

1. PAPER PUBLISHED IN JOURNALS

1. E. Castillo, G. M. Karadi, and R. J. Krizek. Unconfined flow through jointed rock. *Water Resources Bulletin*, 8(2):266–281, 1972.
2. G. M. Karadi, Krizek, and E. Castillo. Hydrodynamic dispersion in a single rock joint. *Journal of Applied Physics*, 43(12):5013–5021, 1972.
3. E. Castillo and A. Serrano. Análisis probabilístico de la estabilidad de taludes rocosos. *Boletín del Laboratorio del Transporte y Mecánica del Suelo José Luis Escario*, 100:9–20, 1973.
4. R. J. Krizek, E. Castillo, and G. M. Karadi. Theoretical study of dispersion in a fractured rock aquifer. *Journal of Geophysical Research*, 78(3):8–573, 1973.
5. E. Castillo and J. Revilla. El cálculo de variaciones y la estabilidad de taludes. *Boletín del Laboratorio del Transporte y Mecánica del Suelo José Luis Escario*, 108:31–37, 1975.
6. A. Samartín, V. Jaria, and E. Castillo. Losa ortótropa circular. *Hormigón y Acero*, 118:111–129, 1976.
7. E. Castillo and J. Revilla. Una aplicación del cálculo de variaciones a la estabilidad de taludes. *Revista del Laboratorio del Transporte y Mecánica del Suelo José Luis Escario*, 115:3–23, 1976.
8. J. Revilla and E. Castillo. The calculus of variations applied to stability of slopes. *Geotechnique*, 27(1):1–11, 1977.
9. E. Castillo, M. Losada, and J. Puig-Pey. Análisis probabilístico del número de olas y su influencia en la altura de ola de cálculo de obras marítimas. *Revista de Obras Públicas*, 119(3148):639–648, 1977.
10. E. Castillo. Tratamiento algebraico de los teoremas de existencia y unicidad de problemas lineales de ecuaciones diferenciales. *Revista Matemática Hispano-Americana*, 37, 1977.
11. A. Luceño and E. Castillo. Determinación de la carga de hundimiento de zapatas mediante el cálculo de variaciones. *Revista del Laboratorio de Transporte y Mecánica del Suelo José Luis Escario*, 125:3–8, 1978.
12. M. Losada, E. Castillo, and J. Puig-Pey. Incidencia de los datos disponibles en la fiabilidad de la estimación de la ola de cálculo en las obras marítimas. *Revista de Obras Públicas*, 125(3161):667–671 and 779–781, 1978.
13. J. M. Gómez-Poncela and E. Castillo. Análisis y corrección de posibles defectos de composición y actuación de tribunales calificadoros. *Revista de la Universidad de Santander*, 1(2):1025–1050, 1979.
14. J. Puig-Pey, E. Castillo and E. Moreno. Approximation of distribution functions in their tails. Extreme value distributions. *Revista de la Universidad de Santander*, 2(II):1083–1097, 1979.
15. A. Luceño and E. Castillo. Análisis crítico de los métodos variacionales aplicados a la estabilidad de taludes. *Boletín del Laboratorio del Transporte y Mecánica del Suelo José Luis Escario*, 45:3–14, 1980.
16. E. Castillo and A. Luceño. Application of the calculus of variations to the vertical cut off in cohesive frictionless soil (discussion). *Geotechnique*, 30(1):1–16, 1980.
17. E. Castillo and A. Luceño. Nuevos mecanismos de rotura para la resolución de problemas de estabilidad. *Boletín del Laboratorio del Transporte y Mecánica del Suelo José Luis Escario*, 46(140):3–14, 1980.

18. E. Mora, E. Castillo, and J. Puig-Pey. Sobre la obtención de tests de potencia garantizada. *Questió*, 4(2):65–74, 1980.
19. A. Luceño and E. Castillo. Extreme value problems of limiting equilibrium (discussion). *Journal of the Geotechnical Engineering Division (ASCE)*, pages 1155–1171, 1980.
20. E. Castillo, A. Luceño, E. Mora, and J. Rodriguez. Control de tamaños y potencias en pruebas de hipótesis. *Questió*, 5(3):115–126, 1981.
21. E. Castillo and A. Luceño. Theoretical analysis of the stability of slopes (discussion). *Geotechnique*, 30:118–121, 1981.
22. E. Castillo and A. Luceño. Application of the calculus of variations to the vertical cut-off in cohesive frictionless soil. (discussion by J. de Jong). *Geotechnique*, 30:295–296, 1981.
23. E. Castillo. Bioestadística. *Acta Otorrinolaringológica española*, 33(5):777–807, 1982.
24. E. Castillo and A. Luceño. A critical analysis of some variational methods in slope stability analysis. *International Journal for Numerical and Analytical Methods in Geomechanics*, 6:195–209, 1982.
25. E. Castillo, E. Moreno, and J. Puig-Pey. Criterios mínimo-cuadráticos de ajuste de distribuciones de probabilidad a datos experimentales. *Revista de Obras Públicas*, 129:433–439, 1982.
26. A. Luceño and E. Castillo. Métodos variacionales basados en el teorema de la cota superior. *Revista de Obras Públicas*, 130:275–290, 1983.
27. E. Castillo and A. Luceño. Variational methods and the upper bound theorem. *Journal of Engineering Mechanics (ASCE)*, 109(5):1157–1174, October 1983.
28. E. Castillo and A. Luceño. Necessary conditions for minimax partially sequential truncated tests. *Communications in Statistics, Theory and Methods*, 2(4):337–358, 1983.
29. E. Castillo and J. García. Condiciones necesarias para pruebas secuenciales truncadas óptimas. hipótesis simples. *Stochastica*, 7(1):63–81, 1983.
30. E. Castillo, E. Moreno, and J. Puig-Pey. Nuevos modelos de distribuciones de extremos basados en aproximaciones en las ramas. *Trabajos de Estadística e Investigación Operativa*, 34:6–24, 1983.
31. E. Castillo, A. Fernández-Canteli, E. Mora, and A. Ascorbe. Influencia de la longitud en la resistencia a fatiga de tendones de puentes atirantados. *Anales de Ingeniería Mecánica*, 2:383–389, 1984.
32. E. Castillo, A. Fernández-Canteli, A. Ascorbe, and E. Mora. Aplicación de los modelos de series temporales al análisis estadístico de la resistencia de tendones de puentes atirantados. *Anales de Ingeniería Mecánica*, 2:379–382, 1984.
33. E. Castillo, A.V. Unzué Pérez, F. Gutiérrez-Solana, and Fernández Canteli. Estudio de la relación existente entre dos métodos clásicos del análisis de la resistencia a fatiga de elementos estructurales. *Anales de Ingeniería Mecánica*, 2(1):150–156, 1984.
34. E. Castillo, A. Fernández-Canteli, V. Esslinger, and B. Thurliman. Statistical model for fatigue analysis of wires, strands and cables. *IABSE Proceedings P-82/85*, pages 1–40, 1985.
35. E. Castillo and E. Alonso. Hacia la confluencia de las formulaciones probabilistas y deterministas en Geotecnia. *Boletín de la Sociedad Española de Mecánica del Suelo y Cimentaciones*, 77:17–29, 1985.

