivariate elliptic mean II, Math. Inequal. Appl., 21 (2018), no. 2, 345-352.
142. On Yang means III, Bull. Int. Math. Virtual Inst., 8(2018), 113-122.
143. Wilker and Huygens-type inequalities involving Gudermannian and the inverse Gudermannian functions, Probl. Anal., Issues Anal., Vol. 6(24), No. 1, 2017, 46-57. DOI: 10.15393/j3.art. 2017.3770.
144. On a new family of bivariate means, J. Math. Inequal., 11 (2017), no. 3, 673 - 681 .
145. On Yang means II, Adv. Inequal Appl., Vol. 2017 (2017), Article ID 11, 9 pages.
146. On Yang means, Adv. Inequal Appl., Vol. 2017 (2017), Article ID 8, 9 pages.
147. On two bivariate elliptic means, J. Math. Inequal., 11 (2017), no. 2, 345 354.
148. A note on Mitrinovic-Lazarevic inequality, Math Problems, 6(2016), no. 2, 586-589.
149. Inequalities involving hyperbolic functions and trigonometric functions, J. Internat. Math. Virtual Inst., 6 (2016), no. 2, 209-217.
150. Inequalities and bounds for a certain bivariate elliptic means, Math. Inequal. Appl., 19 (2016), no. 4, 1375-1385.
151. Some properties of the generalized Jacobian elliptic functions III, Integral Transforms Spec. Funct., 27 (2016), no. 10, $824-834$.
152. Some properties of the generalized Jacobian elliptic functions II, Integral Transforms Spec. Funct., 27 (2016), no. 2, 101-110.
153. On the p-version of the Schwab-Borchardt mean II, Internat. J. Math. Math. Sci., Volume 2015, Article ID 351742, 4 pages.
154. Wilker and Huygens type inequalities for some elementary functions and Eulerian numbers, Adv. Studies Contemp. Math., 25(2015), no. 2, 189-194.
155. On a new bivariate mean II, Aequationes Math., 89(2015), no. 4, 1031 1040.
156. Some properties of the generalized Jacobian elliptic functions, Integral Transforms Spec. Funct., 26 (2015), no.7, 498-506.
157. Inequalities for the generalized trigonometric, hyperbolic and Jacobian elliptic functions, J. Math. Inequal., 9 (2015), no. 3, 709-726.
158. Inequalities for Jacobian elliptic functions, J. Ineq. Spec. Funct., 5 (2014), no. 3, 1-5.
159. Optimal bounds for certain bivariate means, Issues of Anal., 3(21) (2014), no. 1, 35-43.
160. Inequalities involving generalized trigonometric and hyperbolic functions, J. Math. Inequal., 8 (2014), no. 4, 725-736.
161. On a new bivariate mean, Aequationes Math., 88 (2014), no. 3, 277-289.
162. Inequalities involving generalized Jacobian elliptic functions, Integral Transforms Spec. Funct., 25 (2014), no. 11, 864-873.
163. On the p-version of the Schwab-Borchardt mean, Internat. J. Math. Math. Sci., Volume 2014, Article ID 697643, 7 pages.
164. On the inequalities for the generalized trigonometric functions, Internat. J. Anal., Volume 2014, Article ID 319837, 5 pages.
165. On generalized Seiffert means, Aequationes Math., 87 (2014), no. 3, 325 335.
166. On bivariate means derived from the Schwab-Borchardt mean II., J. Math. Inequal., 8 (2014), no.2, 359-368.
167. On bivariate means derived from the Schwab-Borchardt mean., J. Math. Inequal., 8 (2014), no. 1, 171-183.
168. Wilker and Huygens- type inequalities for the generalized trigonometric and for the generalized hyperbolic functions, Appl. Math. Comput. 230 (2014), 211 217.
169. Wilker and Huygens- type inequalities for Jacobian elliptic and theta functions, Integral Transforms Spec. Funct. 25 (2014), no. 3, 240-248.
170. Product formulas and inequalities involving theta functions, Integral Transforms Spec. Funct. 23 (2013), no. 12, 976-981.
