CURRICULUM VITAE

1. PERSONAL INFORMATION:

| FULL NAME | : | Prof. Edamana Vasudevan Krishnan | |
|-----------------------------|---|----------------------------------|--|
| DATE OF BIRTH | : | 18-9-1952 | |
| NATIONALITY | : | Indian | |
| MARITAL STATUS | : | Married with 2 sons | |
| DATE OF APPOINTMENT AT SQU: | | 14-11-1987 | |
| POSITION: | | Professor | |

2. QUALIFICATIONS:

| DEGREE | INSTITUTION | DATE |
|------------------|--|------|
| B.Sc. | University of Calicut | 1971 |
| (Mathematics) | | |
| M.Sc. | University of Calicut | 1973 |
| (Mathematics) | | |
| Ph.D. (Nonlinear | Indian Institute of Science, Bangalore | 1979 |
| Waves) | | |

3. EMPLOYMENT HISTORY

| <u>Dates</u> | Level of Appointment | Organisation |
|---------------------|----------------------|--|
| Jan.79-Sept.80 | Research Assistant | Dept. of Mathematics, UMIST England |
| Sept.80-Apr.81 | Research Associate | Dept. of Physics, Eindhoven University of Technology Netherlands |
| 29-4-81 - 11-7-82 | Lecturer II | Dept. of Mathematics, University of Benin, |
| 12-7-82 - 30-9-85 | Lecturer I | Dept of Mathematics, University of Benin, |
| 01-10-85 - 28-10-87 | Senior Lecturer | Dept. of Mathematics University of Benin, Nigeria |
| 14-11-87 – 4-6-99 | Assistant Professor | Dept. of Mathematics & Statistics, SOU, S. of Oman. |
| 5-6-99 - 26-5-08 | Associate Professor | Dept. of Mathematics & Statistics, SOU, S. of Oman. |
| 27-5-08 – To date | Professor | Dept. of Mathematics & Statistics, SQU, S. of Oman. |

4. ADMINISTRATIVE DUTIES:

Textbooks officer 1988-1990 Timetable officer Spring 91, 1991-92, 1992-93, Fall 93 Curriculum Committee 1991 to 1997, 2009-2010 Graduate committee representing Applied Mathematics 1996-97 Co-ordinator for college of Commerce & Economics since Fall 94 to Fall 97 DOMAS representative of the Geophysics Degree Steering Committee 1997-2002 DOMAS Board Secretary 1997-2001 Academic advisor of pre-major students for many years, still in progress Academic advisor for Mathematics majors of 2015 cohort Examinations Committee 2001-2002 College Board 2002-2008, 2014-2015 College Promotions Committee 2002-2003, 2010-2012 DOMAS Appointments Committee 2002-2007, 2010-2017 Deputy Head of Department 2004-2008 Staff-Student Liaison Committee 2004-2007 Acting Head of DOMAS 23-10-2004 to 29-10-2004, 16-07-2005 to 26-08-2005, 21-1-2006 to 27-1-2006, 26-5-2007 to 6-6-2007, 24-5-2008 to 18-6-2008, DOMAS Promotions Committee 2005-2007. 2009-till date Chairman of the Adhoc Committee to write a report on the comments of the External Assessors for Mathematics and Statistics in DOMAS, 2005 Took active part in the revision of DOMAS course coordination manual Chairman of the Adhoc Committee to write a report on the comments of the External Assessor/Examiner for Mathematics in DOMAS, 2006 Member of the Adhoc committee for the Programme Outcomes of the B.Sc. degree in Mathematics for DOMAS Area coordinator for the Foundation Program in Mathematics Sept. 2009 - 2016 Member of the College of Science Foundation Program Committee 2009-2016 Member of the College of Science Strategic Plan Implementation Committee 2009-2016 Acting Assistant Dean in August 2011 Annual Report Committee since 2012 Chairman of Best Teacher Award Committee 2010-2013 Strategic Plan committee departmental representative for the decision of priorities of initiatives for the strategies in the 2020-2040 strategic plan MSc program coordinator of the Dept of Mathematics since 2019 Graduate Studies Committee of the Dept. of Mathematics since 2019 College Graduate Studies Committee since 2019

5. RESEARCH INTERESTS:

- 1. Homotopy methods for finding approximate solutions of nonlinear systems of PDEs and nonlinear Schrodinger type equations.
- 2. Analytical methods such as Riccati equation method, Elliptic function methods etc. to derive soliton solutions in optics governed by nonlinear Schrodinger type equations.