36. S.E. Echevarría, G. San Miguel, C. Rodríguez de Lope, E. Castillo, and F. Pons de Romero. Loss of suppressor t cell function and circulating immune complexes in alcoholic cirrhosis. *Allergol. et Immunopathol.*, 13(5):405–410, 1985.
37. S.E. Echevarría, G. San Miguel, C. Rodríguez de Lope, E. Castillo, and F. Pons de Romero. Inmunocomplejos circulantes en la cirrosis alcohólica. *Gastroenterología y hepatología*, 8(3):127–131, 1985.
38. E. Castillo, A. Fernández-Canteli, V. Esslinger, and B. Thurliman. Discussion to Statistical model for fatigue analysis of wires, strands and cables. *IABSE Bulletin B-36/85*, pages 38-40, 1985.
39. E. Castillo and A. Fernández-Canteli. A statistical model for lifetime analysis. *Elektrika*, 84:5–21, 1986.
40. E. Castillo and J. Galambos. Lifetime regression models based on a functional equation of physical nature. *Journal of Applied Probability*, 24:160–169, 1987.
41. E. Castillo, A. Luceño, A. Montalbán, and A. Fernández-Canteli. A dependent fatigue lifetime model. *Communications in Statistics, Theory and Methods*, 16(4):1181–1194, 1987.
42. E. Castillo, J. Galambos, and J.M. Sarabia. The selection of the domain of attraction of an extreme value distribution from a set of data, proceedings, Oberwolfach, Extreme Value Theory. *Lecture Notes in Statistics*, 51, 1987.
43. E. Castillo. Estadística de valores extremos. distribuciones asintóticas. *Estadística Española*, 29(116):5–34, 1988.
44. E. Castillo and J. Galambos. Conditional distributions and the bivariate normal distribution. *Metrika, International Journal for Theoretical and Applied Statistics*, 36(3):209–214, 1989.
45. E. Castillo and E. Alvarez. A shell structure of probabilistic type for expert systems. *Annales Universitatis scientiarum Budapestinensi de Rolando Eotvos nominatae, Sectio Computatorica*, 10:221–241, 1989.
46. E. Castillo. Discussion to una revisión de resultados recientes en estimación de densidades, by A. Cuevas. *Estadística Española*, 120:45–47, 1989.
47. E. Castillo and J. Galambos. Bivariate distributions with Weibull conditionals. *Analysis Mathematica*, 16(1):3–9, 1990.
48. E. Castillo and E. Alvarez. Uncertainty methods in expert systems. *Microcomputers in Civil Engineering*, 5(1):43–58, 1990.
49. E. Castillo, A. Fernández-Canteli, J.R. Ruiz-Tolosa, and J.M. Sarabia. Statistical models for analysis of fatigue life of long elements. *Journal of Engineering Mechanics (ASCE)*, 116(5):1036–1049, 1990.
50. E. Castillo and J.M. Sarabia. Bivariate distributions with second kind beta conditionals. *Communications in Statistics, Theory and Methods*, 19(9):3433–3445, 1990.
51. E. Castillo, J. Galambos, and J.M. Sarabia. Caracterización de modelos bivariantes con distribuciones condicionadas tipo gamma. *Estadística Española*, 32(124):439–450, 1990.
52. E. Castillo. Book Review: Extreme value theory in engineering, by J. Angus *Technometrics*, 32:107–110, 1990.
53. M. Fernández, E. Castillo, J.A. del Barrio, and E. Alvarez. Los verbos. *Infodidac*, 32(14):45–50, 1991.

54. E. Castillo and J.M. Sarabia. Engineering analysis of extreme value data. *Journal of Waterways, Port, Coastal, and Ocean Engineering*, 118(2):129–146, 1992.
55. E. Alvarez, A. Benczur, E. Castillo, and J.M. Sarabia. The problem of learning concepts. A probabilistic view. *Annales Universitatis Scientiarum Budapestinensis de Rolando Eotvos nominatae, Sectio Computatorica*, 13:179–194, 1992.
56. J.L. Ruiz, M. Perez, E. Castillo, and J.A. Barrio. Calcula conmigo. *Infodidac*, 17:47–53, 1992.
57. E. Castillo, R. Ruiz-Cobo, and C. Alsina. Una metodología para la obtención de tarifas impositivas congruentes. *Hacienda Pública Española*, 122:27–36, 1992.
58. B. Arnold, E. Castillo, and J.M. Sarabia. Multivariate distributions with generalized Pareto conditionals. *Statistics and Probability Letters*, 17:361–368, 1993.
59. M. Fernández, J.A. del Barrio, E. Castillo, and E. Alvarez. Dos programas educativos: Los verbos y calcula conmigo. *InfoDidac*, 123:102–105, 1993.
60. B. Arnold, E. Castillo, and J.M. Sarabia. Conjugate exponential family priors for exponential family likelihoods. *Statistics*, 25:71–77, 1993.
61. E. Castillo and J.M. Sarabia. Extreme value analysis of wave heights. *Journal of Research of the National Institute of Standards and Technology*, 99:445–454, 1994.
62. B. Arnold, E. Castillo, and J.M. Sarabia. A conditional characterization of the multivariate normal distribution. *Statistics and Probability Letters*, 19:313–315, 1994.
63. B. Arnold, E. Castillo, and J.M. Sarabia. Multivariate normality via conditional specification. *Statistics and Probability Letters*, 20:353–354, 1994.
64. E. Castillo, A. Iglesias, J.M. Gutiérrez, and E. Alvarez. Un sistema experto para la elección de la carrera universitaria. *Comunicación Pedagógica, InfoDidac*, 122:55–60, 1994.
65. E. Castillo, A. Cobo, J.M. Gutiérrez, A. Iglesias, and H. Sagástegui. Causal networks models in expert systems. *Journal of Microcomputers in Civil Engineering*, 9:315–328, 1994.
66. F. Jubete and E. Castillo. Linear programming and expert systems. *Journal of Microcomputers in Civil Engineering*, 9:335–345, 1994.
67. E. Castillo, E. Mora, and E. Alvarez. Log-linear models in expert systems. *Journal of Microcomputers in Civil Engineering*, 9:347–357, 1994.
68. E. Alvarez and E. Castillo. Uncertainty measures in expert systems. *Journal of Microcomputers in Civil Engineering*, 9:359–366, 1994.
69. B. Arnold, E. Castillo, and J. M. Sarabia. Conditional characterization of the Mardia multivariate Pareto distribution. *Pakistan Journal of Statistics*, 10:143–145, 1994.
70. E. Castillo, E. Alvarez, A. Cobo, and T. Herrero. An expert system prototype for the analysis of extreme value problems. *National Institute of Standards and Technology, NIST Special Publication*, 866:85–93, 1994. 57pages. ISBN: 84-604-7299-X.
71. E. Castillo and A.S. Hadi. Parameter and quantile estimation for the generalized extreme-value distribution. *Environmetrics*, 5:417–432, 1994.
72. E. Castillo and A.S. Hadi. Modelling lifetime data with applications to fatigue models. *Journal of the American Statistical Association (JASA)*, 90:1041–1054, 1995.

