**Curriculum vitae**

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| **M. L. Sharma**Professor, Department of Earthquake Engineering, IIT Roorkee, Roorkee – 247667, India | C:\Users\Admin\Desktop\mukutfeq.jpg |

**Personal Data**

Name: M. L. Sharma

Born: Dec. 09, 1962, Uttar Pradesh, India

Nationality: Indian

Address: Department of Earthquake Engineering, IIT Roorkee,
Roorkee – 247667, India

Professional affiliation: Professor, Department of Earthquake Engineering

 Indian Institute of Technology Roorkee, Roorkee, India

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Email: sharmamukat@gmail.com

**Education**

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| --- | --- |
| 1992 | Ph.D., in Earthquake Engineering, University of Roorkee, India |
| 1985 | M. Tech., in Applied Geophysics, , University of Roorkee, India |
| 1982 | Bachelor of Science from Meerut University, India |

**Employment Record**

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| --- | --- |
| Since 8 May, 2008 | Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India |
| 28 Sep, 2004 – 8 May, 2008 | Associate Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India |
| 09 April, 1996 – 28 Sep, 2004 | Assistant Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India |
| 26 June, 1986 – 09 April, 1996 | Lecturer, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India |
| 27 Dec, 1985-26 June, 1986 | Scientist B, Department of Earthquake Engineering – University of Roorkee, India |

**Research Interests**

*Engineering Seismology, Seismic Microzonation, Seismic Hazard Assessment, Strong Ground Motion Prediction*

**Languages**

Hindi – mother tongue, English – fluent.

**Membership in Professional Associations:**

* **FISET** : Fellow of Indian Society of Earthquake Technology
* **FIGS** : Fellow of Indian Geotechnical Society
* **FIGU** : Fellow of Indian Geophysical Union, Hyderabad
* **Life Member** : Association of Exploration Geophysicists, Hyderabad
* **Member** : Seismological Society of America, USA
* **Member** : Earthquake Engineering Research Institute, USA

**Adminitrative-Technical responsibilities**

* **President** : Indian Society of Earthquake Technology Roorkee (2015-2017)
* **Vice President** : Indian Society of Earthquake Technology, Roorkee ( 2011-2013, 2013-2015)
* **Associate Editor** : ISET Journal of Indian Society of Earthquake Technology, (2007-2009, 2009-2011, 2011-2013, 2013-2015, 2015-2017)
* **Secretary** : Roorkee Chapter, Indian Society of Earthquake Technology,(1999-2014)
* **Chairman** : 15 Symposium on Earthquake Engineering, 2014
* **Chairman** : Joint Entrance Examination (Advanced), IIT Roorkee, 2017
* **Vice Chairman** : Joint Entrance Examination 2010-11, IIT Roorkee
* **Vice Chairman** : Joint Entrance Examination 2011-12, IIT Roorkee
* **Chief Advisor** : Sports Association, IIT Roorkee (2010-2013)
* **Convenor,** Adhoc committee on management of Sri Saraswati Mandir, IIT Roorkee 2016-17

***Chairing Sessions***

1. Engineering Geology conference, IIT Delhi, 2015, IGS from gopal dhawan
2. Indian Geophysical Union, Kurukshetra, 2014-15 from dinesh

***International visits***

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Dates | Institue and country | Purpose |
| 1 | March12-18, 2016 | NCREE, Taiwan | Seismic hazard assessment of nuclear power plants |
| 2 | Jan 23-30, 2016 | NCREE, Taiwan | MoES research project |
| 3 | Sept 20-22, 2015 | Nepal | Attend a Seminar |
| 4 | Aug. 02-09, 2015 | Singapore | 12th Annual Meeting on AOGS |
| 5 | Janu. 27-31 , 2015 | Taipai, Taiwan | Research Project Work (NCREE) |
| 6 | Sept 28- Oct 04, 2014 | NTU, Singapore | Academic/Project discussion |
| 7 | March 08-16, 2014 | Taipai & Singapore | Project work for Taiwan Project |
| 8 | Sept. 24- 28 , 2012 | Lisbon, Portugal | 15WCEE |
| 9 | July 08- 14, 2012 | St. Petersburg Moscow Russia | Project work |
| 10 | May 27- June 06, 2012 | Norway | Project work |