6. INTERNATIONAL CONFERENCES AND SCIENTIFIC VISITS:

1. Delivered a talk on "Travelling wave solutions of nonlinear evolution equations" in the Second International Conference on Differential Equations and Applications held at the Saint-Petersburg State Technical University, Russia, June 15-20, 1998.

- 2. Delivered a talk on "Regular and singular solutions of nonlinear wvolution equations" in the First International Conference on Mathematical Sciences held at U.A.E. University, Al-Ain, November 21-24, 1999.
- 3. Delivered a talk on "Phase space analysis of some nonlinear evolution equations" in the Conference in Mathematical Analysis and Applications held at American University of Sharjah, United Arab Emirates, May 2-4, 2001.
- 4. Delivered a talk on "Lie group of transformations for a KdV-Boussinesq equation" in the International Congress of Mathematicians (ICM-2002) held in Beijing, Aug. 20-28, 2002.
- 5. Delivered a talk on "Exact travelling wave solutions for a class of nonlinear partial differential equations" in the International conference on Differential Equations and Mathematical Physics (UAB05) held in University of Alabama, Birmingham, USA, Mar, 29 Apr. 2, 2005.
- 6. Delivered a talk on "Extended mapping method for some nonlinear evolution equations" in the third UAE Math Day, UAE University, Al-Ain, UAE, 7th May, 2005.
- 7. Delivered a talk on "Some exact solutions of the (2+1) dimensional Kadomtsev-Petviashvili equation, Mathematical Methods in Engineering International Symposium, Cankaya University, Ankara, Turkey, April 27-29, 2006.
- 8. Delivered a talk on "Exact solutions using Lame function and Weierstrass elliptic function", International Conference on modelling and optimization of structures, processes and systems, University of Kwazulu-Natal, Durban, South Africa, 22-24 January, 2007.
- 9. Delivered a Key note speech on "Growth of Sultan Qaboos University With special reference to Mathematics and Statistics, Learning Technologies and Mathematics Middle East Conference, Sultan Qaboos University, 31st March to 2nd April, 2007.
- Delivered a 45 minute talk on "Applications of elliptic functions to nonlinear evolution equations", The fifth world congress of nonlinear analysts, Florida Institute of Technology, Orlando, Florida, USA, 2nd July-9th July, 2008. Also, chaired the session Recent Advances in Differential Equations and Their Applications on 2nd July, 2008.
- 11. Visited Prof. Yan-ze Peng, School of Mathematics and Statistics, Wuhan University, China from 29th Sept. 2008 to 5th Oct. 2008 under the internal research grant SCI/DOMS/07/03.
- 12. Delivered a talk on "Exact Weierstrass elliptic function solutions of higher order KdV-mKdV equations" in the 4th international conference on research and education in mathematics, Universiti Putra, Kuala Lumpur, Malaysia, 21st Oct- 23rd Oct, 2009.
- 13. Delivered a talk on "Application of Lame functions to solve nonlinear evolution equations" in the international conference on PDE and Applications, Kairouan, Tunisia, 4th Nov- 6th Nov, 2010.
- 14. Delivered a talk on "Elliptic function solutions of some nonlinear evolution equations" in the International Conference on Applied Mathematics and Computer Sciences, ICAMCS 2011, 28th 30th September, 2011, Singapore.
- 15. Co-organiser of the special session on "Physical aspects of nonlinear differential equations" in the International conference on mathematical problems in Engineering, aerospace and sciences, Technical University, Vienna, Austria, July 10-14, 2012. Chaired a session and delivered a talk on "Solitary wave solutions of coupled wave equations".
- 16. Delivered a talk on "Jacobi and Weierstrass elliptic function solutions of D(m,n) equation" in the international conference on Mathematical, Statistical and Computational Sciences, Madrid, Spain, March 28-29, 2013.
- 17. Delivered a talk on "Mapping methods to solve a modified Korteweg-de Vries type equation" in the international conference on computational and applied mathematics, London, UK, October 24-25, 2014. Chaired a session on "Application of higher order ODEs".
- 18. Delivered a talk on "Mapping methods to solve a nonlinear Schrodinger type equation" in the international conference on computational and applied mathematics, London, UK, October 23-24, 2015. Chaired a session on "Analytical methods in PDEs".
- 19. Delivered a talk on "Elliptic function methods to solve optical soliton perturbation equation with quadratic-cubic nonlinearity" in the International conference on mathematical problems in Engineering, aerospace and sciences, Yerevan, Armenia, July 3-6, 2018, Chaired a session on "Solitons in optical fibres."