171. A note on the Jacobian elliptic sine function, Integral Transforms Spec. Funct. 24 (2013), no. 7, 548-553.
172. Inequalities involving certain bivariate means II, J. Inequal. Spec. Funct. 4 (2013), no. 4, 12-20.
173. Sharp inequalities for Neuman-Sándor and logarithmic means, J. Math. Inequal. 7 (2013), no. 3, 413-419.
174. A one-parameter family of bivariate means, J. Math. Inequal. 7 (2013), no. 3, 399-412.
175. An inequality involving multivariate logarithmic mean, J. Inequal. Spec. Funct. 4 (2013), no. 2, 40-42.
176. Inequalities and bounds for the incomplete gamma function, Results Math. 63 (2013), No. 3, 1209-1214.
177. Inequalities involving Eulerian numbers, Adv. Studies Contemp. Math. 23 (2013), No. 2, 309-312.
178. Bounds for entries of the inverse matrix of a tridiagonal matrix, Appl. Math. Comput. 219 (2013), 9210-9212.
179. Inequalities involving certain bivariate means, Bull. Internat. Math. Virtual Inst. 3 (2013), No. 1, 49-57.
180. On lemniscate functions, Integral Transforms Spec. Funct. 24 (2013), No. 3, 164-171.
181. Bounds for the quotients of differences of certain bivariate means (with J. Sándor), Adv. Studies Contemp. Math. 23 (2013), No. 1, 61-67.
182. Inequalities involving logarithmic mean of arbitrary order (with J. Sándor), Mat. Inequal. Appl. 16 (2013), No. 2, 501-506.
183. On Gauss lemniscate functions and lemniscatic mean II, Math. Pannon 23 (2012), No. 1, 65-73.
184. Inequalities for weighted sums of powers and their applications, Math. Inequal. Appl. 15 (2012), No. 4, 995-1005.
185. Inequalities involving Jacobian elliptic functions and their inverses (with. J. Sándor), Integral Transforms Spec. Funct. 23 (2012), No. 10, 719 - 722.
186. A note on a certain bivariate mean, J. Math. Inequal. 6 (2012), No. 4, 637 643.
187. Inequalities involving Jacobian elliptic, trigonometric and hyperbolic functions, J. Inequal. Spec. Funct. 3 (2012), No. 2, 16-21.
188. Refinements and generalizations of certain inequalities involving trigonometric and hyperbolic functions, Adv. Inequal. Appl. 1 (2012), No. 1, 1 11.
189. Inequalities involving multivariate convex functions IV, J. Math. Inequal. 6 (2012), No. 2, 299-305..
190. On Wilker and Huygens type inequalities, Math. Inequal. Appl. 15 (2012), No.2, 271-279.
191. Inequalities for hyperbolic functions (with J. Sándor), Appl. Math. Comput. 218 (2012), 9291-9295.
192. Product formulas and bounds for Jacobian elliptic functions with applications, Integral Transforms Spec. Funct. 23 (2012), 347-354.
193. Inequalities involving hyperbolic functions and trigonometric functions, Bull. Internat. Math. Virtual Inst., 2(2012), 87-92.
194. Inequalities for Jacobian elliptic functions and Gauss lemniscate functions, Appl. Math. Comput. 218 (2012), 7774-7782.
195. On one - parameter family of bivariate means, Aequationes Math. 83 (2012), No. 1-2, 191-197.
196. Inequalities involving multivariate convex functions III, Rocky Mountain J. Math. 42 (2012), No.1, 251-256.
197. Some inequalities for the gamma function, Appl. Math. Comput. 218 (2011), No. 8, 4349-4352.
198. Inequalities for the Schwab - Borchardt mean and their applications, J. Math. Inequal , 5 (2011), 601-609.
199. Optimal inequalities for hyperbolic and trigonometric functions (with. J. Sándor), Bull. Math. Anal. Appl. 3 (2011), 177-181.
200. Inequalities and bounds for generalized complete elliptic integrals, J. Math. Anal. Appl. 373 (2011), 203-213.
201. Two-sided inequalities for the lemniscate functions, J. Inequal. Spec. Funct. 1 (2010), 1-7.
202. On some inequalities involving trigonometric and hyperbolic functions with emphasis on the Cusa-Huygens, Wilker and Huygens inequalities (with J. Sandor), Math. Inequal Appl. 13 (2010), No. 4, 715-723.
203. One-and two-sided inequalities for Jacobian elliptic functions and related results, Integral Transforms Spec. Funct. 21 (2010), No.6, 399-407.
204. Inequalities involving inverse circular and inverse hyperbolic functions II, J. Math. Inequal. 4 (2010), No.1, 11-14.
205. Companion inequalities for certain bivariate means (with J. Sandor), Appl. Anal. Discrete Math. 3 (2009), 46-51.
206. Inequalities and bounds for elliptic integrals II (with H. Kazi), Special functions and orthogonal polynomials, 127-138, Contemp. Math., 471, Amer. Math. Soc., Providence, RI, 2008.
207. Inequalities for the ratios of certain bivariate means (with J. Sandor), J. Math. Inequal. 2(3) (2008), 383-396.
208. Generalized Heronian means (with J. Sandor), Math. Pannon. 19(1) (2008), 57-70.
209. The Hermite - Hadamard inequalities for double Dirichlet averages and their applications to special functions, in: "Advances in Inequalities for Special Functions" (P. Cerone and S.S. Dragomir, eds.), pp. 107-117, Nova Science Publ., New York, 2008.