***Major Research Project*s**

1. Site Characterization and Attenuation Studies for Garhwal-Kumaun Himalaya and Delhi Region***(Co-PI), Funded by Ministry of Science and Technology, New Delhi, 2015-2018 (Rs. 23.24 Lacs)***
2. Operation and Strong motion Accelerograph in Tehri and Koteshwar, THDC India Ltd., Rishikesh, **2015-2016,** *(Rs. 30.91 Lacs)*
3. Seismological Network Around Tehri Region ***(PI)***, THDC India Ltd., Rishikesh, **2013-2016,** (Rs. 287.72 Lacs)
4. Probabilistic seismic hazard assessment and estimation of strong ground motion for Delhi region (PI), EREC, New Delhi, **2011-2013**, (Rs. 5.70 Lacs)
5. Source modeling and generation of strong motion : A case study of Sumatra earthquake of Dec 26, 2004 (Co-PI), DAE, BRNS, **2011-2013**, (Rs. 15.86 Lacs)
6. Strong motion network in NCT region***(Co-PI)***, DST New Delhi, **2011-2014**, (Rs. 45.81Lacs)
7. Indo Norwegian programme on earthquake engineering (Co-PI), NORSAR, Norway, **2011-2015, (1182000 NOK)**
8. **2010-2013 :** Estimation of site effects and ground motion in Delhi and Mexico city using strong ground motion data and preparation of near real time shake map ***(Co-PI)***, DST, New Delhi
9. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2010-2013**, (Rs.171.00 Lacs)
10. Shear Wave Velocity profiling in NCT, Delhi using MASW technique (PI), EREC New Delhi, **2009-2011**, (Rs.50.00 Lacs)
11. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2007-2010**, (85.31 Lacs)
12. Indo Norwegian programme on earthquake engineering (Co-PI), NORSAR, Norway,**2006-2011, (**621264 NOK)
13. Indo Norwegian Program of institutional Corporation on Earthquake Engineering (Co-PI), NORSAR Norway, **2004-2006,** (Rs.33.95 Lacs)
14. Seismological network around Tehri region (Co-PI), THDC, Rishikesh,**2004-2007**, (Rs.97.24 Lacs)
15. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2001-2004,** (Rs.85.96 Lacs)
16. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **1998-2001**, (Rs.85.28 Lacs)
17. Application of DIF-SAR to investigate critical deformation regimes in Garhwal Kumaon Himalaya related to earthquakes and landslide (PI), DST New Delhi, **1997-1999,** (Rs. 15.75 Lacs)
18. Broadband Seismograph Network for Modelling of earthquake source & upper crust in the GarhwalKumaon Himalaya region. (PI), DST New Delhi, **1996-1998,** (Rs. 24.96 Lacs)
19. **1995-1996 :** SAR interferometry for mapping land subsidence due to mining in Jharia Coal Field, Jharkhand, (Co-PI), DST New Delhi
20. Study of Shallow earthquakes in Indian region using Differential SAR Interferometry, (PI), AICTE, New Delhi, **1994-1995**, (Rs. 10.00 Lacs)

***Major Consultancy Projects***

1. Seismic Hazard Assessment for South India**, DRIP, CWC, New Delhi, 2016-2018,**(Rs. 82.44 Lacs)
2. Seismic hazard studies for infield pipe line route (west block) M.P., Reliance Industries Ltd **2015-2018,** (Rs. 27.36 Lacs)
3. Operation and Maintenance of five Stations Seismological Network around Lakhwar Hydro Electric Project Uttarakhand, Uttarakhand Jal Vidhut Nigam Ltd., Lakhwar Bhawan, Dakpathar, Dehradun, **2015-2016,** (Rs. 62.97 Lacs)
4. Operation and Maintenance of Six Stations Seismological Network around Kol Dam Site, NTPC, KOL Dam Himachal Pradesh, **2014-2017,** (Rs. 20.22 Lacs)
5. Operation and Maintenance of Six Stations Seismological Network around Ettalin And Attulni Dam Site, Arunachal Pradesh, **2015-2018**, (Rs. 45.6 Lacs)
6. Kalpasar multipurpose scheme, Kalpasar Department, Govt. of Gujarat, **2014-2016,** (Rs. 8.98 Lacs)
7. Seismological network around Tehri region (PI), THDC, Rishikesh, **2013-2016,** (Rs. 53.93 Lacs)
8. Seismological network around Tehri region (Co-PI), THDC, Rishikesh,**2010-2013,** (Rs. 54.04 Lacs)
9. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2007-2010,** (Rs. 85.31 Lacs)