7. EDITORIAL BOARD:

I am a member of the editorial board for three journals, (i) International Journal of Pure and Applied Mathematical Sciences, (ii) Global Journal of Mathematics and Mathematical Sciences, (iii) Nonlinear Dynamics and Systems Theory.

I have been a referee for the last several years and have refereed many articles for many international journals.

8. RESEARCH PUBLICATIONS:

- 1. E.V.Krishnan, An appendix to the paper 'Approximation of the perturbation equations of a quasilinear hyperbolic system in the neighbourhood of a bicharacteristic', J.Math.Anal.Applics. **60**, 716-720(1977).
- 2. Phoolan Prasad and E.V.Krishnan, Nonlinear wave propagation in a two-dimensional steady transonic flow, J.Fluid Mech. **82**, 17-28(1977).
- 3. Phoolan Prasad and E.V.Krishnan, A note on the Korteweg de Vries equation for the propagation of fast ion-acoustic waves in multi-dimensions, Phys.letts. **62A**, 483(1977).
- 4. Phoolan Prasad and E.V.Krishnan, On multi-dimensional packets of surface waves, J.Phys.Soc.Japan 44, 1028-1032(1978).
- 5. E.V.Krishnan, An exact solution of the classical Boussinesq equation, J.Phys.Soc.Japan **51**, 2391-2392(1982).
- 6. E.V.Krishnan, On classical Boussinesq equation, J.Phys.Soc.Japan **51**, 3413-3414(1982).
- 7. E.V.Krishnan, Slow modulation of periodic waves in rotating fluids, Il Nuovo Cimento **78B**, 263-270(1983).
- 8. E.V.Krishnan, On the exact solution of certain nonlinear dispersive wave equations, J.Phys.Soc.Japan 53, 947-949(1984).
- 9. E.V.Krishnan, On Sawada Kotera equations, Il Nuovo Cimento **92B**, 23-26(1986).
- 10. E.V.Krishnan, On the Ito-type coupled nonlinear wave equation, J.Phys.Soc.Japan 55, 3753-3755(1986).
- 11. E.V.Krishnan, On Shallow water waves, Acta Physica Hungarica **68**, 189-192(1990).
- 12. E.V.Krishnan, Remarks on a system of coupled nonlinear wave equations, J.Math.Phys. **31**, 1155-1156(1990).
- E.V.Krishnan and I.A.Eltayeb, Steady helical dynamos, Geophys. Astrophys. Fluid Dynamics 60, 408(1991).
- 14. E.V.Krishnan, Travelling wave solutions of density dependent diffusion equations, Acta Physica Hungarica **72**, 193-202(1992).
- 15. E.V.Krishnan, On the phenomenon of wave breaking, Arch of Mech. 45, 773-778(1993).
- 16. E.V.Krishnan, Exact solutions of reaction-diffusion equation, J.Phys.Soc.Japan 62, 1076-1077(1993).
- 17. E.V.Krishnan, On some diffusion equations, J.Phys.Soc.Japan 63, 460-465(1994).
- 18. E.V.Krishnan, Exact solution of the linearized shallow water wave equations of variable depth, Modelling, Measurement and Control **56**, 29-36(1994).
- 19. E.V.Krishnan, A direct method to solve nonlinear dispersive wave equations, Advances in Modeling and Analysis 23, 23-38(1995).
- 20. E.V.Krishnan, Hyperbolic function solutions for some nonlinear evolution equations, Advances in Modeling and Analysis **24**, 26-40(1995).
- 21. E.V.Krishnan, Phase space analysis and the series method, Advances in Modeling and Analysis **24**, 53-63(1995).
- 22. B.S.Bhatt and E.V.Krishnan, Group invariant solutions of unsteady flow equations, Advances in Modeling and Analysis **29**, 1-10(1995).
- 23. E.V.Krishnan and B.S.Bhatt, Group invariant solutions of a nerve conduction equation, Il Nuovo Cimento **110B**, 1177-1182(1995).
- 24. E.V.Krishnan, Invariant solutions of a diffusion-convection equation, Modelling, Measurement & Control **64**, 57-64(1997).

