

Curriculum Vitae

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RELATED LINKS:

Homepage: <http://wp.kntu.ac.ir/mmjamei/>

Book: <https://link.springer.com/book/10.1007/978-3-030-32820-7>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=8986465600>

ISI: <https://www.webofscience.com/wos/author/record/2172917>

Google Scholar: <https://scholar.google.com/citations?user=5w20CUcAAAAJ&hl=en>

PERSONAL DATA: Born August 23, 1974, in Tehran, Iran. Male, Married (Two children)

EDUCATION:

PhD in Applied Mathematics, Amirkabir University of Technology, Iran, 2008

PhD in Computational Mathematics, Kassel University, Germany, 2006

MSc in Applied Mathematics, K.N.Toosi University of Technology, Tehran, Iran, 1999

Title of PhD Thesis (2008):

Construction of New Interpolation Formulas and Functions Expansions Using Linear Operators and their Application in Numerical Quadratures and Solving Some Functional Equations

Title of PhD Thesis (2006):

Some New Classes of Orthogonal Polynomials and Special Functions: A Symmetric Generalisation of Sturm-Liouville Problems and its Consequences

PhD STUDENTS:

- F. Soleyman (2017), Thesis: Some new finite classes of q-orthogonal polynomials and their properties.

- Z. Moallemi (2018), Thesis: A Generalization of Lagrange Interpolation and Its Applications.
- M. R. Beyki (2018), Thesis: A Bivariate Extension of Bernoulli Polynomials and Applications.

M.SC. STUDENTS:

- S. Panahi, (2011).
- S. Fakhravar, (2011).
- F. Soleyman, (2012).
- M. Sadeghi, (2012).
- F. Butimar, (2013).
- P. Nazari, (2013).
- R. Pourkhanali, (2013).
- F. Mirzaee-Gaskaree, (2013).
- T. Azar, (2014).
- R. Ghasemi, (2014).
- T. Ghayoumi, (2014).
- S. Rashnoie, (2015).
- N. Dorostkar, (2015).
- N. Rezvani, (2015).
- A. Faghieh, (2016).
- M. Gholinejad, (2016).
- A. Madahian, (2016).
- F. Honarvar, (2016).
- A. Seidy, (2017).
- H. Shajirati, (2020).
- M. Mehdikhanloo, (2020).
- E. Zare Mehrjardi, (2020).
- E. Gharloghi, (2020).
- F. Ghomi, (2021).
- M. Mokhtari, (2021).

RESEARCH INTERESTS

Numerical Analysis and Computational Mathematics including:

- Orthogonal polynomials and Special functions,
- Integral transforms,
- Inequalities,
- Interpolation and Approximation,
- Numerical integration.

AWARDS

Research Scholar of the Alexander von Humboldt Foundation, Germany- Kassel University (2017-2019).



