List of Publications

(a) Journals

1. Behera Diptiranjan, Huang Hong-Zhong and Tapaswini Smita, Uncertain dynamic responses of imprecisely defined arbitrary order fractionally damped beam subject to various loads, Engineering Computations, 35 (2018) 818-842;
2. Chakraverty S., Hladik M. and Behera Diptiranjan, Formal solution of an interval system of linear equations with an application in static responses of structures with interval forces, Applied Mathematical Modelling, 50 (2017) 105-117;
3. Tapaswini Smita, Mu Chunlai, Behera Diptiranjan and Chakraverty S., Solving imprecisely defined vibration equation of large membranes, Engineering Computations, 34 (2017) 2528-2546;
4. Behera Diptiranjan and Chakraverty S., A note on "A new method for solving an arbitrary fully fuzzy linear system", Soft Computing, Vol. 21 (2017), 7117-7118;
5. Behera Diptiranjan and Chakraverty S., Erratum to "Solving fuzzy complex system of linear equations" [Information Sciences 277 (2014) 154-162], Information Sciences, 369 (2016) 788-790;
6. Behera Diptiranjan, Chakraverty S. and Huang Hong-Zhong, Non-probabilistic Uncertain Static Responses of Imprecisely Defined Structures with Fuzzy Parameters, Journal of Intelligent and Fuzzy Systems, 30 (2016) 3177-3189;
7. Behera Diptiranjan, Huang Hong-Zhong and Chakraverty S., Solving Fully Fuzzy Generalized System of Linear Equations by Linear Programming Approach, Computer Modeling in Engineering and Sciences, 108 (2015) 67-87;
8. Behera Diptiranjan and Chakraverty S., Dynamic response and oscillating behavior of fractionally damped beam, Computer Modeling in Engineering and Sciences, 104 (2015) 211-225 ;
9. Chakraverty S. and Behera Diptiranjan, Uncertain dynamic responses of fuzzy fractionally damped spring-mass system, Journal of Intelligent and Fuzzy Systems, 29 (2015) 327-336;
10. Tapaswini Smita, Chakraverty S. and Behera Diptiranjan, Numerical solution of imprecisely defined inverse heat conduction problem, Chinese Physics B, 24 (2015), 050203- (01-10);
11. Behera Diptiranjan, Chakraverty S. and Tapaswini Smita, Uncertain dynamic responses of fuzzy arbitrary order damped beam, ASCE-ASME Journal of Risk and

Uncertainty in Engineering Systems: Part B. Mechanical Engineering (2015) DOI: 10.1115/1.4030440 (ASME);

12. Behera Diptiranjan and Chakraverty S., New approach to solve fully fuzzy system of linear equations using single and double parametric form of fuzzy numbers, Sadhana-Academy Proceedings in Engineering Science, 40 (2015), 35-49;
13. Tapaswini Smita, Chakraverty S. and Behera Diptiranjan, Uncertain vibration equation of large membranes, The European Physical Journal Plus, 129 (2014) 251-266;
14. Behera Diptiranjan and Chakraverty S., Solving fuzzy complex system of linear equations, Information Sciences, 277 (2014) 154-162 ;
15. Chakraverty S. and Behera Diptiranjan, Parameter identification of multistorey frame structure from uncertain dynamic data, The Strojniški Vestnik-Journal of Mechanical Engineering, 60 (2014) 331-338;
16. Behera Diptiranjan and Chakraverty S., Uncertain impulse response of imprecisely defined half order mechanical system, Annals of Fuzzy Mathematics and Informatics, 7 (2014) 401-419;
17. Behera Diptiranjan and Chakraverty S., Fuzzy analysis of structures with imprecisely defined properties, Computer Modeling in Engineering & Sciences, 96 (2013), 317-337;
18. Behera Diptiranjan and Chakraverty S., Fuzzy finite element analysis of imprecisely defined structures with fuzzy nodal force, Engineering Applications of Artificial Intelligence, 26 (2013) 2458-2466;
19. Behera Diptiranjan and Chakraverty S., Fuzzy centre based solution of fuzzy complex linear system of equations, International Journal of Uncertainty Fuzziness and Knowledge-Based Systems, 21 (2013), 629-642;
20. Chakraverty S., and Behera Diptiranjan, Fuzzy system of linear equations with crisp coefficients, Journal of Intelligent and Fuzzy Systems, 25 (2013), 201-207;
21. Behera Diptiranjan and Chakraverty S., Numerical solution of fractionally damped beam by homotopy perturbation method, Central European Journal of Physics, 11 (2013), 792-798;
22. Behera Diptiranjan and Chakraverty S., Solution method for fuzzy system of linear equations with crisp coefficients, Fuzzy Information and Engineering, 5 (2013), 205-219;

23. Chakraverty S. and Behera Diptiranjan, Dynamic responses of fractionally damped mechanical system using homotopy perturbation method, Alexandria Engineering Journal, 52 (2013) 557-562;
24. Behera Diptiranjan and Chakraverty S., Solution of fuzzy system of linear equations with polynomial parametric form, Application and Applied Mathematics: An International Journal (AAM), 7 (2012), 648-657;
25. Behera Diptiranjan and Chakraverty S., A new method for solving real and complex fuzzy system of linear equations, Computational Mathematics and Modeling, 23 (2012), 507-518;

(b) Conferences

1. Behera Diptiranjan, Huang Hong-Zhong, Chakraverty S. and Tapaswini Smita, Imprecisely defined viscoelastic fractionally damped spring-mass mechanical system, QR2MSE 2016 and WCEAM 2016, Jiuzhaigou, Sichuan, China, 25th-28th July, 2016;
2. Behera Diptiranjan and Chakraverty S., Solving fully fuzzy system of linear equations, International Conference on Mathematical Modelling, University of Colombo, Sri Lanka, 13th-14th March, 2014;
3. Behera Diptiranjan and Chakraverty S., Parameter identification of multistorey frame structure from uncertain dynamic data, Eleventh International Conference on Recent Advances in Structural Dynamics, RASD-2013, Pisa, Italy, 1st-3rd July, 2013;
4. Behera Diptiranjan and Chakraverty S., Solution to interval system of linear equations for static responses of structures with interval forces, Theme Meeting on Fuzzy and Interval based Uncertainty Modelling (FIUM-2013), NIT Rourkela, Odisha, India, 18th-20th July, 2013 (Abstract Published);
5. Behera Diptiranjan and Chakraverty S., Static analysis of imprecisely defined bar with uncertain force, 39th Annual conference of Orissa Mathematical Society and National seminar on cryptography, VIVTECH, Bhubaneswar, Odisha, 4th -5th February, 2012; (Abstract Published);
6. Behera Diptiranjan, Datta D. and Chakraverty S., Development of a finite element solution of a stepped rectangular Bar in presence of fuzziness in material properties, Proc. of the 5th International Conference on Advances in Mechanical Engineering, ICAME-2011, SVNIT, Surat-395 007, India, 6th -8th June, 205-209, 2011;
7. Behera Diptiranjan and Chakraverty S., Fuzzy finite element solution of a stepped rectangular bar with uncertain material properties, National Meet for Research

Scholars in Mathematical Sciences, IIT Kharagpur, 12th -16th October, 2011; (Abstract Published).

(c) Book

1. Chakraverty S., Tapaswini Smita and Behera Diptiranjan, Fuzzy Arbitrary Order Systems: Fuzzy Fractional Differential Equations and Applications, John Wiley & Sons Inc., Wiley, Hoboken, NJ, August 2016, ISBN-10: 111900411X, ISBN-13: 978-1119004110;
2. Chakraverty S., Tapaswini Smita and Behera Diptiranjan, Fuzzy Differential Equations and Applications for Engineers and Scientists, CRC Press, Taylor and Francis Group, Florida, USA, December 2016, ISBN 9781482244731-CAT#K23501.

(d) Book chapters

1. Chakraverty S. and Behera Diptiranjan, Uncertain static and dynamic analysis of imprecisely-defined structural systems, Mathematics of Uncertainty Modeling in the Analysis of Engineering and Science Problems, Editor: S. Chakraverty, IGI Global Publication, USA, 357-382, 2014.