- 25. E.V.Krishnan, Travelling wave solutions of nonlinear evolution equations, Proceedings of the Second International Conference on Differential Equations and Applications held at the Saint-Petersburg State Technical University, Russia (Ed. G. Osipenko), 57-64 (1998).
- 26. E.V.Krishnan and Mohamed Al-Lawatia, On weakly nonlinear shallow water wave equations, Differential Equations and Control Processes **4**, 34-48 (1998).
- 27. E.V.Krishnan and Q.J.A.Khan, Lie group of transformations for magma equations, Differential Equations and Control Processes **4**, 49-59 (1998).
- 28. E.V.Krishnan and K.N.Pad, On infrasound radiation of shallow water waves, Czech J. of Physics **49**, 131-135(1999).
- 29. E.V.Krishnan, Weak solutions of magma equations, Il Nuovo Cimento, **114B**, 173-179 (1999).
- E.V. Krishnan and K.N. Pad, Progressive oscillations on sloping beaches, Czech J. of Phys., 50, 687–691,2000.
- 31. E.V.Krishnan, R.P.Jaju and G. Osipenko, Kink-antikink solutions of a nerve conduction equation, Differential Equations and Control Processes, **4**, 18-25(2000).
- 32. E.V. Krishnan and Q.J.A. Khan, Higher order KdV type equations and their stability, International Journal of Math. and Math. Sciences, **27**, 215-220, 2001.
- 33. E.V. Krishnan, Elliptic Function solutions of the Sine-Gordon equation and the Dodd-Bullough equation, Il Nuovo Cimento, **116B**, 1249-1253, 2001.
- 34. Q.J.A. Khan, E.V. Krishnan and M.A. Al-Lawatia, A stage structure model for the growth of a population involving switching and cooperation, ZAMM, **82**, 125-135, 2002.
- 35. Q.J.A. Khan and E.V. Krishnan, An epidemic model with a time delay in transmission, Applications of Mathematics, **48**, 193-203, 2003.
- 36. E.V. Krishnan and Q.J.A. Khan, Lie group of transformations for a KdV-Boussinesq equation, Czechoslovak J. of Phys., **53**, 99-105, 2003.
- 37. E.V. Krishnan, Isomorphic Lie Algebras of the infinitesimal generators, International J. of Pure and Appl. Math., **8**, 43-53, 2003.
- 38. E.V. Krishnan, A direct method of solution of the Kuramoto-Sivashinski equation, International Journal of Applied Mathematics, **14**, 11-18, 2003.
- 39. E.V. Krishnan, Series solutions for a coupled wave equation, International Journal of Differential Equations and Applications, **8**, 13-22, 2003.
- 40. E.V. Krishnan, Exact solutions of a magma equation using series method , International J. of Diff. Equns and Applics, **9**, 279-287, 2004.
- 41. I.A. Eltayeb, E.A. Hamza, J.A. Jervase, E.V. Krishnan and D.E. Loper, Compositional convection in the presence of a magnetic field, Part 1: A single interface, Proc. Roy. Soc. London, **460**, 3505-3528, 2004.
- 42. I.A. Eltayeb, E.A. Hamza, J.A. Jervase, E.V. Krishnan and D.E. Loper, Compositional convection in the presence of a magnetic field, Part 2: Cartesian plume, Proc. Roy. Soc. London, **461**, 2605-2633, 2005.
- 43. E.V. Krishnan and Yan-ze Peng, A new solitary wave solution for the new Hamiltonian amplitude equation, J. of Phys. Soc. Japan, **74**, 896-897, 2005.
- 44. E.V. Krishnan and Yan-ze Peng, Exact solution of some nonlinear evolution equations using Weierstrass elliptic function method, International J. of Pure and Applied Math Sc., 2, 14-22, 2005.
- 45. Yan-ze Peng and E.V. Krishnan, The singular manifold method and exact periodic wave solutions to a restricted BLP dispersive long wave system, Reports on Math. Phys., **56**, 367-378, 2005.
- 46. Yan-ze Peng and E.V. Krishnan, Exact travelling wave solutions to the (3+1)- dimensional Kadomtsev-Petviashvili equation, Acta Physica Polonica, **108**, 421-428, 2005.
- 47. Yan-ze Peng and E.V. krishnan, Two classes of new exact solutions to the (2+1) dimensional breaking soliton equation, Comm. Theor. Phys., 44, 807-809,2005.
- 48. E.V. Krishnan and Zhenya Yan, Doubly periodic solutions of some nonlinear evolution equations using sinh-Gordon equation expansion method, Diff eqns and control processes, 9, 51-63, 2005.
- 49. E.V. Krishnan and Yan-ze Peng, Exact solutions to the combined KdV-mKdV equation by the extended mapping method , Physica Scripta, **73**, 405-409, 2006.

- 50. E.V. Krishnan and Yan-ze Peng, Squared Jacobian elliptic function solutions for the (2+1)-D KdV equation , Advances in Theoretical and Applied Mathematics, **1**, 9-25, 2006.
- 51. Yan-ze Peng and E.V. Krishnan, Exact travelling wave solutions for a class of nonlinear partial differential equations, International J. of Pure and Applied Math Sc., **3**, 11-20, 2006.
- 52. E.V. Krishnan and Zhenya Yan, Jacobian elliptic function solutions using sinh-Gordon equation expansion method, International J. of Applied Mathematics and Mechanics, **2**, 1-10, 2006.
- 53. E.V. Krishnan, Some exact solutions of the (2+1)-dimensional Kadomtsev-Petviashvili equation, Proceedings of Mathematical Methods in Engineering International Symposium, Ankara, Turkey, April 27-29, 2006, pp. 180-187, **Springer Verlag**, 2006.
- 54. Yan-ze Peng and E. V. Krishnan, New exact solution for the cubic-quintic nonlinear Schrodinger equation, Communications in Mathematical Sciences, **5**, 243-252, 2007.
- 55. A. Khater, M.M. Hassan, E.V. Krishnan, and Yan-ze Peng, Applications of elliptic functions to ion-acoustic plasma waves, European Physical Journal D, **50**, 177-184, 2008.
- 56. Yan-Ze Peng, E.V. Krishnan and Hui Feng, Travelling-wave like solutions of the Zakharov-Kuznetsov equation with variable coefficients, Pramana – Journal of Physics, **71**, 49-55, 2008.
- 57. Yan-ze Peng, Hui Feng and E.V. Krishnan, A diversity of localized structures in a (2+1)dimensional KdV equation, Applied Mathematical Modelling, **33**, 1842-1849, 2009.
- 58. E.V. Krishnan and Yan-ze Peng, Jacobi elliptic function solutions using Lame functions, Annals of Mathematical Physics, **2**, 7-13, 2009.
- 59. E.V. Krishnan and Y. Peng, Doubly periodic wave solutions of higher order KdV-mKdV equations, J of Pure and Appl Math: Advances and Applics, **1**, 183-197, 2009.
- 60. E.V. Krishnan and Y. Peng, Exact travelling wave solutions in quadratic nonlinear media, Advances and Applications in Mathematical Sciences, **2**, 105-116, 2010.
- 61. Q.J.A. Khan, E.V. Krishnan and E.Balakrishnan, Two-predator and two-prey species group defence model with switching effect, International Journal of computational Bio-Science, **1**, 69-78, 2010.
- 62. E.V. Krishnan and Anjan Biswas, Solutions to the Zakharov-Kuznetsov equation with higher order nonlinearity by mapping and ansatz methods, Physics of Wave Phenomena, **18**, 256-261, 2010.
- 63. Anjan Biswas and E.V. Krishnan, Exact solutions for Ostrovski equation, Indian Journal of Physics, **85**, 1513-1521, 2011
- 64. A study of shallow water waves with Gardner's equation, E.V. Krishnan, Houria Triki, Manel Labidi and Anjan Biswas, Nonlinear Dynamics, **66**, 497-507, 2011.
- 65. G. Ebadi, E.V. Krishnan, Manel Labidi, Essaid Zerrad and Anjan Biswas, Analytical and numerical solutions to Davey-Stewartson's equation with power law nonlinearity, Waves in Random and Complex Media, **21**, pp. 559 590, 2011. *****
- 66. E.V. Krishnan, Elliptic function solutions of some nonlinear evolution equations, Proceedings of World Academy of Science, Engineering and Technology, **81**, 1064-1079, 2011.
- 67. Manel Labidi, Houria Triki, E.V. Krishnan and Anjan Biswas, Soliton solutions of the longshort wave equation with power law nonlinearity, Journal of Applied Nonlinear Dynamics, 1, 125-140, 2012.
- 68. G. Ebadi, E.V. Krishnan and Anjan Biswas, Solitons and cnoidal waves of the Klein-Gordon-Zakharov equation in plasmas, Pramana, **79**, 185-198, 2012.
- 69. Solitons and other nonlinear waves of the Boussinesq equation, E. V. Krishnan, Sachin Kumar & Anjan Biswas, Nonlinear Dynamics, **70**, 1213-1221, 2012.
- Solutions of the perturbed Klein-Gordon equation, Anjan Biswas, Ghodrat Ebadi, Megan Fessak, Andrew G. Jognpillai, Stephen Johnson, E. V. Krishnan & Ahmet Yildirim, Iranian Journal of Science and Technology, Transactions A, 4, 431-452, 2012.
- 71. Cnoidal wave, snoidal wave and soliton solutions of the D(m,n) equation , G. Ebadi, E.V. Krishnan, Stephen Johnson and Anjan , Arabian Journal of Mathematics, **2**, 19-31, 2013.
- 72. Solitary waves and conservation laws of Bona-Chen equations, Anjan Biswas, E.V. Krishnan, Pablo Suarez, Abdul H. Kara and Sachin Kumar, Indian Journal of Physics, **87**, 169-175, 2013.

- 73. Solutions of a coupled wave equation, E.V. Krishnan, Ghodrat Ebadi and Anjan Biswas, University Polytechnica of Bucharest Scientific Bulletin, Series A, **75**, 57-68, 2013.
- 74. Topological solitons, cnoidal waves and conservation laws of coupled wave equations, E.V. Krishnan, A. H. Kara, S. Kumar and Anjan Biswas, Indian Journal of Physics, **87**(12), 1233-1241, 2013.
- 75. Topological solitons and other solutions to potential Korteweg-de Vries equation, Anjan Biswas, Sachin Kumar, E.V. Krishnan, Bouthina Ahmed, Andre Strong, Stephen Johnson and Ahmet Yildrim, Romanian Reports in Physics, **65**(4), 1125-1137, 2013.
- 76. Solitons and and other solutions to the generalized Maccari system, Bouthina S. Ahmed, Anjan Biswas, E.V. Krishnan and Sachin Kumar, Romanian Reports in Physics, **65**(4), 1138-1154, 2013.
- 77. Shock waves and other solutions to the Sharma-Tasso-Olver equation with Lie-point symmetry and travelling wave approach, B.S. Ahmed, R.M. Morris, E.V. Krishnan, P.G. Leach and Anjan Biswas, Applied Mathematics and Information Sciences, **8**(6), 2675-2682 (2014).
- Solitons in optical metamaterials by mapping method, E.V. Krishnan, M. Al Ghabshi, Q. Zhou, K.R. Khan, M.F. Mahmood, Yanan Xu, Anjan Biswas and M.Belic, Journal of Optoelectronics and Advanced Materials, 17(3-4), 511-516 (2015).
- 79. E.V. Krishnan, Jacobi Elliptic Function Solutions of a Fractional Nonlinear Evolution Equation, International journal of mathematical analysis, **10**(3), 127-138(2016).
- 80. E.V. Krishnan, Qin Zhou, Anjan Biswas, Solitons and shock waves to Zakharov-Kuznetsov equation with dual-power-law nonlinearity in plasmas, Proceedings of the Romanian Academy, **17**(2), 137-143(2016).
- 81. E.V. Krishnan, Muna Al Ghabshi, Qin Zhou, Anjan Biswas and Milivoj Belic, Bright and dark optical solitons with Kerr and parabolic law nonlinearities by series solution approach, Journal of Computational and Theoretical Nanoscience, **13**, 58-61(2016).
- Marwan Alquran and Edamana V. Krishnan, Applications of sine-Gordon expansion method for a reliable treatment of some nonlinear wave equations, Nonlinear Studies, 23(4), 539-649 (2016).
- 83. E.V. Krishnan and K.S. Alghafri, Some explicit solutions of modified K(n,n) and K(n+1,n+1) equations, International journal of mathematical Analysis, **10**(25), 1229-1243 (2016).
- 84. Muna Al Ghabshi, E.V. Krishnan, Kamel Al Khaled and Marwan Alquran, Exact and Approximate Solutions of a System of Partial Differential Equations, International Journal of Nonlinear Science, **23**(1), 11-21 (2017).