210. On Gauss lemniscate functions and lemniscatic mean, Math. Pannon. 18(1) (2007), 77-94.
211. Inequalities and bounds for elliptic integrals (with H. Kazi), J. Approx. Theory, 146 (2007), 212-226.
212. Product formulas involving Gauss hypergeometric functions, Austral. J. Math. Anal. Appl. 4(1) (2007), Article 14, pp. 1-9 (electronic).
213. Inequalities involving modified Bessel functions of the first kind II (with A. Baricz), J. Math. Anal. Appl. 332 (2007), 265-271.
214. Inequalities involving inverse circular and inverse hyperbolic functions, Univ. Beograd, Publ. Elektrotehn. Fak. Ser. Mat. 18 (2007), 32-37.
215. On the Schwab - Borchardt mean II (with J. Sandor), Math. Pannon. 17(1) (2006), 49-59.
216. On Hahn polynomials and continuous dual Hahn polynomials, J. Comput. Anal. Appl. 8(3) (2006), 229-248.
217. Inequalities involving a logarithmically convex function and their applications to special functions, J. Ineq. Pure and Appl. Math. 7(1) (2006), Article 16, 4 pp . (electronic).
218. Inequalities involving generalized Bessel functions (with A. Baricz), J. Ineq. Pure and Appl. Math. 6(4) (2005), Article 126, 9 pp. (electronic).
219. On the Ky Fan inequality and related inequalities, II (with J. Sandor), Bull. Austral. Math. Soc. 72 (2005), 87-107.
220. Hermite - Hadamard's inequalities for multivariate $g$ - convex functions (with M. Klaricic Bakula, J. Pecaric, and V. Simic), Math. Inequal. Appl. 8(2) (2005), 305-316.
221. Stolarsky means of several variables, J. Ineq. Pure and Appl. Math. 6(2) (2005), Article 30, 10 pp. (electronic).
222. Inequalities involving logarithmic, power and symmetric means, J. Ineq. Pure and Appl. Math. 6(1) (2005), Article 15, 5 pp. (electronic).
223. Inequalities involving Bessel functions of the first kind, J. Ineq. Pure and Appl. Math., 5(4) (2004), Article 94, 4 pp. (electronic).
224. A generalization of an inequality of Jia and Cau, J. Ineq. Pure and Appl. Math., 5(1) (2004), Article 15, 4 pp. (electronic).
225. On two problems posed by Kenneth Stolarsky, J. Ineq. Pure and Appl. Math. 5(1) (2004), Article 9, 6 pp. (electronic).
226. The generalized Hadamard inequality, g-convexity and functional Stolarsky means (with C.E.M. Pearce, J. Pecaric, and V. Simic), Bull. Austral. Math. Soc. 68 (2003), 303-316.
227. On the Schwab- Borchardt mean (with J. Sandor), Math. Pannon. 14(2) (2003), 253-266.
228. Bounds for symmetric elliptic integrals, J. Approx. Theory, 122 (2003), 249259.
229. Inequalities involving Stolarsky and Gini means (with J. Sandor), Math. Pannon. 14(1) (2003), 29-44.
230. On certain means of two arguments and their extensions (with J. Sandor), Int. J. Math. Math. Sci. 16 (2003), 981-993.
231. On comparison of Stolarsky and Gini means (with Zs. Pales), J. Math. Anal. Appl. 278(2) (2003), 274-284.
232. On the Ky Fan inequality and related inequalities, I (with J. Sandor), Math. Inequal. Appl. 5(1) (2002), 49-56.
233. Dirichlet averages and their applications to Gegenbauer functions, Int. J. Math. Statist. Math. Sci. 5(1996), 26-42.
234. The weighted logarithmic mean, J. Math. Anal. Appl. 188 (1994), 885-900.
235. A new formula for box splines on three-directional meshes, Math. Comp. 62 (1994), 227-229.
236. Moments of Dirichlet splines and their applications to hypergeometric functions (with P. Van Fleet), J. Comput. Appl. Math. 55 (1994), 225-241.
237. Inequalities involving modified Bessel functions of the first kind, J. Math. Anal. Appl. 171 (1992), 532-536.
238. Inequalities involving multivariate convex functions, II, Proc. Amer. Math. Soc. 109 (1990), 965-974.
239. Computation of inner products of some multivariate splines, in: Splines in Numerical Analysis (Proc. Conf. Weissig), Vol. 52 (J. Schmidt and H. Spath, Eds.), 97-110, Akademie-Verlag, Berlin , 1989.