**Recognition**

* Member: Taskforce, Uttarakhand Disaster Recovery Project, Govt. of Uttarakhand, 2016-2018
* Chairman: Strong motion instrumentation, Bhakra Beas Managment Board, 2015-2017
* Member: International Editorial Review Board, International Journal of Geotechnical Earthquake Engineering (IJGEE), DOI: 10.4018/IJGEE, ISSN: 1947-8488, EISSN: 1947-8496 , 2012-2016
* Alternate Member: CED-39- Earthquake Engineering Sectional Committee, Bureau of Indian Standard, New Delhi, 2012-2016
* Member: National committee on site specific design earthquake parameters, CWC, New Delhi, 2012-2016
* Member: HPSDMA, Govt. of Himachal Pradesh, Disaster Management Cell, Shimla, 2012-2016
* Member: Committee on Indira Sagar Polavaram Project, Irrigation & CAD Department, Govt. of Andhra Pradesh, 2012-2016
* Member: Koyna Tremor Sub Committee (KTSC), Dam Safety Organization, Nashik, 2012-2016
* Member: Advisory group for preparation of upgraded earthquake hazard maps, NDMA, New Delhi, 2012-2016
* Member: Project Advisory Committee on Seismicity and Earthquake Precursors, Ministry of Earth Sciences, New Delhi, 2012-2016
* Co-author of the G[uidelines for preparation and submission of site specific seismic study report of river valley project to national committee on seismic design parameters, Central Water Commission, Government of India.](http://www.cwc.gov.in/main/Download_Index/Guidelines%20EQ.pdf)
* Reviewer: many national and international journals

**Awards:**

* A.S. Arya-IIT Roorkee Disaster Prevention Award-2012, IIT Roorkee
* Best paper award for the year 2011-12, Wadia Institute of Himalayan Geology, Dehradun

**PhD guided**

***Completed- 15***

1. **R. Kumar,** Earthquake occurrence in India and its use in seismic hazard estimation using probabilistic methods, 2007
2. **Anupam Tyagi,** Physics of the earthquake sources and development of expert system for earthquake prediction, 2007
3. **Javed Ahemed Naqash,** Microzonation of megacities, 2008
4. **Navin Pareek,** Landslide Hazard Zonation in Garhwal Himalaya using remote sensing techniques, 2008
5. **Shipra Malik,** 3D Crustal velocity structure Modelling of Garhwal Himalayas, 2009
6. **Girish C. Joshi**, Estimation of uncertainties in probabilistic seismic hazard analysis, 2009
7. **Atanu B,** Surface Displacement Measurement Studies using DInSAR in a Part of Himalayas, 2013
8. **Ashish Herbendoo,** Stochastic Modeling of Ground Motion for Indian Himalaya Region, 2013
9. **Ranjit Das,** Probabilistic Seismic Hazard Assessment for Northeast India Region, 2013
10. **Pushpa Chaudhary,** Simulation of Strong Ground Motion Using Semi Empirical Modelling Technique, 2014
11. **Rakhi Bhardwaj,** Algorithm for Earthquake Early Warning System, 2014
12. **Neeti Bhargava,** Mathematical Modelling for Earthquake Prediction through Animal Abnormal Behaviour, 2014
13. **Col. A. K. Srivastava,** Seismic Microzonation of an Urban Habitat, 2014
14. **Rajeev Sachdeva,** Prediction of Strong motion parameters using ANN, 2015
15. **Narsihma**, Seismic risk assessment due to slope failures, 2016