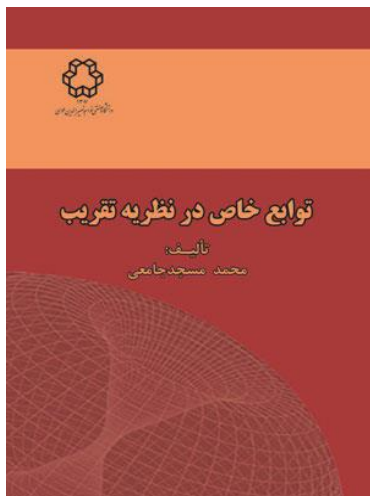
BOOKS

1. Special Functions and Generalized Sturm-Liouville Problems (Springer)



<https://link.springer.com/book/10.1007/978-3-030-32820-7>

2. Special Functions in Approximation Theory (in Persian)



<http://publication.kntu.ac.ir/>

LIST OF PUBLICATION

134. Mohammad Masjed-Jamei, A generic inequality for basic special functions, *Integral Transforms and Special Functions*, 2022, To appear.
133. Mohammad Masjed-Jamei, A generic refinement to the Cauchy-Schwarz inequality, *Publications de l'Institut Mathématique*, 2022, To appear.
132. Mohammad Masjed-Jamei, Z. Moalemi, Nasser Saad, *On All Symmetric and Nonsymmetric Exceptional Orthogonal XI-Polynomials Generated by a Specific Sturm–Liouville Problem*, *Mathematics*, 2022, volume 10 (14), Article 2464.
131. G.V. Milovanović, M. Masjed-Jamei, Z. Moalemi, *Weighted nonstandard quadrature formulas based on values of linear differential operators*, *Journal of Computational and Applied Mathematics*, 2022, volume 409, Article 114162.
130. Mohammad Masjed-Jamei, G.V. Milovanović, M.C. Dağlı, *A generalization of the array type polynomials*, *Mathematica Moravica*, 2022, volume 26, pages 37-46.
129. Mohammad Masjed-Jamei, Zahra Moalemi, *Sine and cosine types of generating functions*, *Applicable Analysis and Discrete Mathematics*, 2021, volume 15, pages 82-105.

128. E. Guldogan Lekesiz, R. Aktaş, M. Masjed-Jamei, *Fourier transforms of some finite bivariate orthogonal polynomials*, *Symmetry*, 2021, volume 13, Article 452.
127. H. H. Homeier, H. M. Srivastava, M. Masjed-Jamei, Z. Moalemi, *Some Weighted Quadrature Methods Based Upon the Mean Value Theorems*, *Mathematical Methods in the Applied Sciences*, 2021, volume 44, pages 3840-3856.
126. Mohammad Masjed-Jamei, M. R. Beyki, *On a bivariate kind of q -Euler and q -Genocchi polynomials*, *Ukrainian Mathematical Journal*, 2021, volume 73, pages 77-88.
125. Mohammad Masjed-Jamei, H. M. Srivastava, *Some expansions of functions based upon two sequences of Hypergeometric polynomials*, *Quaestiones Mathematicae*, 2021, volume 44, pages 17-36.
124. Mohammad Masjed-Jamei, G.V. Milovanović, *Generalized hypergeometric identities with extra parameters*, *Filomat*, 2020, volume 34, pages 3483-3494.
123. H. M. Srivastava, M. Masjed-Jamei, R. Aktaş, *Analytical solutions of some general classes of differential and integral equations by using the Laplace and Fourier transforms*, *Filomat*, 2020, volume 34, pages 2869-2876.
122. Mohammad Masjed-Jamei, Nasser Saad, Wolfram Koepf, F. Soleyman, *On the finite orthogonality of q -Pseudo-Jacobi polynomials*, *Mathematics*, 2020, volume 8, Article 1323.
121. Mohammad Masjed-Jamei, Wolfram Koepf, Daniel D. Tcheutia, *A finite sequence of Hahn-type discrete orthogonal polynomials*, *Journal of Difference Equations and Applications*, 2020, volume 26, pages 952–965.
120. Mohammad Masjed-Jamei, Z. Moalemi, Wolfram Koepf, *A unified representation for some interpolation formulas*, *Analysis*, 2020, volume 40, pages 113-125.
119. Mohammad Masjed-Jamei, Z. Moalemi, Nasser Saad, *Incomplete symmetric orthogonal polynomials of finite type generated by a generalized Sturm-Liouville Theorem*, *Journal of Mathematical Physics*, 2020, volume 61, Article no. 023501, <https://doi.org/10.1063/1.5124117>.
118. Mohammad Masjed-Jamei, Z. Moalemi, H. M. Srivastava, Ivan Area, *Some Modified Adams-Bashforth Methods Based Upon the Weighted Hermite Quadrature Rules*, *Mathematical Methods in the Applied Sciences*, 2020, volume 43, pages 1380-1398.
117. Mohammad Masjed-Jamei, F. Soleyman, Wolfram Koepf, *Two finite sequences of symmetric q -orthogonal polynomials generated by two q -Sturm-Liouville problems*, *Reports on Mathematical Physics*, 2020, volume 85, pages 41-55.