73. E. Castillo, J. M. Gutiérrez, and A.S. Hadi. An introduction to expert systems for medical diagnoses. *Biocybernetics and Biomedical Engineering*, 15:63–84, 1995.
74. E. Castillo and A.S. Hadi. A method for estimating parameters and quantiles of distributions of continuous random variables. *Computational Statistics and Data Analysis*, 20:421–439, 1995.
75. E. Castillo, J.M. Gutiérrez, and A. Iglesias. Solving a functional equation. *The Mathematica Journal*, 5:82–86, 1995.
76. B. C. Arnold, E. Castillo and J. M. Sarabia. General conditional specification models. *Communications in Statistics A, Theory and Methods*, Vol24,1–11, 1995.
77. B. Arnold, E. Castillo, and J.M. Sarabia. Distribution with conditionals in the Pickands-deHaan generalized Pareto family. *Journal of the Indian Association for Productivity, Quality and Reliability (IAPQR Trans.)*, vol. 20, 27-35, 1995.
78. R. Bouckaert, E. Castillo, and J. M. Gutiérrez. A modified simulation scheme for inference in Bayesian networks. *International Journal of Approximate Reasoning*, 14:55–80, 1996.
79. B. Arnold, E. Castillo, and J.M. Sarabia. Specification of distributions by combinations of marginal and conditional distributions. *Statistics and Probability Letters*, Vol. 26:153-157, 1996.
80. B. Arnold, E. Castillo, and J.M. Sarabia. Modelling the fatigue life of longitudinal elements. *Naval Research Logistic Quarterly*, vol. 43, 885-895, 1996.
81. E. Castillo, A. S. Hadi, and C. Solares. Learning and updating of uncertainty in Dirichlet models. *Machine Learning, Volume 26, Page 43-63*, 1996.
82. E. Castillo, J.M. Gutiérrez, and A.S. Hadi. A new method for efficient symbolic propagation in discrete Bayesian networks. *Networks*, Vol. 28, 31-43, 1996.
83. B. Arnold, E. Castillo, and J.M. Sarabia. Priors with convenient posteriors. *Statistics*, 28, 347–354, 1996.
84. B. Arnold, E. Castillo, and J.M. Sarabia. Comparisons of means using conditionally conjugate priors. *Journal of the Indian Society of Agricultural Statistics*, Golden Jub. No. 49, 319-334, 1996-97.
85. E. Castillo, C. Solares, and P. Gómez. Estimating Extreme Probabilities Using Tail Simulated Data. *International Journal of Approximate Reasoning*, Vol 17 (02), 163-190, (1997).
86. E. Castillo, J.M. Gutiérrez, A.S. Hadi, and C. Solares. Symbolic propagation and sensitivity analysis in gaussian bayesian networks with application to damage assessment,. *Artificial Intelligence in Engineering*, 11:173–181, 1997.
87. E. Castillo and A. Iglesias. A package for symbolic solution of real functional equations of real variables. *Aequationes Mathematicae*, 54, 181-198, 1997.
88. E. Castillo, J. M. Gutiérrez, and A. Hadi. Sensitivity Analysis in Discrete Bayesian Networks. *IEEE Transactions on Systems, Man and Cybernetics*, Vol 26, N. 7, 412–423, 1997.
89. E. Castillo and A. Iglesias. Some characterizations of families of surfaces using functional equations. *ACM Transactions on Graphics*, Vol. 16, No. 3, 296–318, 1997.
90. E. Castillo, C. Solares and P. Gómez. High probability one-sided confidence intervals in reliability models. *Nuclear Science and Engineering*, Vol. 126, 158–167, 1997.
91. E. Castillo, J. M. Sarabia and A.S. Hadi. Fitting continuous bivariate distributions to data. *The Statistician, Royal Statistical Society C*, Vol 46, No. 3, 355-369, 1997.

92. E. Castillo and A.S. Hadi. Fitting the generalized Pareto distribution to data. *Journal of the American Statistical Association (JASA)*, 92, 1609-1620, 1997.
93. E. Castillo, C. Solares and P. Gómez. Tail uncertainty analysis in complex systems. *Artificial Intelligence* 96(2), 395-419, 1997.
94. E. Castillo, J.M. Gutiérrez and A.S. Hadi. Modeling Probabilistic Networks of Discrete and Continuous Variables. *Journal of Multivariate Analysis*, Vol 64, No. 1, 48-65, 1998.
95. E. Castillo. Functional Networks. *Neural Processing Letters* 7, 151-159, 1998.
96. E. Castillo and J. M. Gutiérrez. Nonlinear Time Series Modeling and Prediction Using Functional Networks. Extracting Information Masked by Chaos. *Physics Letters A*, Vol. 244, 71-84, 1998.
97. B. C. Arnold, E. Castillo and J. M. Sarabia. The use of conditionally conjugate priors in the study of ratios of gamma scale parameters *Computational Statistics and Data Analysis*, 27, 125-139, 1998.
98. J. M. Sarabia, E. Castillo and D. Slottje. An Ordered Family of Lorenz Curves. *Journal of Econometrics*, 91, 43-60, 1998.
99. B. C. Arnold, E. Castillo and J. M. Sarabia. Some Alternative Gumbel Models. *Environmetrics*, Vol. 9, No. 6, 599-616, 1998.
100. E. Castillo, A. Cobo, A. Fernández-Canteli, F. Jubete and E. Pruneda. Updating Inverses in Matrix Analysis of Structures. *International Journal for Numerical Methods in Engineering*, 43, 1479-1504, 1998.
101. E. Castillo, A. S. Hadi and J. M. Sarabia. A Method for Estimating Lorenz Curves. *Communications in Statistics: Theory and Methods*, Vol 27, no. 8, 2037-2063, 1998.
102. B. Arnold, E.Castillo and J. M. Sarabia. Bayesian Analysis for Classical Distributions Using Conditionally Specified Priors. *Sankhya* B60, 228-245, 1998.
103. E. Castillo, A. Fernández-Canteli and A. S. Hadi On Fitting a Fatigue Model to Data. *International Journal of Fatigue*, 21, 97-106, 1999.
104. E. Castillo, A. Cobo, J. M. Gutiérrez and R. E. Pruneda. Working with Differential, Functional and Difference Equations Using Functional Networks. *Applied Mathematical Modeling*, 23, 89-107, 1999.
105. E. Castillo, J. M. Sarabia-Alegría, J. M. Sarabia-Alzaga and A. M. González. Some Models for Demand Functions with Advertising. *Central European Journal for Operations Research and Economics*, Volume 7, No. 2, 1999.
106. E. Castillo, A. S. Hadi, F. Jubete and C. Solares. An Expert System for Coherent Assessment of Probabilities in Multigraph Models. *Networks*, 33, 193-209, 1999.
107. E. Castillo, J. M. Sarabia, C. Solares and P. Gómez. Uncertainty Analyses in Fault Trees and Bayesian Networks Using FORM/SORM Methods. *Reliability Engineering and System Safety*, Vol 65,29-40, 1999.
108. E. Castillo, J. Ferrándiz and P. Sanmartín. Potential Approach in Marginalizing Gibbs Models. *International Journal of Approximate Reasoning*, 21(3), 257-290, 1999.
109. Castillo, E., Hadi, A. S., and Sarabia, J. M., A Constrained Optimization Method for Fitting Prediction Models, *Journal of Economic and Social Research*, 1, 35-63, 1999.

110. E. Castillo, A. Cobo, J. M. Gutiérrez and R. E. Pruneda. Functional Networks. A New Neural Network Based Methodology. *Computer-Aided Civil and Infrastructure Engineering*, Vol 15, p. 90-106, 2000.
111. E. Castillo, J. M. Gutiérrez, A Cobo and C. Castillo A Minimax Method for Learning Functional Networks. *Neural Processing Letters*, 11,1, 39-49, 2000.
112. E. Castillo, A. Cobo, R. Gómez-Nesterkin and A. Hadi A General Framework for Functional Networks. *Networks*, 35(1), 70-82, 2000.
113. E. Castillo, J. M. Gutiérrez, A. Cobo and C. Castillo Some Learning Methods in Functional Networks. *Computer Aided Civil and Infrastructure Engineering*, 15, 427-439, 2000.
114. B. Arnold, E.Castillo, J. M. Sarabia and L. González-Vega. Multiple Modes in Densities with Normal Conditionals. *Statistics and Probability Letters*, 49, 355-363, 2000.
115. E. Castillo, A. Cobo, F. Jubete, R. E. Pruneda and C. Castillo An Orthogonally Based Pivoting Transformation of Matrices and Some Applications. *SIAM Journal on Matrix Analysis and Applications* 22, no.3, 666-681, 2000.
116. J. M. Sarabia, E. Castillo and D. Slottje An Exponential Family of Lorenz Curves. *Southern Economic Journal*, Vol. 67, No. 3, 748-756, 2001.
117. E. Castillo, J. M. Gutiérrez, A. S. Hadi, and B. Lacruz Some Applications of Functional Networks in Statistics and Engineering. *Technometrics*, Vol 43, No 1, pp. 10-24, 2001.
118. E. Castillo and A. Fernández-Canteli. A General Regression Model For Lifetime Evaluation and Prediction. *International Journal of Fracture*, Vol 107, 2, 117-137, 2001.
119. E. Castillo. Construyendo Modelos y Resolviendo Problemas con Ecuaciones Funcionales. *La Gaceta*, Real Sociedad Matemática Española. Vol 4, 1, 27-66, 2001.
120. E. Castillo, M. Esquivel and R. E. Pruneda. Automatic Generation of Linear Programming Problems for Computer Aided Instruction. *International Journal of Mathematical Education in Science and Technology*, 32, 209-232, 2001.
121. B. C. Arnold, E. Castillo and J. M. Sarabia. Quantification of Incompatibility of Conditional and Marginal information. *Communications in Statistics, Theory and Methods*, Vol. 30, 381-395, 2001.
122. E. Castillo, B. Lacruz, P. Lasala and A. Lekuona. Estimating Transition Probabilities in a Dynamic Model with Unobservable Variables. *IEEE Transactions on Reliability*, 135 -144, 2001.
123. E. Castillo, A. S. Hadi and B. Lacruz. Regression Diagnostics for the Least Absolute Value and the Minimax Methods. *Communications in Statistics. Theory and Methods*, Vol 30, 1197-1226, 2001.
124. E. Castillo S. Mariño and S. G. Tressens. Selecting relevant diagnosis variables using integer programming techniques. *Biocybernetics and Biomedical Engineering*, Vol 1, No. 1, 5-24, 2001.
125. B. C. Arnold, E. Castillo and J. M. Sarabia. A Multivariate Version of Stein's Identity with Applications to Moment Calculations and Estimation of Conditionally Specified Distributions. *Communications in Statistics, Theory and Methods*, Vol. 30, 10, 2517-2542, 2001.
126. B. C. Arnold, E. Castillo and J. M. Sarabia. Conditionally Specified Distributions: An Introduction. *Statistical Science*, 249-274, 2001.
127. B. C. Arnold, E. Castillo and J. M. Sarabia. Compatibility and near compatibility in multiple assessment of Bayesian networks. *Journal of Propagations in Probability and Statistics*, Vol. 2, 2, 161-176, 2002.

128. J. M. Sarabia, E. C. Castillo and D. Slottje. Lorenz Ordering Between McDonald's Generalized Functions of the Income Size Distribution. *Economics Letters*, 75, 265-270, 2002.
129. E. Castillo, F. Jubete, E. Pruneda and C. Solares. Obtaining simultaneous solutions of linear sub-systems of equations and inequalities. *Linear Algebra and its Applications*, 346, 131-154, 2002.
130. E. Castillo, A. S. Hadi, B. Lacruz and J. M. Sarabia. Constrained Mixture Distributions. *Metrika*, 55, 247-269, 2002.
131. B. C. Arnold, E. Castillo and J. M. Sarabia. F Conditionally specified multivariate skewed distributions. *Sankhya*, 64, 2, 206-226, 2002.
132. E. Castillo, O. Fontenla-Romero, B. Guijarro-Berdiñas and A. Alonso-Betanzos A Global Optimum Approach for One-Layer Neural Networks *Neural Computation*, 14(6), 1429-1449, 2002.
133. B. C. Arnold, E. Castillo and J. M. Sarabia. Exact and Near Compatibility of Discrete Conditional Distributions *Computational Statistics and Data Analysis*, 40, 231-252, 2002
134. E. Castillo, A. Fernández-Canteli and R. Mínguez. Computing Failure Probabilities. Applications to Reliability Analysis. *Reliability Engineering and System Safety*, 77(2), 131-14, 2002.
E. Castillo and U. Kjaerulff. Sensitivity Analysis in Gaussian Bayesian networks Using a symbolic-numerical technique. *Reliability Engineering and System Safety*, vol 79/2, 139-148, 2003.
135. B. Arnold, E. Castillo and J. M. Sarabia. Compatibility of Partial or Complete Conditional Probability Specifications. (to appear in the Journal of Statistical Planning and Inference), 2002.
136. E. Castillo, J. Ferrándiz and P. Sanmartín. Temporal Aggregation in Chain Graph Models (sent), 2001.
137. E. Castillo and J. M. Gutiérrez. Separable Functional Networks for Nonlinear Modeling. Application to Noise Reduction and Unmasking Secure Communications. (sent), 2001.
138. B. Arnold, E. Castillo and J. M. Sarabia. An Alternative Definition of Near Compatibility. (sent), 1999.
139. B. Arnold, E. Castillo and J. M. Sarabia. Compatibility and Near Compatibility with Given Marginal and Conditional Information. (sent), 2002.
140. B. Arnold, E. Castillo and J. M. Sarabia. Compatibility and Near Compatibility of Bayesian Networks. (sent), 2002.
141. E. Castillo, M. A. Losada, R. Mínguez, C. Castillo and A. Baquerizo. A New Optimal Engineering Design Method that Combines Safety Factors and Failure Probabilities. Application to Rubblemound Breakwaters, (sent), 2002
142. E. Castillo, R. Mínguez, A. Ruiz-Terán and A. Fernández-Canteli. Engineering Design Using the Probability-Safety-Factor Method. An Application to Wall Design, (sent), 2002.
143. E. Castillo, R. Mínguez, A. Ruiz-Terán and A. Fernández-Canteli. Design of a Composite Beam Using the Failure Probability-Safety Factor Method, (sent), 2002.
144. E. Castillo, D. Ortigosa, A. Conejo, and R. Mínguez A Perturbation Approach to Sensitivity Analysis in Nonlinear Programming, (sent), 2002.
145. E. Castillo, A. Conejo, and R. Mínguez Two Alternative Techniques for Addressing the Failure Probability-Safety Factor Method with Sensitivity Analysis, (sent), 2002.

2. BOOK CHAPTERS

1. E. Castillo and A. S. Hadi. Entry on Functional networks. Encyclopedia of Statistical Sciences. Second Edition. Edited by N. Balakrishnan, C. B. Read and B. Vidakovic. Wiley, To appear in 2003.
2. E. Castillo and A. S. Hadi. Entry on Markov networks. Encyclopedia of Statistical Sciences. Second Edition. Edited by N. Balakrishnan, C. B. Read and B. Vidakovic. Wiley, To appear in 2003.
3. E. Castillo and A. S. Hadi. Entry on Bayesian networks. Encyclopedia of Statistical Sciences. Second Edition. Edited by N. Balakrishnan, C. B. Read and B. Vidakovic. Wiley, To appear in 2003.
4. B. C. Arnold, E. Castillo and J. M. Sarabia. Bayesian Inference Using Conditionally Specified Priors Econometrics. Handbook of Applied Econometrics and Statistical Inference. Marcel Dekker, 2002.
5. E. Castillo and A. S. Hadi Some Probability Concepts for Engineers. in Handbook of of Industrial Automations, (R. L. Shell and E. L. Hall, Eds.), New York: Marcel Dekker, 1–32, 2000.
6. E. Castillo, J. M. Sarabia-Alegría, J. M. Sarabia-Alzaga and A. M. González. Some Demand Functions in a Duopoly Market with Advertising. In *Functional Equations and Inequalities*, edited by Th. Rassias, Kluwer Academic Publishers, 2000, 31–54.
7. E. Castillo. La Seguridad Vista por Eduardo Torroja. In *De la Construcción a la Ciencia. Ayer y Hoy de Eduardo Torroja*, Real Academia de Ciencias y Academia de Ingeniería, 2000, 167–206.
8. E.Castillo, J.M. Gutiérrez, and A.Hadi. Algunas Aplicaciones de las Redes Bayesianas en Ingeniería. In *Sistemas Expertos Probabilísticos*. Universidad de Castilla-La Mancha, Spain, 1998, 265-301.
9. E. Castillo. Extremes in engineering applications. In James Lechner J. Galambos and Emil Simiu, editors, *Extreme Value Theory and Applications*, pages 15–42. Kluwer Academic Publishers, 1994.
10. E. Castillo and J.M. Sarabia. Bivariate distributions with Burr conditionals. In Universidad de Cantabria, editor, *Aportaciones Matemáticas en memoria del Profesor Victor Onieva Alexandre*, pages 105–115. Universidad de Cantabria, 1990.
11. E. Castillo and R. Ruiz-Cobo. The Euler formula for polyhedra and functional equations. In *Volume dedicated to Archimedes on his 2281st birthday*, pages 77–84. World Scientific Publications, Singapore, London, New Jersey, 1992.
12. E. Castillo and R. Ruiz-Cobo. Functional equations and exact discrete solutions of ordinary differential equations. In *Functional Analysis, Approximation Theory and Numerical Analysis. Volume dedicated to S., A. M. Ostrowski and S. M. Ulam*, pages 75–92. World Scientific Publications, Singapore, London, New Jersey, 1994.
13. E. Castillo, A. Fernández-Canteli, and R. Ruiz-Cobo. Design of statistical lifetime models by functional equations. In Janos Galambos and Imre Kátai, editors, *Probability Theory and Applications, Essays:to the Memory of József Mogyoródi*, pages 279–287. Kluwer Academic Publishers, Dordrecht, 1992.

3. PAPER PRSENTED IN CONGRESSES

1. E. Castillo, G.M. Karadi, and R.J. Krizek. Comparison of dispersion characteristics in fissured rock. In *Proceedings of the Second Symposium on the Fundamentals of Transport Phenomena in Porous Media*, volume 2, pages 778–797, Guelph, Ontario, Canada, 1972.

2. E. Castillo. Mathematical model for two-dimensional percolation through fissured rock. In *International Symposium on Rock Mechanics*, volume 1, pages T1D1–T1D7, Stuttgart, 1972.
3. E. Castillo. Influencia del estado inicial, el proceso constructivo y las deformaciones plásticas en la distribución de empujes en estructuras flexibles. In *V European Congress on Soil Mechanics and Foundations*, volume 1, pages 226–228, Madrid, 1972.
4. L. Cañizo, E. Castillo, and C. Sagaseta. Aplicación del método de los elementos finitos en la mecánica del suelo. In *Primeras Jornadas Nacionales sobre aplicaciones de la Informática a la Ingeniería Civil*, volume 1, pages 2–10, 2–20, 1972.
5. E. Castillo and A. Serrano. Detalles de la aplicación práctica del método de los bloques deslizantes. In *Reunión Nacional de Mecánica de Rocas*, Madrid, 3.2-3.16, 1972.
6. E. Castillo. Analisis y cálculo de pantallas continuas y tablestacas con inclusión del proceso constructivo y la variación de empujes debida a las deformaciones del suelo. In *Primeras Jornadas Nacionales sobre aplicaciones de la Informática a la Ingeniería Civil*, volume 1, pages 2–20, 2–27, 1972.
7. E. Castillo. Discusión sobre presas de tierra y escollera. In *International Congress on Large Dams*, pages 492–495, Madrid, 1973.
8. A. Serrano and E. Castillo. A new concept about the stability of rock masses. In *Third International Congress of the Rock Mechanics Society*, pages 820–826, Denver, 1974.
9. E. Castillo and A. Serrano. La aplicación práctica del método de los bloques deslizantes. In *Reuniones sobre Geometría aplicada a la Arquitectura y la Ingeniería Civil*, volume 1, pages 3.1–3.16, 1974.
10. E. Castillo and J. Revilla. The calculus of variations and the stability of slopes. In *Proceedings of the 9th International Conference on Soil Mechanics and Foundations Engineering*, volume 2, pages 25–30, Tokyo, 1977.
11. E. Castillo and J. Revilla. Discussion to stability of slopes. In *Proceedings of the 9th International Conference on Soil Mechanics and Foundations Engineering*, volume 2, pages 415–416, Tokyo, 1977.
12. E. Castillo, M. Losada, and J. Puig-Pey. Probabilistic analysis of the number of waves and their influence on the design wave height of marine structures under dynamic loading. In *Safety of structures under dynamic loading*, Trondheim (Norway), 1977.
13. E. Castillo and A. Luceño. One application of the calculus of variations to bearing capacity of foundations. In *Second International Conference on Applied Numerical Modeling*, pages 1–11, Madrid, 1978.
14. E. Castillo and M.A. Pesquera. Model distribution of scholar population. In *Second International Conference on Applied Numerical Modeling*, pages 1–13, Madrid, 1978.
15. E. Castillo, C. Oteo, Ruiz-Alcaín, and A. Uriel. Influencia del proceso de ejecución del dique seco de Matagorda en las pantallas continuas de cierre. In *Congreso Nacional de Técnicas Sobre Medios de Varada, carga y descarga*, Santander, 1978.
16. J.M. Gómez-Poncela and E. Castillo. Análisis y corrección de posibles defectos de composición y actuación de tribunales calificadoros. In *Revista de la Universidad de Santander*, editor, *VII JHLM*, pages 1025–1050, 1979.
17. J. Puig-Pey, E. Castillo, and E. Moreno. Aproximación de funciones de distribución en las colas, distribuciones de extremos. In *Revista de la Universidad de Santander*, editor, *VII JHLM*, 1979.

18. A. Luceño and E. Castillo. Evaluation of variational methods in slope stability. In *International symposium on landslides*, volume 4, pages 255–258, New Delhi, 1980.
19. E. Mazo, V. Hermosa, J. Baro, E. Castillo, A. Luceño, J.L. Cordovilla, J. Carril, and A. Zubizarreta. Presencia o ausencia de actividad clínica tumoral en pacientes linfomatosos y su correlación con los niveles de ferritina y otros parámetros biológicos. In *Reunión Nacional de la Asociación Española de Hematología y Hemoterapia*, Arrecife de Lanzarote, 1982.
20. E. Castillo, A. Luceño, and J. García-Ortiz. Necessary conditions for minimax partially sequential truncated tests. In *ISA International meeting*, Jerusalem, 1982.
21. E. Castillo, J. A. Díaz-Hernando, and J. Garcia-Ortiz. Sequential hypothesis testing problems and linear programming. In *ISA International meeting*, Jerusalem, 1982.
22. E. Mora, E. Castillo and A. Ascorbe. Influence of stress distribution on the strength of wires, statistical analysis. In *44th Session of ISI*, Madrid, CP. 45.4, 1983.
23. E. Castillo, A. Fernández-Canteli, A. Ascorbe, and E. Mora. The Box-Jenkins model and the progressive fatigue failure of large parallel elements stay-tendons. In *ASI-NATO, Statistical extremes and applications*, Vimeiro, Lisbon, 1983.
24. E. Castillo, A. Ascorbe, and A. Fernández-Canteli. Static progressive failure in multiple tendons. A statistical approach. In *44th Session of ISI (C.P. 45.1)*, CP. 45.1, Madrid, 1983.
25. B. Casanueva, V. Rodríguez-Valverde, A. Vallo, J. Rodríguez-Soriano, E. Castillo, and M. Garcia-Fuentes. Increased number of circulating ig-a producing cells in ig-a nephropathy. In *Sixth International Symposium of Pediatric Nephrology*, Hannover, 1983.
26. E. Castillo and J. Galambos. Modeling and estimation of bivariate distributions with normal conditionals based on their marginals. In *Conference on weighted distributions*, Penn State University, 1985.
27. E. Castillo and E. Alonso. Probabilistic versus deterministic modelling: Filling a gap. In *11th International Conference on Soil Mechanics and Foundations*, volume 1, pages 813–818, San Francisco, 1983.
28. S. Echevarria, G. Rodriguez de Lope, E. Castillo, and F. Pons Romero. Inmuno complejos circulantes en la cirrosis alcohólica. In *Revista Gastro-enterología y Hepatología*, volume 8, pages 127–131, 1985.
29. E. Castillo and J. Galambos. The characterization of a regression model associated with fatigue problems. In *Conference on Weighted Distributions*, Penn. State University, 1986.
30. E. Castillo, A. Montalbán, A. Fernández, and A. Arroyo. Two-step estimation method for a five parameter fatigue weibull regression model. In *The First International Conference on Statistical Computing (ICOSCO-I)*, volume 2, pages 293–308, Cesme, Izmir-Turkey, 1987. American Sciences Press.
31. E. Castillo, J. Rodríguez-Pérez, I. Vi na, and A. Fernández-Canteli. Modelling the random failure of plates and beams under non-constant stress distributions. In *The First International Conference on Statistical Computing (ICOSCO-I)*, volume 1, pages 223–235, Cesme, Izmir-Turkey, 1987. American Sciences Press.
32. E. Castillo and J. Galambos. Bivariate distributions with normal conditionals. In *Proceedings of the IASTED International Symposium : Simulation, Modelling and Development - SMD '87*, pages 59–62, Cairo, 1987. ACTA Press.
33. E. Castillo and E. Alvarez. Some probabilistic environments in expert systems. Technical Report, Universidad de Cantabria, Avda. Castros s/n, 1987.

34. E. Castillo, E. Alvarez, G. Zaballa, and A. Naranjo. Probabilistic models in expert systems. application to medical diagnosis. In *European University Consortium, Apple Computer*, Heidelberg, 1988.
35. E. Castillo, E. Alvarez, G. Zaballa, and A. Naranjo. Un sistema experto para diagnóstico médico. In *JHLM*, Valladolid, 1988.
36. E. Castillo, J.R. Ruiz Tolosa, A. Fernández, and J.M. Sarabia. Modelo markoviano para análisis del problema de fatiga en elementos longitudinales. In *JHLM*, Valladolid, 1988.
37. E. Castillo and J.M. Sarabia. Aproximación penúltima de extremos, aplicación a la distribución uniforme. In *JHLM*, Valladolid, 1988.
38. E. Castillo and E. Alvarez. Entorno probabilístico para utilización en sistemas expertos. In *JHLM*, Valladolid, 1988.
39. E. Castillo, E. Alvarez, G. Zaballa and A. Naranjo. A shell structure of probabilistic type of expert systems. 8-th International Workshop Expert Systems and Their Applications, Avignon, 615–617, 1988.
40. E. Castillo, J. Velasco, J. Vi na, and A. Fernández-Canteli. Statistical modelling approach to the behaviour of large sized glass plates. In *XV International Congress on Glass*, volume 3, pages 235–240, Leningrad, 1989.
41. E. Castillo and E. Alvarez. Uncertainty and learning in expert systems. In *IABSE Colloquium*, pages 83–95, Bergamo, 1989.
42. E. Castillo and J.M. Sarabia. Una familia triparamétrica para aproximar distribuciones de extremos. In *JHLM*, Tenerife, 1989.
43. E. Castillo and J.M. Sarabia. Aplicaciones de la distribución lambda de Tuckey generalizada a problemas de valores extremos. In *XVIII Reunión nacional de Estadística, Investigación Operativa e Informática*, pages 478–482, Santiago, 1989.
44. E. Castillo, E. Alvarez, and J.R. Ruiz-Tolosa. El problema de programación lineal visto como región admisible degenerada. In *JHLM*, Tenerife, 1989.
45. E. Castillo, R. Ruiz-Cobo, and M. Ruiz-Dávila. Resolución numérica de ecuaciones diferenciales mediante una ecuación funcional equivalente. In *JHLM*, Tenerife, 1989.
46. E. Castillo, R. Ruiz-Cobo, and E. Alvarez. Estimación de los parámetros de un modelo multinomial mediante ecuaciones funcionales. In *JHLM*, Evora, 1990.
47. E. Castillo, R. Ruiz-Cobo, and E. Alvarez. Aplicación de las ecuaciones funcionales a sistemas expertos basados en probabilidad. In *JHLM*, Evora, 1990.
48. E. Castillo, R. Ruiz-Cobo, and A. Cobo-Ortega. Caracterización del producto complejo mediante ecuaciones funcionales. In *JHLM*, Evora, 1990.
49. E. Castillo and J.M. Sarabia. Caracterización de distribuciones bivariantes con condicionadas tipo beta. In *JHLM*, Evora, 1990.
50. J.M. Sarabia and E. Castillo. Extensiones bivariantes de la familia logaritmo-exponencial. In *JHLM*, Evora, 1990.
51. M. Fernández-Gómez, E. Castillo, and J. A. del Barrio. Los verbos. In *Encuentros Nacionales sobre las Nuevas Tecnologías en la Educación*, Santander, 1991.

52. M. Cerro, E. Castillo, M.V. Troncoso, and J. A. del Barrio. La enseñanza de la lectura en niños con síndrome de Down. In *Encuentros nacionales sobre las nuevas tecnologías en la Educación*, Santander, 1991.
53. D. Poyo, E. Castillo, B. González, and J. A. Del Barrio. Los complejos. In *Encuentros Nacionales sobre las Nuevas Tecnologías en la Educación*, Santander, 1991.
54. E. Alvarez and E. Castillo. Representación gráfica de curvas en forma explícita. In *Encuentros Nacionales sobre las Nuevas Tecnologías en la Educación*, Santander, 1991.
55. J.L. Ruiz gannan, M. Pérez-Marañón, E. Castillo, and J. A. Del Barrio. Calcula conmigo. In *Encuentros Nacionales sobre las Nuevas Tecnologías en la Educación*, Santander, 1991.
56. E. Castillo, E. Alvarez, E. Mora, and V. Arroyo. Aprender Hypercard e Hypertalk desarrollando una aplicación de lectoescritura. In *Encuentros Nacionales sobre las Nuevas Tecnologías en la Educación*, Santander, 1991.
57. E. Castillo and A. Fernández-Canteli. Statistical models for fatigue analysis of long elements. In International Association for Bridge and Structural Engineering, editors, *Proceedings of the IABSE Workshop*, pages 15–32, El Paular, Madrid, 1992.
58. B. Arnold, E. Castillo, and J.M. Sarabia. Conditionally specified models: Structure and inference. In *Seventh International Conference on Multivariate Analysis*, pages 441–450 Barcelona, 1992.
59. E. Castillo, A. Iglesias, J.M. Gutiérrez, and E. Alvarez. Un sistema experto para la elección de la carrera universitaria. In *I Congreso Macintosh y Educación*, pages 375–383, Barcelona, 1993.
60. M. Fernández, J. A. del Barrio, E. Castillo, and E. Alvarez. Dos programas educativos: Los verbos y calcula conmigo. In *I Congreso Macintosh y Educación*, pages 87–103, Barcelona, 1993.
61. E. Castillo, J.M. Gutiérrez, and A. Iglesias. El programa Mathematica aplicado a la docencia. In *I Congreso Macintosh y Educación*, pages 157–171, Barcelona, 1993.
62. J.I. Alvaro, E. Alvarez, and E. Castillo. Enseñanza asistida del sistema diédrico de representación. In *I Congreso Macintosh y Educación*, pages 173–185, Barcelona, 1993.
63. E. Castillo, E. Alvarez, A. Cobo, and M.T. Herrero. Sistema experto para el análisis de valores extremos. In *I Congreso Macintosh y Educación*, pages 339–354, Barcelona, 1993.
64. B. Arnold, E. Castillo, and J.M. Sarabia. Classical and bayesian analysis of fatigue strength data. In *IABSE Workshop on Length Effect on Fatigue of Wires and Strands*, volume 66, pages 89–97, 1993.
65. B. Arnold, E. Castillo, and J.M. Sarabia. A variation on the conditional specification theme. In *49th Session of ISI*, pages 51–52, Firenze, 1993. Bulletin of the International Statistical Institute.
66. A. Fernández-Canteli, E. Castillo, and A. Arguelles. Length effect on fatigue of wires and prestressing steels. In *IABSE Workshop on Length Effect on Fatigue of Wires and Strands*, volume 66, pages 125–135, 1993.
67. E. Castillo, A. Cobo, and F.C. Dolz. Sistema para la resolución simbólica de ecuaciones funcionales. In *Jornadas sobre Nuevas Tecnologías en la Enseñanza de las Matemáticas en la Universidad*, Universidad Politécnica de Valencia, 1993.
68. E. Castillo, E. Alvarez, A. Cobo, and M.T. Herrero. An expert system prototype for the analysis of extreme value problems. In J. Galambos, J. Lechner, E. Simiu, and C. Hagwood), editors, *Extreme value theory and applications. Proceedings of the Conference on Extreme Value Theory and Its Applications, Volume 3*, pages 85–93, Gaithersburg (USA), 1994. National Institute of Standards and Technology, Special Publication 866.

69. E. Castillo and J.M. Sarabia. Extreme value analysis of wave heights. In *Conference on Extreme Value Theory and Its Applications*, Gaithersburg (USA), 1993. NIST (National Institute of Standards and Technology).
70. E. Castillo. Extremes in engineering applications, extreme value theory and applications. In J. Galambos, J. Lechner, E. Simiu, and N. Macri, editors, *Proceedings of the Conference on Extreme Value Theory and Applications*, pages 15–42, Gaithersburg Maryland 1993, 1994. Kluwer Academic Publishers.
71. E. Castillo and A. Iglesias. Some applications of functional equations to the characterization of families of surfaces. In D. Lasser, editor, *CAGD'94 1st Peruvian Workshop on Computer Aided Geometric Design*, pages 153–169, Aachen, 1994. Verlag Shaker.
72. E. Castillo, E. Alvarez, A. Cobo, and M.T. Herrero. Sistema experto para el análisis estadístico de valores extremos. In *Unimac 94, Vol. III*, pages 367–374, Madrid, 1994.
73. E. Castillo, J.M. Gutiérrez, and A.S. Hadi. Generación automática de código simbólico para sistemas expertos en Mathematica. In *Unimac 94, Volume III*, pages 383–390, Madrid, 1994.
74. E. Castillo, J.M. Gutiérrez, and A.S. Hadi. BNetworks: una concha para sistemas expertos basados en redes bayesianas. In *Unimac 94, Volume III*, pages 375–382, Madrid, 1994.
75. A. Cobo, A. Alvarez, F.C. Dolz, and E. Castillo. Una aplicación para la resolución formal de ecuaciones funcionales. In *Unimac 94, Volume I*, pages 53–60, Madrid, 1994.
76. E. Castillo and A. Hadi. Parameters and quantiles estimation for continuously distributed random variables. In *Proceedings of the Statistical Computing Section, The American Statistical Association*, pages 284–289, 1994.
77. L. Salvador, A. García, E. Castillo, J.M. Gutiérrez, and A Iglesias. Aplicación de sistemas expertos a la orientación universitaria. In *Congreso Nacional sobre Orientación y Evaluación Educativa*, La Coruña, 1995.
78. E. Castillo, A. Hadi, and J.M. Sarabia. Statistical analysis of extreme waves. In *14th International Conference on Offshore Mechanics and Arctic Engineering, OMAE'95*, volume 2, pages 33–40, 1995.
79. E. Castillo, R. Bouckaert, J.M. Sarabia, and C. Solares. Error estimation in approximate bayesian belief network inference. In *Proceedings of the Eleventh Conference on Uncertainty in Artificial Intelligence (UAI'95)*, volume 2, pages 55–62, San Francisco, California, 1995. Morgan Kaufmann Publishers.
80. E. Castillo, J.M. Gutiérrez, and A Iglesias. Un paquete para la resolución simbólica de un tipo de ecuaciones funcionales. In *TEMU*, 73-83, 1995.
81. E. Castillo, J.M. Gutiérrez, and A.S. Hadi. Parametric structure of probabilities in Bayesian networks. In *Lecture Notes in Artificial Intelligence 946, Proceedings of the European Conference on Symbolic and Quantitative Approaches to Reasoning and Uncertainty, ECSQARU'95*, pages 89–98, Copenhagen, 1995.
82. L. Salvador, A. García, E. Castillo, J.M. Gutiérrez, and A Iglesias. Aplicación de sistemas expertos a la orientación universitaria. In *Congreso Nacional sobre Orientación y Evaluación Educativa*, pages 89–98, La Coruña, 1995.
83. E. Castillo, A Iglesias, and A. Cobo. A package for solving functional equations. In *Proceedings of the International Mathematica Symposium IMS'95*, pages 85–92, Southampton, 1995.

84. E. Castillo and J. M. Gutiérrez and A. S. Hadi. Symbolic propagation in discrete and continuous Bayesian networks. In *Proceedings of the International Mathematica Symposium IMS'95*, pages 77–84, Southampton, 1995.
85. E. Castillo, A. Iglesias, and A. Cobo. Symbolic treatment of functional equations. In *33rd. International Symposium on Functional Equations*, Caldas de Malavella, Spain, 1995.
86. E. Castillo, A. Hadi, and J. M. Sarabia. A method for estimating lorenz curves. In *Actas del 22 Congreso Nacional de Estadística e Investigación Operativa*, pages 131–132, Sevilla, 1995.
87. J. M. Sarabia and E. Castillo. Estimación de la distribución de Durling-Pareto con medidas repetidas. In *Actas del 22 Congreso Nacional de Estadística e Investigación Operativa*, pages 255–256, Sevilla, 1995.
88. E. Castillo, P. Gómez and C. Solares. Un programa multiplataforma para análisis de árboles de fallos en Java. In *Unimac 96*, 1996.
89. E. Castillo, A. Cobo, P. Gómez, C. Solares and C. Castillo. Un Sistema experto para el control de semáforos en Java. In *Unimac 96*, Power Science, No. 6, 6, 1996.
90. E. Castillo, J. M. Gutiérrez, and A. Hadi. Goal oriented symbolic propagation in bayesian networks. In *Proceedings of the Thirteenth National Conference on Artificial Intelligence (AAAI'96)*., Portland (Oregon), 1263–1268, 1996.
91. E. Castillo, C. Solares, and P. Gómez. Tail sensitivity analysis in bayesian networks. In *Proceedings of the Twelfth Conference on Uncertainty in Artificial Intelligence (UAI'96)*, Portland (Oregon), Morgan Kaufmann Publishers, San Francisco, California, 133–140, 1996.
92. J. M. Sarabia and E. Castillo. Análisis bayesiano multidimensional usando distribuciones a priori especificadas condicionalmente. XXIII Congreso Nacional de Estadística e Investigación Operativa, Valencia, 1997.
93. E. Castillo, J. M. Sarabia, C. Solares, and P. Gómez. Uncertainty Analyses Using an Improved Fast Probability Integration Method. *The Eighth International Conference on Environmetrics*, Innsbruck, Austria, 1997.
94. B. C. Arnold, E. Castillo and J. M. Sarabia. Some alternative bivariate Gumbel models. *The Eighth International Conference on Environmetrics*, Innsbruck, Austria, 1997.
95. E. Castillo, J. M. Gutiérrez and A. S. Hadi. Improving Search-Based Inference in Bayesian Networks. Application to the MAP Problem. *The Eighth International Conference on Environmetrics*, Innsbruck, Austria, 1997.
96. A. Fernández-Canteli, M. J. Lamala, M. A. García-Prieto and E.Castillo.. Sobre la evaluación de resultados dispersos de fatiga estadísticamente no homogéneos. *XIV Encuentro del grupo español de fractura.*, Ribadesella, España, 1997.
97. E. Castillo, J. M. Gutiérrez and A. S. Hadi. Combining Multiple Direct Graphical Representations into a Single Probabilistic Model. *CAEPIA '97*, Torremolinos, Málaga, Spain, 645–651.
98. J. M. Sarabia and E. Castillo. Una Jerarquía de Curvas de Lorenz Basada en la Distribución de Wakeby. ASEPULT97.
99. J. M. Sarabia and E. Castillo. Análisis Bayesiano multidimensional usando distribuciones a priori especificadas condicionalmente. ASEPULT97. Congreso Nacional de Estadística e Investigación Operativa, 1997, pag. 37.3-37.4.

100. J. M. Sarabia and E. Castillo. Curvas de Lorenz de Pareto Generalizadas. Aplicación al Estudio de la Desigualdad y la Pobreza en España, 1998 ASEPELT98.
101. J. M. Sarabia, E. Castillo and D. Slottje. An Exponential Family of Lorenz Curves. American Statistical Association Meeting, 1998, Dallas, Texas.
102. E. Castillo and J. M. Gutiérrez. A Comparison of Functional Networks and Functional Networks. IASTED International Conference on Artificial Intelligence and Soft Computing, 1998, Cancún, Mexico.
103. E. Castillo, A. Cobo, R. E. Pruneda and J. M. Sarabia. The Generalized Autodistributy Functional Network. Applications to Statistical Problems. Proceeding of the IASTED International Conference on Artificial Intelligence and Soft Computing, 1998, Cancún, Mexico, 443-446.
104. E. Castillo and J. M. Gutiérrez and A. S. Hadi. Improving Search-Based Inference in Bayesian Networks. With Application to the MAP Problem. *Flairs98*, Florida, 1998.
105. E. Castillo, J. Ferrándiz and P. Sanmartín. Marginalizing in Undirected Graph and Hypergraph Models. In *Proceedings of the Fourteen Conference on Uncertainty in Artificial Intelligence (UAI'98)*, Madison (Wisconsin), Morgan Kaufmann Publishers, San Francisco, California, 1998.
106. E. Castillo, A. Cobo, A. Fernandez-Canteli and E. Pruneda. Learning and Solving Difference and Differential Equations with Neural and Functional Networks. Joint meeting of the World Multiconference on Systemics, Cybernetics and Informatics (SCI'98) and the 4th International Conference on Information Systems Analysis and Synthesis (ISAS'98), Orlando, USA, 1998, 515-520.
107. Castillo, E., Iglesias, A., Gutiérrez, J. M., Alvarez, E. and Alvaro, J. I. Functional networks: An application to fitting surfaces. Joint meeting of the World Multiconference on Systemics, Cybernetics and Informatics (SCI'98) and the 4th International Conference on Information Systems Analysis and Synthesis (ISAS'98), Orlando, USA, 1998, 579-585.
108. Arnold, B. C., Castillo, E. and Sarabia, J. M. Quantification of Incompatibility of Conditional and Marginal information. *Conference on Recent Advances in Probability and Statistics*, Greece, 1999.
109. Fernández-Canteli, A., López Aenlle, M., Lamela, M. J. and Castillo, E. Análisis Estadístico y Predicción de vida a fatiga de materiales compuestos de fibra de carbono. AEMAC, Actas del Tercer Congreso Nacional de Materiales Compuestos, Benalmádena, 137-145, 1999.
110. Fernández-Canteli, A., López Aenlle, M., Lamela, M. J. and Castillo, E. Análisis estadístico y predicción de vida a fatiga en materiales compuestos de fibra de carbono. Asociación Española de Materiales Compuestos, 137-145, 1999.
111. Castillo, E., Fraile, A., Alarcón, E. and Fernández-Canteli, A. Reliability Analysis Based on Adimensional Parameters. Foresight and Precaution, ESREL 2000, SRA-Europe Annual Conference, Edinburgh, Scotland, UK., 1513-1518, 2000. (14-18/05/2000)
112. Fernández-Canteli, A., López Aenlle, M., Lamela, M. J. and Castillo, E. A Statistical Model for Evaluation of Random Fatigue Data. EIS. Fatigue endurance assessment of materials, components and structures. Cambridge. EMAS, 123-130, 2000. (10-12/04/2000)
113. Castillo, E., López Aenlle, M., Lamela, M. J. and Fernández-Canteli, A. Evaluation of fatigue life data by normalizing procedures. ECF 13. European Conference on Fracture. Fracture Mechanics Applications and Challenges. San Sebastian. CD-(6 pages), 2000. (6-9/09-2000)
114. Castillo, E, Cobo, A. and Castillo, C. Functional networks in engineering. Proceedings of the Second International Workshop on AI and Mathematical Methods in Pavement and Geomechanical Systems. University of Delaware. Balkema, Rotterdam, Netherlands, 2000, pp 21-35.

115. López Aenlle, M., Fernández-Canteli, A., Lamela, M. J. and Castillo, E. Estrategia para la planificación de ensayos en programas experimentales de fatiga. Presentado al XVII Encuentro del GrupoEspañol de Fractura, Bayona 2001. (28-30/03/2001)
116. López Aenlle, M., Fernández-Canteli, Castillo, E. and Lamela, M. J. Predicción de vida a fatiga en materiales compuestos de fibra de carbono bajo carga de amplitud variable". Presentado al XVII Encuentro del Grupo Español de Fractura, Bayona 2001. (28-30/03/2001)
117. E. Castillo, J. M. Gutiérrez, A. S. Hadi, and B. Lacruz Some Applications of Functional Networks in Statistics and Engineering. Technometrics invited paper session. 161st ASA Statistical Meeting, Atlanta, 2001.
118. Castillo, E., Hadi, A., and Lacruz, B. Optimal Transformations in Multiple Linear Regression Using Functional Networks Proceedings of the International WorkConference on Artificial and natural Neural Networks. IWANN 2001, Granada. Lecture Notes in Computer Science 2084, Part I, pp 316-324, 2001.
119. Castillo, E., Fontenla, O., Guijarro, B. and Alonso, A. A measure of noise immunity for functional networks. Proceedings of the International WorkConference on Artificial and natural Neural Networks. IWANN 2001. Lecture Notes in Computer Science 2084, Part I, pp 293-300, 2001.
120. Castillo, E., Kjærulff, U. and van der Gaag, L. Sensitivity Analysis in Gaussian Networks. Proceedings of SAMO 2001. CIEMAT, Madrid, 2001.
121. Castillo, E. Fernández-Canteli, A. and Mínguez, R. Approximating Extreme Probabilities in reliability analyses using polytopes. Proceedings of SAMO 2001. CIEMAT, Madrid, 2001.
122. Arnold, B. C., R. J. Beaver, E. Castillo and J. M. Sarabia. Goodness of fit tests based on record data and generalized ranked set data. Proceedings of the Conference GOF2001 Honoring Karl Pearson: June, 2001, Paris, Birkhauser, Berlin, 143-157.
123. Castillo, E., Fernández-Canteli, A. and Mínguez, R. Calculating probabilities of failure associated with n-dimensional spaces using polytopes. European Safety and Reliability International Conference, ESREL 2001, Torino, Italy, 2001.
124. Castillo, E., Fernández-Canteli, A., López Aenlle, M. and Lamela, M. J. Sensitivity analysis of a general fatigue model. Congreso Portugués de Fractura. Vila Real, 2002, 71-79.
125. Castillo, E. and Mínguez, R. A new slope stability approach using calculus of variations, and safety and sensitivity analysis. Geotechnical Materials : Measurement & Analysis, 2002.
126. Castillo, E. , Ortigosa, D. and Hadi, A. S. Sensitivity Analysis Using Duality Approaches. SAMO, 2002, Venice.
127. Castillo, E. and Mínguez, R. A Design Method Combining Safety Factors, Probabilities of Failure and Sensitivity Analysis. Applications to Civil Engineering. SAMO, 2002, Venice.
128. Fontenla-Romero, O., Erdogmus, D., Principe, J. C., ALonso, A. and Castillo, E. Accelerating the convergence speed of neural networks learning methods using least squares. ESANN (European Symposium on Artificial Neural Networks). 2002.
129. Erdogmus, D., Fontenla-Romero, O., Principe, J. C., ALonso, A. and Castillo, E. Accurate initialization of neural networks weights by backpropagation of the desired response. IJCNN (International Joint Conference on Neural Networks) 2002.