- 85. Michelle Sevescu, Abdul H. Kara, Sachin Kumar, E.V. Krishnan, M. Zaka Ullah, S.P. Moshoka, Quin Zhou and Anjan Biswas, Embedded Solitons and conservation laws with chi² and chi³ nonlinear susceptibilities, Acta Physica Polonica, **131**(2), 297-303 (2017).
- 86. Muna Al Ghabshi and E.V. Krishnan, Solitary wave solutions of a fractional Boussinesq equation, International journal of Mathematical Analysis, **11**(9), 407-423(2017).
- 87. Mohammad Mirzazadeh, Mehmet Ekici, Mostafa Eslami, Edamana Vasudevan Krishnan, Sachin Kumar and Anjan Biswas, Solitons and other solutions to Wu-Zhang system, Nonlinear Analysis : Modelling and Control, **22**(4), 441-458 (2017).
- Muna Al Ghabshi, E. V. Krishnan, Marwan Alquran and Kamel Al-Khaled, Jacobi Elliptic Function Solutions of a Nonlinear Schrodinger Equation in metamaterials, Nonlinear Studies, 24(3), 469-480, (2017).
- 89. K. S. Al-Ghafri and E.V. Krishnan, Exact solutions of Nonlinear Wave Equations with Power Law Nonlinearity, Nonlinear Studies, **24**(3), 537-551, (2017).
- 90. E.V. Krishnan, Anjan Biswas, Qin Zhou and M.M. Babatin, Optical solitons with anti-cubic nonlinearity by mapping methods, Optik, **170**, 520-526, (2018).
- 91. M. Alquran, A. Jarrah and E.V. Krishnan, Solitary wave solutions of the Phi-Four equation and the breaking soliton system by means of Jacobi Elliptic Sine-Cosine expansion method, Nonlinear Dynamics and Systems Theory, **18**(3), 233-240, (2018).
- 92. K.S. Al Ghafri, E.V. Krishnan, Anjan Biswas and Mehmet Ekici, Optical solitons having anticubic nonlinearity with a couple of exotic integration schemes, Optik, **172**, 794-800, (2018).
- 93. K.S. Al Ghafri, E.V. Krishnan and Anjan Biswas, Optical solitons for the Cubic-Quintic Nonlinear Schrodinger Equation, AIP Conference Proceedings, 2046, 020002 (2018).

- 94. E.V. Krishnan, Anjan Biswas, Qin Zhou and Mohanad Alfiras, Optical soliton perturbation with Fokas-Lenells equation by Mapping Methods, Optik, **178**, 104-110, 2019.
- 95. E.V. Krishnan, Anjan Biswas, Qin Zhou, Mehmet Ekici, Ali Saleh Alshomrani, Milivoj Belic, Optical soliton perturbation with quadratic-cubic nonlinearity, Chinese journal of Physics, **60**, 632-637, 2019.
- 96. Muna Al Ghabshi, E.V. Krishnan and Marwan Alquran, Exact solutions of a Klein-Gordon system by G'/G expansion method and Weierstrass elliptic function method, Nonlinear Dynamics and Systems Theory, **19**(3), 386-395, 2019.
- 97. E.V. Krishnan, Muna Al Ghabshi and Marwan Alquran, G'/G expansion method and Weierstrass elliptic function method applied to a coupled wave equation, Nonlinear Dynamics and Systems Theory, **19**(4), 512-522, 2019.