116. Mohammad Masjed-Jamei, M. R. Beyki, Wolfram Koepf, *An extension of the Euler-Maclaurin quadrature formula using a parametric type of Bernoulli polynomials*, Bulletin des Sciences Mathématiques, 2019, volume 156, Article 102798.
115. Esra Guldogan, Rabia Aktas, Mohammad Masjed-Jamei, *On Finite Classes of Two-Variable Orthogonal Polynomials*, Bulletin of the Iranian Mathematical Society, 2020, volume 46, pages 1163-1194.
114. Mohammad Masjed-Jamei, *A Symmetric Sequence of Trigonometric Orthogonal Functions*, Reports on Mathematical Physics, 2019, volume 83, pages 393-406.
113. H. M. Srivastava, M. Masjed-Jamei, M. R. Beyki, *Some New Generalizations and Applications of the Apostol-Bernoulli, Apostol-Euler and Apostol-Genocchi Polynomials*, Rocky Mountain Journal of Mathematics, 2019, volume 49, pages 681-697.
112. Mohammad Masjed-Jamei, Z. Moalemi, W. Koepf, H. M. Srivastava, *An Extension of the Taylor Series Expansion by Using the Bell Polynomials*, Rev. Real Acad. Cienc. Exactas Fís. Natur. Ser. A Mat. (RACSAM), 2019, volume 113, pages 1445-1461.
111. Mohammad Masjed-Jamei, Gradimir V. Milovanović, Z. Moalemi, *A generalization of divided differences and applications*, Filomat, 2019, volume 33, pages 193-210.
110. Mohammad Masjed-Jamei, Wolfram Koepf, *A new identity for generalized hypergeometric functions and applications*, Axioms, 2019, volume 8, Article 12.
109. Mohammad Masjed-Jamei, Wolfram Koepf, *Two finite hypergeometric sequences of discrete orthogonal polynomials*, Journal of Difference Equations and Applications, 2018, volume 24, pages 1429-1443.
108. Mohammad Masjed-Jamei, Gradimir V. Milovanović, *An extension of Pochhammer's symbol and its application to hypergeometric functions, Part II (Additive case)*, Filomat, 2018, volume 32, pages 6505-6517.
107. Mohammad Masjed-Jamei, M. R. Beyki, *Weighted quadrature rules with binomial nodes, (in Persian)*, Journal of New Researches in Mathematics, 2018, volume 15, pages 141-150.
106. F. Soleyman, P. N. Sadjang, M. Masjed-Jamei, I. Area, *(p,q) -Sturm-Liouville problems and their orthogonal solutions*, Mathematical Methods in the Applied Sciences, 2018, volume 41, pages 8997-9009.
105. H. M. Srivastava, M. Masjed-Jamei, M. R. Beyki, *A parametric type of the Apostol-Bernoulli, Apostol-Euler and Apostol-Genocchi polynomials*, Applied Mathematics and Information Sciences, 2018, volume 12, pages 907-916.