***Ongoing-10***

1. **Chhavi,** Seismic Hazard Assessment using extreme events
2. **Neha,** Prediction of Strong Ground Motion
3. **Vaneeta,** Seismic Signal Processing
4. **Sunil Saini,** Source Characterization in Himalayas
5. **Shweta Bajaj,** Seisimc Hazard Assessment
6. **Rajni Modi**, Local Earthquake Tomography
7. **Manoj Kuri,** Hazard Zonation using SAR Interferometry
8. **Ritu Raj Nath,** Seismically induced Landslide Hazard Zonation
9. **Devi Lata Pegu,** Seismic hazard and risk assessment for NE Indian region.
10. **Priyanka Sharma,** Liquefaction studies for large deformations in deep soils.

**M. Tech**

* **Completed-** 54
* **Ongoing-** 04

**Master's Degree Supervision:**

1. **Singh Jalesh Santosh,** Estimation of bed rock depth using GPR, 2017
2. **Harshvardhan Singh**, Scaling Laws in Himalayas, 2017
3. **Kuldip Khichar**, Site Amplification &amp; Attenuation Studies for Garwal-Kumaun Himalaya, Delhi Region, 2017
4. **Rishi Grewal**, Seismic Risk Assessment of Srinagar city, Jammu and Kashmir, COEDMM, 2017
5. GPR Studies, 2016
6. **Ashish Kumar Verma,** Generation of Shake maps, 2016
7. **Rahul Kumar,** Seismic hazard analysis with moment release constraint in Kumaoun and Garhwal region, 2016
8. **Saurabh Kumar Mangal,** Evaluation of dynamic response of deep soils, 2016
9. **Ankita Prasun,** Seismic Risk Assessment due to Scenario Earthquake – A case study for Bihar Nepal 1934 Earthquake, 2016
10. **Ishan Roy,** Methodology for generation of Shakemaps for Delhi region, 2015
11. **Deepika Sayana**, Deep soil effect, 2015
12. **Phibe Khalko,** Seismic Hazard assessment, 2015
13. **Shivani Chauhan,** Disaster management plan for Bihar, 2015
14. **Shivani Singh,** Effect of deep soils on strong ground motion, 2014
15. **Vaddi Monica,** Seismic Hazard estimation for south India, 2014
16. **Smita Singh,** Ground motion simulation using modified semi empirical methodology, 2014
17. **Mod Ahemad,** Amplification of strong ground motion due to deep soils, 2013
18. **Akhilesh Singh,** Seismic Hazard and Risk Assessment for Indo-Gangetic plains, 2013
19. **Chibi Rajram,** Earthquake Early Warning System for North India, 2013
20. **Rebecca RC,** Evaluation of strong ground motion prediction equations, 2012
21. **Nitesh Patel,** Earthquake Early warning system, 2012
22. **Saurabh Vijay,** Advances in SAR interferometry, 2012
23. **Harish Shinde,** Seismic Microzonation of Chandigarh City, 2011
24. **Manu Mohan,** A Neural Network Approach for Earthquake Early Warning System, 2011
25. **Amarjeet Birajdar,** Attenuation relationship for spectral displacement for Himalayan region, 2011
26. **Abhishek,** Integrated Geo exploration over Solani Knee band, NW Himalaya, 2010
27. **Venu Gopal,** Comparison of site specific PGA using neural networks and regression models, 2010
28. **A.** **Panchal,** Determination of design ground motion parameters for displacement based design, 2010
29. **Mansi Kulkarni,** Seismic Hazard Assessment using Non Poissonian Models, 2010
30. **Jainish Kotadia,** Development of spectral attenuation relationship for Indian region, 2007
31. **Shiva Kumar,** Application of artificial Neural Network for prediction of spectral acceleration in site specific, 2006
32. **Ravindra Golia,** Estimation of cumulative and conditional probabilities in Himalayas, 2006
33. **Anshul Kumar,** Seismic microzonation of rural areas, 2005
34. **Prashant Ambulkar,** Development of methodology for insurance tariff against earthquakes, 2005
35. **Shivani Sharma,** Reflection of seismic waves from non-welded interfaces, 2005
36. **Murugavel Raja,** Automatic Phase Picking of Seismic Signals using ANN, 2005
37. **Sonal Gupta,** Dem generation from SAR interferometry, 2005
38. **A. Ahemad,** Development of Automatic Phase pickers for earthquakes, 2004
39. **Atanu** **Bhattacharya,** Estimation of strong ground motion in Himalayas using strong ground motion and SRR data, 2004
40. **J. Niwas,** Development of world wide GIS earthquake based system, 2003
41. **Pratim Sil,** SAR interferrometry studies in Jharia Coal fields, 2003
42. **G. C. Joshi,** Seismic hazard analysis and risk computation, 2002
43. **K. Samba S Rao,** Seismic microzonation of Delhi, 2002
44. **Satendra Saini,** Development of attenuation relationship for Himalayan region using Indian Strong motion array data, 2002
45. **S. K. Gupta,** Remote sensing application in seismic hazard studies, 2001
46. **M. Khan,** Seismic hazard Analysis using GIS, 2001
47. **R. G. K. Nath,** Development of Attenuation relationship for Indian Region, 2000
48. **Venkata Raju,** Seismic hazard Analysis using Artificial Neural network, 2000
49. **S. Panda,** Design of an 10-storyed building in NE India at location C, Maharashtra, 1999
50. **R. G. K. Nath,** Design of an 10-storyed building in NE India at location B, Mehghalaya, 1999
51. **Amit Sahu,** Design of an 10-storyed building in NE India at location A, Assam, 1998
52. **Umakant Singh,** Design of an 8-storyed reinforced concrete office building in NE India, 1998
53. **R. Gautam,** Background noise characteristics of ground using broad band seismometer, 1998
54. **Kiran Pal,** Fabrication of interface unit between seismometer and recorder, 1998
55. **Kh. Ibophisak Singh,** Seismological studies and design of Earth and Rockfill dam, 1995
56. **R. Verma,** Determination of coda magnitude of local earthquakes, 1991
57. **A Ghosh,** Automatic earthquake recognition, 1990
58. **Pravesh Gupta,** Design and Fabrication of an instrument for the measurement of ground conductivity, 1989

**Conference Organised**

* **Co-Chairman** :6th International Conference on Recent Adavnces in Geotechnical Earthquake Engineering, 2016, Greater Noida
* **Organizing Secretary** : 14 Symposium on Earthquake Engineering, 2010
* **Organizing Secretary** : 13 Symposium on Earthquake Engineering, 2006,
* **Organizing Secretary** : 12 Symposium on Earthquake Engineering, 2002
* **Organizing Secretary** : Indo Norwegian Workshop

Collaboration:

* Indo Norwegian Project (2003-2015)
* Indo Taiwanese Project (2013-2015)
* Indo Mexican project on site characterization in New Delhi, 2009-2011.
* Indo Norwegian Project on seismic Risk Assessment, 2006-2010
* Indo Norwe
* gian Programme on Institutional Cooperation on Earthquake Engineering, 2003-2006
* Seismic Hazard estimation of KGDVI site, NGI, Norway
* Seismic Hazard estimation of KGDIII site, NGI, Norway
* Conducted UNESCO Course on Seismology and Seismic Risk Assessment, Nov 04 to Dec 06, 1993; 30 participants from 23 countries and faculty from 3 countries participated

Books Authored:

* Proceedings, 15th Symposium on Earthquake Engineering – 15SEE, 2014, Vol I, pp 1-438, Published by Department of Earthquake Engineering, IIT Roorkee.
* Proceedings, 15th Symposium on Earthquake Engineering – 15SEE, 2014, Vol II, pp 439-1135, Published by Department of Earthquake Engineering, IIT Roorkee.
* Proceedings, 14th Symposium on Earthquake Engineering- 14SEE, Vol I, 2010,pp1-690 , Published by Department of Earthquake Engineering, IIT Roorkee
* Proceedings, 14th Symposium on Earthquake Engineering- 14SEE, Vol II, 2010,  691-1459, Published by Department of Earthquake Engineering, IIT Roorkee
* S. Gupta, M. K. Arora, M. L. Sharma (2006). Surface displacement studies using differential SAR interferometry: an overview, Disaster forewarning diagnostic methods and management, Kogan, Felix; Habib, Shahid ;Hegde, V. S.;Matsuoka, Masashi, SPIE, ISBN 0819465194
* Proceedings, 13th Symposium on Earthquake Engineering – 13SEE, Vol I, 2006, pp 1-616, Published by Department of Earthquake Engineering, IIT Roorkee.
* Proceedings, 13th Symposium on Earthquake Engineering- 13SEE, Vol II, 2006,  617-1468, Published by Department of Earthquake Engineering, IIT Roorkee
* Proceedings, 12th Symposium on Earthquake Engineering – 12SEE, 2004, Vol I, pp 1-713, Published by Department of Earthquake Engineering, IIT Roorkee.
* Proceedings, 12th Symposium on Earthquake Engineering- 12SEE, 2004,  Vol II, 714-1587, Published by Department of Earthquake Engineering, IIT Roorkee.
* A report on Chamoli Earthquake of March 29, 1999, 2000, Published by Department of Earthquake Engineering, University of Roorkee.

**Recent publications relevant for the proposed project**

**Journals - 82**

1. Devi, vaneeta and M. L. Sharma (2016) Spectral Estimation of Noisy Seismogram using Time-Frequency Analyses, IJGEE, Volume 7, Issue 1, 19-31.
2. Das, Ranjit, M. L. Sharma and H. R. Wason (2016) Probabilistic Seismic Hazard Assessment for Northeast India Region, Pure and Applied Geophysics, 173(8), 2653-2670.
3. Devi, Vaneeta and M. L. Sharma (2016) Recent Spectral Decomposition Techniques and Its Applicationsin Analysis of Seismological Data: A Review, International Journal of Innovative Research in Science, Engineering and Technology, 5(1), 213-220.
4. Kuri, Manoj, Atanu Bhattacharya, Manoj K Aroora and M. L. Sharma (2016). Time series insar techniques to estimate deformation in a landslide-prone area in Haridwar region, India, Geoscience and Remote Sensing Symposium (IGARSS), 2016 IEEE, 6839-6842.
5. Bhardwaj, Rakhi, M. L. Sharma, Ashok Kumar (2016) Multi-parameter algorithm for Earthquake Early Warning, Geomatics, Natural Hazards and Risk, pp. 1242-1264.
6. Joshi, A., Monu Tomer, Sohan Lal, Sumer Chopra, Sandeep Singh, Sanjay Prajapati, M.L. Sharma and Sandeep (2016) Estimation of the source parameters of the Nepal earthquake from strong motion data, Natural Hazard, 83(2), pp. 867-883.
7. Bhattacharya, Atanu, Kriti Mukherjee, Manoj Kuri, Malte Vöge, M. L. Sharma, M. K. Arora, Rejinder K Bhasin (2015) Potential of SAR intensity tracking technique to estimate displacement rate in a landslide-prone area in Haridwar region, India, Natural Hazards, pp. 1-21.
8. Jakka, R.S., M. Hussain and M.L. Sharma (2015) Effects on amplification of strong ground motion due to deep soils, Geomechanics and Engineering, 8(5),pp. 663-674.
9. Joshi, A., Chun-Hsiang Kuo, Piu Dhibar, M.L. Sharma, Kuo-Liang Wen, Che-Min Lin (2015) Simulation of the records of the 27 March 2013 Nantou Taiwan earthquake using modified semi-empirical approach, Natural Hazards, pp. 1-26
10. Bhattacharya, A., M. K. Arora and M. L. Sharma, M. Voge and R. Bhasin (2014) Surface displacement estimation using space born SAR interferometry in a small portion along Himalayan Frontal Fault, Optics and Lasers in Engineering, 53, 164-178.
11. Das, Ranjit, H, R, Wason and M. L. Sharma (2014) Reply to comments on General orthogonal regression relations between body wave and moment magnitudes by Das, Ranjit, H, R, Wason and M. L. Sharma, by Paolo Gasperini and Barbara Lolli, Seismological Research letters, Vol. 85, No. 2, 352-353 (Impact factor : 1.826).
12. Das, Ranjit, H, R, Wason and M. L. Sharma (2014) Reply to Comment on ‘Magnitude conversion problem using general orthogonal regression, by Paolo Gasperini and Barbara Lolli, Geophysical Journal International 196 (1), 628-631.
13. Das, Ranjit, H, R, Wason and M. L. Sharma (2014) Unbiased estimation of moment magnitude from body and surface wave magnitude, Bull. Seis. Soc. America, (Accepted).
14. Herbindoo, A, Susheel Kumar and M. L. Sharma (2014) Earthquake ground motion predictive equations for Garhwal Himalaya, India, Soil Dynamics and Earthquake Engineering, (Accepted)
15. Bhardwaj R, A. Kumar and M. L. Sharma (2013) Inclusion of Q-value in parameters for Earthquake Early Warning Systems, Disaster Advances, Vol 6(5), 54-60.
16. Bhardwaj R, A. Kumar and M. L. Sharma (2013) Root Sum of Squares Cumulative Velocity: An Attribute for Earthquake Early Warning, Disaster Advances, Vol 6(3), 24-31.
17. Bhattacharya, A., M. K. Arora and M. L. Sharma (2013), Usefulness of Adaptive Filtering for Improved Digital Elevation Model Generation, Journal of the Geological Society of India, Vol. 82, 153-161.
18. Bhattacharya, A., Malte Vöge, M. K. Arora, M. L. Sharma and R. K. Bhasin (2013), Surface displacement estimation using multi-temporal SAR Interferometry in a seismically active region of the Himalaya, Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards, <http://dx.doi.org/10.1080/17499518.2013.798185>, Vol 7, Issue 3, 184-197.
19. Das, Ranjit, H, R, Wason and M. L. Sharma (2013) General orthogonal regression relations between body wave and moment magnitudes, Seismological Research letters, Vol. 84, No. 2, 219-224 (Impact factor : 1.826).
20. Maheshwari, B. K. A.K. Mahajan, M.L. Sharma, D.K. Paul, A.M. Kaynia and Conrad Lindholm (2013) Relationship between Shear Velocity and SPT Resistance for Sandy Soils in the Ganga basin, Int Journal of Geotechnical Engineering, Vol 7, No 63, 63-70.
21. Maheshwari, B. K., M. L. Sharma, Y. Singh and A. Sinhval (2013) Geotechnical aspects of Sikkim earthquake of September 18, 2011, Indian Geotechnical Journal, April-June-2013, 43(2), 170-179.
22. Pareek, N., M. L. Sharma, M. K. Arora and S. Pal (2013) Inclusion of earthquake strong ground motion in a Geographic Information System based Landslide Susceptibility Zonation in Garhwal Himalayas, Natural Hazard, 65:739-765.
23. Pareek, N., S. Pal, M. L. Sharma, and M. K. Arora (2013) Study of effect of seismic displacements on landslide. susceptibility zonation (LSZ) in Garhwal Himalayan region of India using GIS and remote sensing techniques Computers & Geosciences, 61, 50-63.
24. Sharma, M, L., A. Sinvhal, Y. Singh and B. K. Maheshwari (2013) "Damage survey report for Sikkim earthquake of September 18, 201, Seismological Research Letters, Volume 84, Number 1, 49-56(Impact factor : 1.826).
25. Bhardwaj R., Sharma M.L. and Kumar A. (2012), “Earthquake magnitude prediction for real time EEW system: An automization from P-wave time window analysis”, Himalayan Geology, Vol. 34 (1), 2013, pp. 84-91.
26. Bhattacharya, A., M. K. Arora and M. L. Sharma (2012) Improved Digital Elevation Model creation using SAR Interferometry in plane and undulating terrains, Himalayan Geology, Vol. 33 (1), 2012, pp. 29-44.
27. Bhattacharya, A., M. K. Arora and M. L. Sharma (2012) Surface displacement measurements along Himalayan frontal fault using differential SAR interferometry, Natural Hazards, 64, 1105–1123.
28. Bhattacharya, A., M. K. