

Digital Forensics Lab Report: 2

Date: 03-08-2022

Name:	Parth Patel
Roll No:	19BCP091
Subject Code:	20CP411P
Subject Name:	Digital Forensics Lab

Aim/Purpose: Study of a Profile Generation using OSINT Techniques.

What is OSINT?

Open-source data is any information that is readily available to the public or can be made available by request. OSINT sources can include:

- Newspaper and magazine articles, as well as media reports
- Academic papers and published research
- Books and other reference materials
- Social media activity
- Census data

Target: [Dr Manoj Sahni](#)

Prior Known Information: Works in PDEU, Gandhinagar

PERSONAL DETAILS

Name	Dr Manoj Sahni
Designation	Associate Professor
Department	Department of Mathematics, School of Technology
Email	Manoj.Sahni@sot.pdpu.ac.in



Figure 1 Dr Manoj Sahni

Educational Qualifications

- M.Sc. (Mathematics, Dayalbagh Educational Institute, Agra), 2003
- Ph.D (Mathematics, Jaypee Institute of Information Technology, Noida), 2010
- M.Phil. (APPLIED MATHEMATICS, IIT ROORKEE), 2004
- B.Sc. (Mathematics, Physics, Chemistry, Lucknow Christian Degree College, Lucknow), 1999

Professional Affiliation

UCSC, Chile UTS, Australia

Areas of Interest

Elasticity, Plasticity, and Creep, Functionally Graded Materials, Fuzzy Sets and their Extensions, Development of Novel Numerical Methods, Fixed Point Iteration Methods.

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PUBLICATIONS / ARTICLES / CONFERENCE

'Applied Mathematical Modeling and Analysis in Renewable Energy', Research based books or monographs, 9781003159124, pp. 1-197, Oct 2021

'Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy - Proceedings of the Second International Conference MMCITRE2021', Research based books or monographs, 978-981-16--5952-2, pp. 1 - 516, Dec 2021

'Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Proceedings of the First International Conference, MMCITRE2020', Research based books or monographs, 978-981-15-9953-8, pp. 1 - 559, mar 2021

Articles/Chapters Published in the books

'Finding the Surface Area and Volume of the Hyperspheres Using Simple Calculus', Applied Mathematical Modeling and Analysis in Renewable Energy, 9781003159124, pp. 125-130, Oct 2021

'Analysis of Orthotropic Variable Thickness Rotating Disc', Structural Integrity Assessment, 978-981-13-8767-8, pp. 479-486, jul 2019

'Stress Analysis of a Pressurized Functionally Graded Rotating Discs with Variable Thickness and Poisson's Ratio', Applied Mathematics and Computational Intelligence, 978-3-319-75791-9, pp. 54-62, Nov 2017

'Elastic-Plastic Analysis for a Functionally Graded Rotating Cylinder Under Variation in Young's Modulus', Applied Mathematics and Computational Intelligence, 978-3-319-75791-9, pp. 26-39, Nov 2017

Published Papers in Journals

'Secondary Creep Analysis of FG Rotating Cylinder with Exponential, Linear and Quadratic Volume Reinforcement', Materials, pp. 1-23, feb 2022

'Fuzzy Number - A New Hypothesis and Solution of Fuzzy Equations', Mathematics and Statistics, pp. 176 - 186, jan 2022

'Diagnosis of Intracranial Tumors via the Selective CNN Data Modeling Technique', Applied Sciences, pp. 1-14, mar 2022

'COMPARISON OF MATERIAL RESPONSE FOR THERMOMECHANICAL STRESSES IN FUNCTIONALLY GRADED ROTATING CYLINDERS ', Structural Integrity and Life , pp. 259-265, Dec 2021

'Stress Analysis of Functionally Graded Disk with Exponentially Varying Thickness using Iterative Method ', WSEAS TRANSACTIONS on APPLIED and THEORETICAL MECHANICS, pp. 232-244, Dec 2021

'Two-Dimensional Stress Analysis of Thick Hollow Functionally Graded Sphere Under Non-Axisymmetric Mechanical Loading ', International Journal of Mathematical, Engineering and Management Sciences, pp. 1115-1126, jul 2021

'Sumudu transform for solving ordinary differential equation in a fuzzy environment', Journal of Interdisciplinary Mathematics, pp. 1-13, mar 2021

'TWO-DIMENSIONAL STRESS ANALYSIS OF A THICK HOLLOW CYLINDER MADE OF FUNCTIONALLY GRADED MATERIAL SUBJECTED TO NON-AXISYMMETRIC LOADING', Structural Integrity and Life , pp. S71-S81, aug 2021

'FROBENIUS SERIES SOLUTION FOR FUNCTIONALLY GRADED MATERIAL WITH EXPONENTIALLY VARIABLE THICKNESS AND MODULI', Structural Integrity and Life , pp. S83-S88, aug 2021

'MODELLING OF MECHANICAL VIBRATING SYSTEM IN CLASSICAL AND FUZZY ENVIRONMENT USING SUMUDU TRANSFORM METHOD ', Structural Integrity and Life , pp. S54-S60, Dec 2020

'THERMO-MECHANICAL ANALYSIS OF SANDWICH CYLINDER WITH MIDDLE FGM AND BOUNDARY COMPOSITE LAYERS', Structural Integrity and Life , pp. 313-318, Dec 2020

'Thermo-Mechanical Analysis for an Axisymmetric Functionally Graded Rotating Disc under Linear and Quadratic Thermal Loading', International Journal of Mathematical, Engineering and Management Sciences, pp. 744-757, apr 2020

'Sumudu Transform for Solving Second Order Ordinary Differential Equation under Neutrosophic Initial Conditions', Neutrosophic Sets and Systems,, pp. 258-275, Dec 2020

'ANALYSIS OF CREEP STRESSES IN THIN ROTATING DISC COMPOSED OF PIEZOELECTRIC MATERIAL ', Structural Integrity and Life , pp. S45-S49, Dec 2020

'An Inventory Model on Preservation Technology with Trade Credits under Demand Rate Dependent on Advertisement, Time and Selling Price ', Universal Journal of Accounting and Finance, pp. 65-74, sep 2020

'Generalized Trapezoidal Intuitionistic Fuzzy Number for Finding Radial Displacement of a Solid Disk', WSEAS TRANSACTIONS on MATHEMATICS, pp. 105 - 111, mar 2019

'Comparison of Newton-Raphson and Kang's Method with newly developed Fuzzified He's Iterative method for solving nonlinear equations of one variable', WSEAS TRANSACTIONS on MATHEMATICS, pp. 6-13, jan 2019

'Second Order Cauchy Euler Equation and Its Application for Finding Radial Displacement of a Solid Disk using Generalized Trapezoidal Intuitionistic Fuzzy Number', WSEAS TRANSACTIONS on MATHEMATICS, pp. 37-45, jan 2019

'Ranking of Teachers Based on Feedback from the Students using Multiple Subjects', International Journal of Mathematical Models and Methods in Applied Sciences, pp. 7 – 12, mar 2019

'Thermo-mechanical Stress Analysis of Thick-Walled Cylinder with Inner FGM Layer', Structural Integrity and Life , pp. 211-223, Dec 2019

'Career Determination using Information Theoretical Measure and It's Comparison with Distances in IFS and PFS', International Journal of Mathematical Models and Methods in Applied Sciences, pp. 28 – 34, mar 2019

'Solution of Algebraic and Transcendental Equations using Fuzzified He's Iteration Formula in terms of Triangular Fuzzy Numbers', WSEAS TRANSACTIONS on MATHEMATICS, pp. 91 – 96, mar 2019

'Two -dimensional mechanical stresses for a pressurized cylinder made of functionally graded material', Structural Integrity and Life , pp. 79 – 85, Oct 2019

'Strength analysis of functionally graded rotating disc under variable density and temperature loading', Structural Integrity and Life , pp. 95 – 101, Oct 2019

'A new modified accelerated Iterative Scheme using Amalgamation of Fixed Point and N-R method', Journal of Interdisciplinary Mathematics, pp. 679-688, Nov 2019

'Information Theoretical Measure for Career Determination', WSEAS Transactions on Mathematics, pp. 73 – 78, mar 2019

'Evaluation of Teachers' Performance Based on Students' Feedback Using Aggregator Operator', WSEAS TRANSACTIONS on MATHEMATICS, pp. 85-90, mar 2019

'Elastic-plastic deformation of a thin rotating solid disk of exponentially varying density', RESM, sep 2016

'THERMO CREEP TRANSITION IN FUNCTIONALLY GRADED THICK-WALLED CIRCULAR CYLINDER UNDER EXTERNAL PRESSURE', ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, pp. 335-342, Dec 2014

'Functionally Graded Rotating Disc with Internal Pressure', Engineering and Automation Problems, pp. 125 - 129, mar 2014

'THERMO ELASTIC-PLASTIC TRANSITION OF A HOMOGENEOUS THICK-WALLED CIRCULAR CYLINDER UNDER EXTERNAL PRESSURE', Structural Integrity and Life, pp. 3-8, apr 2013

'CREEP ANALYSIS OF THIN ROTATING DISC HAVING VARIABLE THICKNESS AND VARIABLE DENSITY WITH EDGE LOADING', ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, pp. 289-296, jun 2013

'Elastic-Plastic Transition of Non-Homogeneous Thick-walled Cylinder under External Pressure', Applied Mathematical Sciences, pp. 6069-6074, jun 2012

'Thermo Creep Transition of Transversely Isotropic Thick-walled Rotating Cylinder under Internal Pressure', Int. J. Contemp. Math. Sciences, pp. 517-527, aug 2010

'Elastic-plastic Analysis of a Thin Rotating Disk of Exponentially Variable Thickness with Inclusion', WSEAS Transactions on Mathematics, pp. 314-323, may 2010

'Elastic-plastic Transition of Transversely Isotropic Thin Rotating Disc', Contemporary Engineering Sciences, pp. 433-440, apr 2009

'Thermo Elastic-plastic Transition of Transversely Isotropic Thick-walled Rotating Cylinder under Internal Pressure', Advances in Theoretical and Applied Mechanics, pp. 113-122, jan 2009

'Elastic-plastic transition of transversely isotropic thick-walled rotating cylinder under internal pressure', Defence Science Journal, pp. 260-264, may 2009

'Creep Analysis of Thin Rotating Disc under Plane Stress with no Edge Load', WSEAS Transactions on Applied and Theoretical Mechanics, pp. 725-738, jan 2008

'Creep Transition of Transversely Isotropic Thick-Walled Rotating Cylinder', Adv. Theor. Appl. Mech., pp. 315-325, feb 2008

Full Papers in Conference Proceedings

'Chi-Square Similarity Measure for Interval Valued Neutrosophic Set', Manoj Sahni, J.M. Merigo, Brajesh Kumar Jha, Rajkuar Verma, pp. 545 - 558, feb 2021

'Comparative Study of Two Teaching Methodologies Using Fuzzy Set Theory', Manoj Sahni, J.M. Merigo, Brajesh Kumar Jha, Rajkuar Verma, pp. 521 - 530, feb 2021

'Floyd's Algorithm for All-Pairs Interval-Valued Neutrosophic Shortest Path Problems', Manoj Sahni, J.M. Merigo, Brajesh Kumar Jha, Rajkuar Verma, pp. 463 - 474, feb 2021

'Development and Application of the DMS Iterative Method Having Third Order of Convergence', Manoj Sahni, J.M. Merigo, Brajesh Kumar Jha, Rajkuar Verma, pp. 55-64, feb 2021

'Novel Results for the Factorization of Number Forms', Manoj Sahni, J.M. Merigo, Brajesh Kumar Jha, Rajkuar Verma, pp. 21-28, feb 2021

'Generalized KKM Mapping Theorems', Manoj Sahni, J.M. Merigo, Ritu Sahni, Rajkumar Verma, pp. 77-91, Dec 2021

'DMS Way of Finding the Optimum Number of Iterations for Fixed Point Iteration Method', IAENG, pp. 1-3, jul 2018

'On Generalized Fuzzy Jensen-Exponential Divergence and Its Application to Pattern Recognition', IEEE, pp. 1515 - 1519, Nov 2018

'Numerical solution for FGM disk with variable thickness in a quadratic and cubic form', Department of Physics and Material Science & Engineering, pp. 1-3, aug 2018

'Thermal elastic-plastic transition of non-homogeneous thick-walled circular cylinder under external pressure', Dr. B.P. Chamola, Dr. Pato Kumari, pp. 1-9, Dec 2017

'Finite deformations of functionally graded shell under outer pressure with steady state temperature', Dr. B.P. Chamola, Dr. Pato Kumari, pp. 1, Oct 2017

'Creep deformation of a non-homogeneous thin rotating disk of exponentially varying thickness with internal pressure', Dr. B.P. Chamola, Dr. Pato Kumari, pp. 1, Oct 2017

'Stability of a new modified iterative algorithm', , mar 2016

'Study of Strength of Rotating Discs of Innovative Composite Material with Variable Thickness', , mar 2016

'Elastic-Plastic Deformation of a Rotating Solid Disk of Exponentially Varying Thickness and Exponentially Varying Density', , mar 2016

'Creep Behaviour under SiCp Exponential Volume Reinforcement in FGM Composite Rotating Cylinders', Jaipur National University, pp. 1-5, mar 2016

'Study of Creep Behaviour in Bending of Rotating Rectangular Plates', IGCAR, Kalpakam, pp. 491-496, jan 2016

'Rotating Functionally Graded Disc with Variable Thickness Profile and External Pressure', , pp. 1249-1254, mar 2015

'Functionally Graded Axisymmetric Rotating Annular Disc with Internal and External Pressure and Constant Poisson's Ratio', IIENG, pp. 1-5, jul 2015

'Analysis of Safety Measure in Creep Transversely Isotropic Thick-Walled Rotating Cylinder by Finitesimal Deformation under External Pressure', Amity University, Noida, pp. 685-689, Oct 2013

'Elastic-Plastic Transition of Non-Homogeneous Isotropic Thick-Walled Spherical Shell under Pressure with Steady State Temperature', IGCAR, Kalpakkam, pp. 731-738, feb 2013

'Elastic-Plastic Analysis for Finite Deformation of a Rotating Disk Having Variable Thickness with Inclusion', WASET, pp. 456-465, jun 2011

'Creep Deformation of a Thin Rotating Disk of Exponentially Varying Thickness with Inclusion', IEEE, pp. 271-276, Nov 2010

'Elastic-Plastic Deformation of a Thin Rotating Disk of Exponentially Varying Thickness and Inclusion', IASME/ WSEAS, pp. 33-41, feb 2010

'Creep Transition of Transversely Isotropic Thin Rotating Disc', WSEAS, pp. 72 - 77, aug 2008

Papers presented in Conferences, Seminars, Workshops, Symposia

'Study of Intuitionistic Fuzzy Super Matrices and its Application in Decision Making', ICONIS 2021, Dr. Fabio R. Blanco Mesa, Dr. Ernesto Leon Castro, Dr. Victor G. Alfaro Garcia, Oct 2021

'Multi-Criteria Decision Making in the Selection of Biomass Renewable Energy', 2nd International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE2021), Manoj Sahni, J.M. Merigo, Ritu Sahni, Rajkumar Verma, feb 2021

'Analysis of Creep Stresses in Thin Rotating Disc composed of Piezoelectric Material', International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Manoj Sahni and Brajesh Kumar Jha, feb 2020

'Solving ordinary differential equation using Sumudu transform method in Intuitionistic Fuzzy environment', International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Manoj Sahni and Brajesh Kumar Jha, feb 2020

'Generalized Trapezoidal Intuitionistic Fuzzy Number for Finding Radial Displacement of a Solid Disk', AMACS2018, LAMBROS, Oct 2018

'ANALYSIS OF ORTHOTROPIC VARIABLE THICKNESS ROTATING DISC', ICONS 2018, Sasikala, Dec 2018

'Stability of a New Modified Iterative Algorithm', International MultiConference of Engineers and Computer Scientists, IAENG, mar 2016

'Elastic-Plastic Deformation of a Rotating Solid Disk of Exponentially Varying Thickness and Exponentially Varying Density', International MultiConference of Engineers and Computer Scientists, IAENG, mar 2016

'Creep Behaviour under SiCp Exponential Volume Reinforcement in FGM Composite Rotating Cylinders', ICEMS 2016, ICEMS 2016, mar 2016

'Functionally Graded Axisymmetric Rotating Annular Disc with Internal and External Pressure and Constant Poisson's Ratio', International Conference on Computing, Mechanical and Electronics Engineering, IIENG, jul 2015

'Rotating Functionally Graded Disc with Variable Thickness Profile and External Pressure', 3rd International Conference on Recent Trends in Computing, , mar 2015

'Analysis of Safety Measure in Creep Transversely Isotropic Thick-Walled Rotating Cylinder by Finitesimal Deformation under External Pressure', 2014 Third International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) Trends and Future Directions 2014), Amity University, Oct 2014

'Elastic-plastic Analysis for Finite Deformation of a Rotating Disk Having Variable Thickness with Inclusion', International Conference on Computational and Applied Mathematics, , mar 2011

Google Scholar:

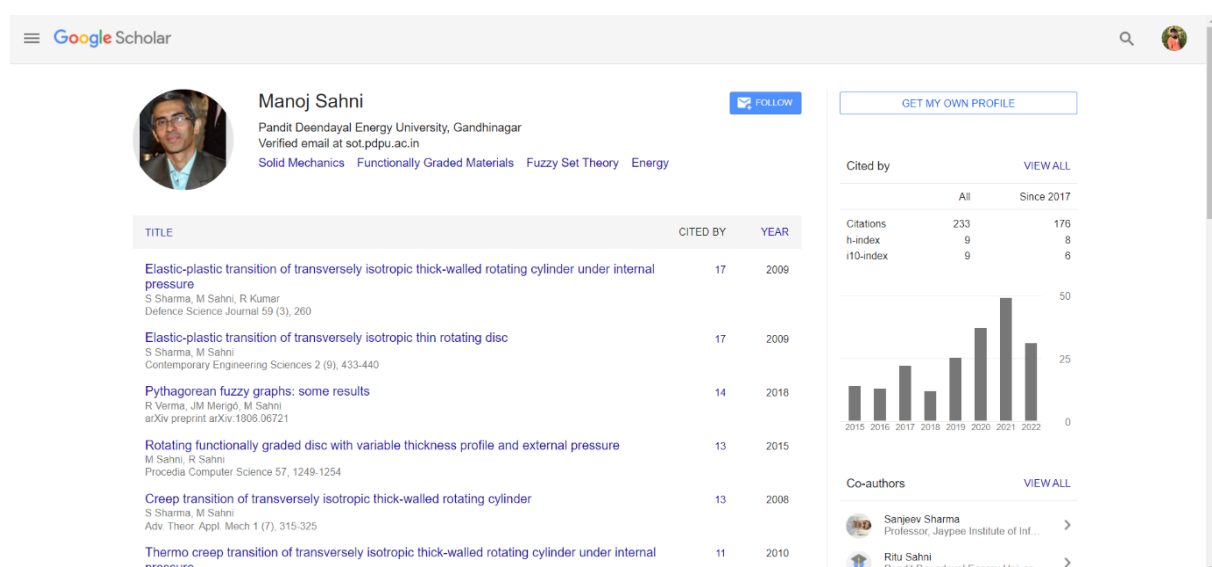


Figure 2 Dr Manoj Sahni google scholar profile

Source:

1. <https://orsp.pdpu.ac.in/adminfacviewprofile.aspx?facid=manoj.sahni>
2. <https://scholar.google.co.in/citations?user=ioO8dpUAAAAJ&hl=en>
3. <https://www.facebook.com/public/Manoj-Sahni>

Analysis:

1. With the help of OSINT we are able to profiling Dr Manoj Sahni and able to find their person information and other information like research paper, contact number etc.

Conclusion:

1. Open Source Intelligence software, abbreviated as OSINT software, are tools that allow the collection of information that is publicly available or open-source. The goal of OSINT software is mainly to learn more about someone or a business. Bu using OSNIT, we can get a lot of useful information quickly, which would otherwise take a lot of time to find by reading newspapers, magazines, industry newsletters, watching TV, and looking at social media and blogs
2. With the help of OSINT we are able to gather data of PDEU professor Dr Manoj Sahni and able to find their person information and other information like research paper, contact number etc.