104. Mohammad Masjed-Jamei, Wolfram Koepf, *Some summation theorems for generalized hypergeometric functions*, *Axioms*, 2018, volume 7, Article 38.
103. Mohammad Masjed-Jamei, F. Soleyman, *A decomposition formula for bivariate hypergeometric-trigonometric series*, *Turkish Journal of Mathematics and Computer Science*, 2018, volume 8, pages 10-15.
102. Mohammad Masjed-Jamei, Z. Moalemi, Ivan Area and J. J. Nieto, *A new type of Taylor series expansion*, *Journal of Inequalities and Applications*, 2018, volume 2018, Article 116.
101. Mohammad Masjed-Jamei, Z. Moalemi, *A modification of Newton's method using Gauss-Legendre quadrature rules*, *Tamap Journal of Mathematics and Statistics*, 2018, volume 2018, Article 24.
100. Mohammad Masjed-Jamei, M. R. Beyki, Edward Omei, *On a parametric kind of Genocchi polynomials*, *Journal of Inequalities and Special Functions*, 2018, volume 9, pages 68-81.
99. Mohammad Masjed-Jamei, M. R. Beyki and Wolfram Koepf, *A New Type of Euler Polynomials and Numbers*, *Mediterranean Journal of Mathematics*, 2018, volume 15, Article 138.
98. Mohammad Masjed-Jamei, Gradimir V. Milovanović, A.H. Salehi Shayegan, *On weighted Adams-Bashforth rules*, *Mathematical Communications*, 2018, volume 23, pages 127-144.
97. Mohammad Masjed-Jamei, F. Soleyman, I. Area, J. J. Nieto, *Two finite q -Sturm-Liouville problems and their orthogonal polynomial solutions*, *Filomat*, 2018, volume 32, pages 231–244.
96. Mohammad Masjed-Jamei, Iván Area, *A note on weighted quadrature rules*, *Mathematical Methods in the Applied Sciences*, 2017, Volume 40, Pages 6103-6113.
95. Iván Area, Mohammad Masjed-Jamei, *A class of symmetric q -orthogonal polynomials with four free parameters*, *Bulletin des Sciences Mathématiques*, 2017, volume 141, pages 785-801.
94. Mohammad Masjed-Jamei, A.H. Salehi Shayegan, *A numerical method for solving Riccati differential equations*, *Iranian Journal of Mathematical Sciences and Informatics*, 2017, volume 12, pages 51-71.
93. F. Soleyman, M. Masjed-Jamei, I. Area, *A finite class of q -orthogonal polynomials corresponding to inverse gamma distribution*, *Analysis and Mathematical Physics*, 2017, volume 7, pages 479-492.
92. Mohammad Masjed-Jamei, F. Soleyman, I. Area, J. J. Nieto, *On (p,q) - classical orthogonal polynomials and their characterization theorems*, *Advances in Difference Equations*, 2017, volume 2017, Article 186.

91. F. Soleyman, Ivan Area, M. Masjed-Jamei, J.J. Nieto, *Representation of (p,q) - Bernstein polynomials in terms of (p,q) - Jacobi polynomials*, Journal of Inequalities and Applications, 2017, volume 2017, Article 167.
90. Mohammad Masjed-Jamei, Wolfram Koepf, *Symbolic computation of some power-trigonometric series*, Journal of Symbolic Computation, 2017, volume 80, pages 273-284.
89. Mohammad Masjed-Jamei, Gradimir V. Milovanović, *Construction of Gaussian quadrature formulas for even weight functions*, Applicable Analysis and Discrete Mathematics, 2017, volume 11, pages 177-198.
88. Mohammad Masjed-Jamei, Gradimir V. Milovanović, *An extension of Pochhammer's symbol and its application to hypergeometric functions*, Filomat, 2017, volume 31, pages 207-215.
87. Mohammad Masjed-Jamei, Gradimir V. Milovanović, *Weighted Hermite quadrature rules*, Electronic Transactions on Numerical Analysis, 2016, volume 45, pages 476-498.
86. Mohammad Masjed-Jamei, Iván Area, *Error bounds for Gaussian quadrature rules using linear kernels*, International Journal of Computer Mathematics, 2016, volume 93, pages 1505-1523.
85. Mohammad Masjed-Jamei, Edward Omey, Sever S. Dragomir, *A Main Class of Integral Inequalities with Applications*, Mathematical Modelling and Analysis, 2016, volume 21, pages 569-584.
84. Mohammad Masjed-Jamei, Edward Omey, *On some statistical and probabilistic inequalities*, Journal of Inequalities and Special Functions, 2016, volume 7, pages 49-76.
83. Mohammad Masjed-Jamei, Edward Omey, *Improvement of Some Classical Inequalities*, Journal of Inequalities and Special Functions, 2016, volume 7, pages 18-28.
82. M. R. Eslahchi, Mohammad Masjed-Jamei, *On q -interpolation formulae and their applications*, Electronic Transactions on Numerical Analysis, 2016, volume 45, pages 58-74.
81. Mohammad Masjed-Jamei, *Unified error bounds for all Newton-Cotes quadrature rules*, Journal of Numerical Mathematics, 2015, volume 23, pages 67-80.
80. M. R. Eslahchi, Mohammad Masjed-Jamei, *Some applications of a hypergeometric identity*, Mathematical Sciences, 2015, volume 9, pages 215-223.
79. Mohammad Masjed-Jamei, M. A. Jafari, H. M. Srivastava, *Some Applications of the Stirling Numbers of the First and Second Kind*, Journal of Applied Mathematics and Computing, 2015, Volume 47, pages 153-174.

78. Mohammad Masjed-Jamei, *New Error Bounds for Gauss-Legendre Quadrature Rules*, Filomat, 2014, Volume 28, pages 1281–1293.
77. Iván Area, Mohammad Masjed-Jamei, *A Symmetric Generalization of Sturm-Liouville Problems in q -difference Spaces*, Bulletin des Sciences Mathématiques, 2014, Volume 138, Pages 693-704.
76. Mohammad Masjed-Jamei, Sever S Dragomir, *An analogue of the Ostrowski Inequality and applications*, Filomat, 2014, volume 28, pages 373-381.
75. Mohammad Masjed-Jamei, Sever S Dragomir, *A Generalization of the Ostrowski-Grüss Inequality*, Analysis and Applications, 2014, Volume 12, pages 117–130.
74. Mohammad Masjed-Jamei, Francisco Marcellan, Edmundo J. Huertas, *A Finite Class of Orthogonal Functions Generated by Routh-Romanovski Polynomials*, Complex Variables and Elliptic Equations, 2014, Volume 59, pages 162-171.
73. M. A. Kutbi, N. Hussain, A. Rafiq, M. Masjed-Jamei, *Generalized Chebyshev Inequalities with Applications*, Journal of Computational Analysis and Applications, 2014, Volume 16, pages 763-776.
72. A. Zakeri, M. Masjed-Jamei, A. H. Salehi Shayegan, *A Numerical Method for Optimal Control-state Problem with Bivariate B-spline Basis*, Journal of Mathematics and Computer Science, 2014, volume 8, pages 215-222.
71. Mohammad Masjed-Jamei, Iván Area, *A basic class of symmetric orthogonal polynomials of a discrete variable*, Journal of Mathematical Analysis and Applications, 2013, volume 399, pages 291-305.
70. Mohammad Masjed-Jamei, *A certain class of weighted approximations for integrable functions and applications*, Numerical Functional Analysis and Optimization, 2013, volume 34, pages 1224-1244.
69. Mohammad Masjed-Jamei, Iván Area, *A Symmetric Generalization of Sturm-Liouville Problems in Discrete Spaces*, Journal of Difference Equations and Applications, 2013, volume 19, pages 1544-1562.
68. Mohammad Masjed-Jamei, Nawab Hussain, *On orthogonal polynomials and quadrature rules related to second kind of Beta distribution*, Journal of Inequalities and Applications, 2013, 2013:157, DOI: 10.1186/1029-242X-2013-157.
67. Mohammad Masjed-Jamei, Wolfram Koepf, *Two finite classes of orthogonal functions*, Applicable Analysis, 2013, Volume 92, pages 2392-2403.