240. Short proof of an identity of Gaffney, BIT 29 (1989), 155-156.
241. Inequalities involving multivariate convex functions (with J. Pecaric), J. Math. Anal. Appl. 137 (1989), 541-549.
242. On complete symmetric functions, SIAM J. Math. Anal. 19 (1988), 736-750.
243. On Hadamard's inequality for convex functions, Intern. J. Math. Edu. Sci. Technol. 19 (1988), 753-755.
244. Inverse matrices of cyclic tridiagonal matrices (with J. Lysiak and J. Nowak), Appl. Math. 20 (1988), 93-102.
31.Stirling polynomials of the second kind, J. Combin. Math. Combin. Comput. 1 (1987), 175-180.
245. Convex interpolating splines of arbitrary degree, III, BIT 26 (1986), 527-536.
246. Inequalities involving generalized symmetric means, J. Math. Anal. Appl. 120 (1986), 315-320.
247. On the convergence of quadratic spline interpolants (with J. Schmidt), J. Approx. Theory, 45 (1985), 299-309.
248. On generalized symmetric means and Stirling numbers of the second kind, Appl. Math. 18 (1985), 645-656.
249. Properties of a class of polynomial splines, IMA J. Numer. Anal. 3 (1983), 245-252.
250. Quadratic spline interpolation with coinciding interpolation and spline grids, J. Comput. Appl. Math. 8 (1982), 245-252.
251. Convex interpolating splines of arbitrary degree, II, BIT, 22 (1982), 331-338.
252. Calculation of complex Fourier coefficients using natural splines, Computing, 29 (1982), 327-336.
253. Bounds for the norm of certain spline projections, II, J. Approx. Theory, 35 (1982), 299-310.
254. Cubic splines with given values of the second derivative at the knots, Demonstratio Math. 14 (1981), 115-125.
255. Cubic splines with given values of of the derivatives at the knots, Funct. Approx. Comment. Math. 11 (1981), 25-30.
256. Moments and the Fourier transform of the B-splines, J. Comput. Appl. Math. 7 (1981), 51-62.
257. A note on Stirling numbers of the first and second kinds, Univ. Beograd, Publ. Elektrotechn. Fak., Ser. Mat. Fiz. No. 678-715 (1980), 135-138.
258. Moments of B-splines, in: Approximation Theory III (Proc. Conf. Austin, Texas, E.W. Cheney, Ed.), 675-678, Academic Press, New York, 1980.
259. Quadratic splines and histospline projections, J. Approx. Theory, 29 (1980), 297-304.
260. An algorithm for computing a quadratic spline function with given values of its integrals in subintervals, Appl. Math. 16 (1980), 681-689.
261. Convex interpolating splines of arbitrary degree, in: Numerical Methods of Approximation Theory, Vol. 5 (Proc. Conf. Oberwolfach, L. Collatz, G. Meinardus and H. Werner, Eds.) 211-222, Birkhauser, Basel, 1980.
262. Bounds for the norm of certain spline projections, J. Approx. Theory 27 (1979), 135-145.
263. Uniform approximation by Hermite interpolating splines, J. Comput. Appl. Math. 4 (1978), 7-9.
264. Convex interpolating splines of odd degree, Utilitas Math. 14 (1978), 129-140.
265. An algorithm for computing quintic interpolating splines with evenly spaced double knots, Appl. Math. 16 (1977), 133-142.
266. On bounds for the norm of certain symmetric projections with finite carrier, J. Approx. Theory 20 (1977), 191-195.
267. Inverse matrices of some band matrices (in Polish), Mat. Stosow. 9 (1977), 1524.
268. An algorithm for computing quadratic interpolating splines, Appl. Math. 15 (1976), 245-250.
269. Computation of the minimum value of a certain function of several variables, Appl. Math. 14 (1974), 143-164.
270. Computation of the minimum value of a certain function of one variable, Appl. Math. 14 (1974), 137-142.
271. Projections in uniform polynomial approximation, Appl. Math. 14 (1974), 99125.
272. Optimal quadrature formulas for a certain class of analytic functions, Appl. Math. 11 (1970), 173-175.
273. Elliptic integrals of the second and third kind, Appl. Math. 11 (1969), 99-102.
274. On the computation of elliptic integrals of the second and third kinds, Appl. Math. 11 (1969), 91-94.

## Published Problems and Solutions

4. Problem 10798. An inequality involving the arithmetic, logarithmic, and geometric means of two variables, Amer. Math. Monthly, 107 (2000), p. 367.
5. Solution to problem 96-10, SIAM Review, 39 (1997), p. 332.
6. Problem 96-10. Three inequalities for the arithmetic, identric and geometric means, SIAM Review, 38 (1996), p. 315.
7. Problem E 2900, Amer. Math. Monthly, 88 (1981), p. 538.

## Erdös Number

Three (Zs. Pales ->J.D. Aczel -> P. Erdös and J. Sandor ->F. Luca-> P. Erdös)