66. Mohammad Masjed-Jamei, Wolfram Koepf, *On generating symmetric orthogonal polynomials*, Complex Variables and Elliptic Equations, 2013, Volume 58, pages 1373-1385.
65. Mohammad Masjed-Jamei, Gradimir V. Milovanovic, M. A. Jafari, *Closed expressions for coefficients in weighted Newton-Cotes quadratures*, Filomat, 2013, volume 27, pages 649-658.
64. Mohammad Masjed-Jamei, Marwan A. Kutbi, Nawab Hussain, *Some New Estimates for the Error of Simpson Integration Rule*, Abstract and Applied Analysis, Volume 2012, Article ID 239695, 9 pages.
63. Mohammad Masjed-Jamei, Nawab Hussain, *More results on a functional generalization of the Cauchy-Schwarz inequality*, Journal of Inequalities and Applications, 2012, 2012:239, DOI: 10.1186/1029-242X-2012-239.
62. Mohammad Masjed-Jamei, Wolfram Koepf, *Two classes of special functions using Fourier transforms of generalized ultraspherical and generalized Hermite polynomials*, Proceedings of the American Mathematical Society, 2012, volume 140, pages 2053-2063.
61. Mohammad Masjed-Jamei, *A linear constructive approximation for integrable functions and a parametric quadrature model based on a generalization of Ostrowski-Grüss type inequalities*, Electronic Transactions on Numerical Analysis, 2011, volume 38, pages 218-232.
60. Mohammad Masjed-Jamei, Wolfram Koepf, *Computing two special cases of Gauss hypergeometric function*, Creative Mathematics and Informatics, 2011, volume 20, pages 137-146.
59. Mohammad Masjed-Jamei, *Inequalities for Two Specific Classes of Functions Using Chebyshev Functional*, Filomat, 2011, volume 25, issue 4, pages 153-163
58. Mohammad Masjed-Jamei, Gradimir V. Milovanovic, M. A. Jafari, *Explicit forms of Weighted Quadrature Rules with Geometric Nodes*, Mathematical and Computer Modelling, 2011, volume 53, pages 1133-1139.
57. Mohammad Masjed-Jamei, Sever S. Dragomir, *A new generalization of the Ostrowski inequality and applications*, Filomat, 2011, volume 25, issue 1, pages 115-123.
56. Mohammad Masjed-Jamei, Wolfram Koepf, *On incomplete symmetric orthogonal polynomials of Laguerre type*, Applicable Analysis, 2011, volume 90, pages 769-775.
55. Mohammad Masjed-Jamei, *A Main inequality for several special functions*, Computers and Mathematics with Applications, 2010, volume 60, pages 1280-1289.
54. Mohammad Masjed-Jamei, *A Generalization of the Cauchy-Schwarz inequality with eight free parameters*, Journal of Inequalities and Applications, Volume 2010, Article ID 705168, 9 pages.

53. Mohammad Masjed-Jamei, *On Relationships Between Classical Pearson Distributions and Gauss Hypergeometric Function*, Acta Applicandae Mathematicae, 2010, volume 109, pages 401-411.
52. Mohammad Masjed-Jamei, H. M. Srivastava, *Application of a new integral expansion for solving a class of functional equations*, Applied Mathematics Letters, 2010, volume 23, pages 421-425.
51. Mohammad Masjed-Jamei, *On constructing new expansions of functions using linear operators*, Journal of Computational and Applied Mathematics, 2010, volume 234, issue 2, pages 365-374.
50. Mohammad Masjed-Jamei, *A basic class of symmetric orthogonal functions with six free parameters*, Journal of Computational and Applied Mathematics, 2010, volume 234, issue 1, pages 283-296.
49. Mohammad Masjed-Jamei, Wolfram Koepf, *On incomplete symmetric orthogonal polynomials of Jacobi type*, Integral Transforms and Special Functions, 2010, volume 21, pages 655–662.
48. Mohammad Masjed-Jamei, Feng Qi, H.M Srivastava, *Generalizations of some classical inequalities via a special functional property*, Integral Transforms and Special Functions, 2010, volume 21, issue 5, pages 327-336.
47. K. Aghigh, M. Masjed-Jamei, *A note on finite quadrature rules with a kind of Freud weight function*, Mathematical Problems in Engineering, volume 2009, Art. ID 421546, 8 pp.
46. Mohammad Masjed-Jamei, *A functional generalization of the Cauchy–Schwarz inequality and some subclasses*, Applied Mathematics Letters, 2009, volume 22, pages 1335-1339.
45. Mohammad. Masjed-Jamei, S. S. Dragomir, H. M. Srivastava, *Some generalizations of the Cauchy-Schwarz and the Cauchy-Bunyakovsky inequalities involving four free parameters and their applications*, Mathematical and Computer Modelling, 2009, volume 49, pages 1960-1968.
44. Mohammad Masjed-Jamei, *Error control process in function interpolation using statistical spline Model*, Mathematical and Computer Modelling, 2009, volume 49, pages 1483-1493.
43. Mohammad Masjed-Jamei, H.M. Srivastava, *An integral expansion for analytic functions based upon the remainder values of the Taylor series expansions*, Applied Mathematics Letters, 2009, volume 22, pages 406- 411.
42. Mohammad Masjed-Jamei, Mehdi Dehghan, *A Generalization of Fourier Trigonometric Series*, Computers and Mathematics with Applications, 2008, volume 56, pages 2941- 2947.

41. Mohammad Masjed-Jamei, Mehdi Dehghan, H.M. Srivastava, *A Functional Expansion for Analytic Functions and Its Subclasses*, Integral Transforms and Special Functions, 2008, volume 19, no.12, pages 913 - 922.
40. K. Aghigh, M. Masjed-Jamei, Mehdi Dehghan, *A survey on third and fourth kind of Chebyshev polynomials and their applications*, Applied Mathematics and Computation, 2008, volume 199, issue 1, pages 2-12.
39. Mohammad Masjed-Jamei, *Biorthogonal exponential sequences with weight function $\exp(ax^2 + ibx)$ on the real line and an orthogonal sequence of trigonometric functions*, Proceedings of the American Mathematical Society, 2008, volume 136, number 2, pages 409-417.
38. Mohammad Masjed-Jamei, *On constructing new interpolation formulas using linear operators and an operator type of quadrature rules*, Journal of Computational and Applied Mathematics, 2008, volume 216, issue 2, pages 307-318.
37. Mohammad Masjed-Jamei, *A basic class of symmetric orthogonal functions using the extended Sturm-Liouville theorem for symmetric functions*, Journal of Computational and Applied Mathematics, 2008, volume 216, issue 1, pages 128-143.
36. Mohammad Masjed-Jamei, *A basic class of symmetric orthogonal polynomials using the extended Sturm-Liouville theorem for symmetric functions*, Journal of Mathematical Analysis and Applications, 2007, volume 325, issue 2, pages 753-775.
35. Mohammad Masjed-Jamei, *A generalization of classical symmetric orthogonal functions using a symmetric generalization of Sturm-Liouville problems*, Integral Transforms and Special Functions, 2007, volume 18, issue 12, pages 871-883.
34. Mohammad Masjed-Jamei, *A new type of weighted quadrature rules and its relation with orthogonal polynomials*, Applied Mathematics and Computation, 2007, volume 188, issue 1, pages 154-165.
33. Mohammad Masjed-Jamei, Mehdi Dehghan, *A probabilistic model for quadrature rules*, Applied Mathematics and Computation, 2007, volume 187, issue 2, pages 1520-1526.
32. Wolfram Koepf, Mohammad Masjed-Jamei, *Two Classes of Special Functions Using Fourier Transforms of Some Finite Classes of Classical Orthogonal Polynomials*, Proceedings of the American Mathematical Society, 2007, volume 135, number 11, pages 3599-3606.
31. Wolfram Koepf, Mohammad Masjed-Jamei, *A generic formula for the values at the boundary points of monic classical orthogonal polynomials*, Journal of Computational and Applied Mathematics, 2006, volume 191, issue 1, pages 98-105.

30. Wolfram Koepf, Mohammad Masjed-Jamei, *A generic polynomial solution for the differential equation of hypergeometric type and six sequences of classical orthogonal polynomials related to it*, *Integral Transforms and Special Functions*, 2006, volume 17, issue 8, pages 559–576.
29. Wolfram Koepf, Mohammad Masjed-Jamei, *A Generalization of Student's t -distribution from the Viewpoint of Special Functions*, *Integral Transforms and Special Functions*, 2006, volume 17, issue 12, pages 863–875.
28. Mohammad Masjed-Jamei, Mehdi Dehghan, *Application of zero eigenvalue for solving the Potential, Heat and Wave equations using a sequence of special functions*, *Mathematical Problems in Engineering*, 2006, volume 2006, issue 1, pages 1-9.
27. M. Masjed-Jamei, M.R. Eslahchi, M. Dehghan, *A statistical approach for economization of the polynomial functions*, *International journal of Computer Mathematics*, 2006, volume 83, pages 511–523.
26. M. Masjed-Jamei, Mehdi Dehghan, *On some statistical integral equations*, *Applied Mathematics and Computation*, 2006, volume 179, Issue 1, pages 87-91.
25. M. Masjed-Jamei, S.M. Hashemiparast, M.R. Eslahchi, Mehdi Dehghan, *The second kind Chebyshev quadrature rules of semi-open type and its numerical improvement*, *Applied Mathematics and Computation*, 2006, volume 172, issue 1, pages 210-221.
24. K. Aghigh, M. Masjed-Jamei, Mehdi Dehghan, *On numerical integration methods with the generalized Stieltjes weight function*, *Applied Mathematics and Computation*, 2006, volume 182, issue 2, pages 1184-1190.
23. K. Aghigh, M. Masjed-Jamei, Mehdi Dehghan, *A symmetric sequence of orthogonal polynomials associated with the Stieltjes–Wigert polynomials*, *Applied Mathematics and Computation*, 2006, volume 182, issue 1, pages 194-199.
22. S.M. Hashemiparast, M. Masjed-Jamei, Mehdi Dehghan, *On selection of the best coefficients in interpolatory quadrature rules*, *Applied Mathematics and Computation*, 2006, volume 182, issue 2, pages 1240-1246.
21. S.M. Hashemiparast, M. Masjed-Jamei, M.R. Eslahchi, Mehdi Dehghan, *The second kind Chebyshev–Newton–Cotes quadrature rule (open type) and its numerical improvement*, *Applied Mathematics and Computation*, 2006, volume 180, issue 2, pages 605-613.
20. Mehdi Dehghan, M. Masjed-Jamei, M.R. Eslahchi, *Weighted quadrature rules with weight function $x^{-p} \exp(-1/x)$ on $[0, \infty)$* , *Applied Mathematics and Computation*, 2006, volume 180, issue 1, pages 1-6.

19. Mehdi Dehghan, M. Masjed-Jamei, M.R. Eslahchi, *On numerical improvement of open Newton–Cotes quadrature rules*, Applied Mathematics and Computation, 2006, volume 175, issue 1, pages 618-627.
18. E. Babolian, M. Masjed-Jamei, M.R. Eslahchi, Mehdi Dehghan, *On numerical integration methods with T-distribution weight function*, Applied Mathematics and Computation, 2006, volume 174, issue 2, pages 1314-1320.
17. S.M. Hashemiparast, M.R. Eslahchi, Mehdi Dehghan, M. Masjed-Jamei, *The first kind Chebyshev–Newton–Cotes quadrature rules (semi-open type) and its numerical improvement*, Applied Mathematics and Computation, 2006, volume 174, issue 2, pages 1020-1032.
16. Mohammad Masjed-Jamei, Mehdi Dehghan, *On Rational Classical Orthogonal Polynomials and their Application for Explicit Computation of Inverse Laplace Transforms*, Mathematical Problems in Engineering, 2005, volume 2005, issue 2, pages 215-230.
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TAUGHT COURSES

Special functions, Numerical Analysis (Advanced), Calculus I & II, Ordinary differential Equations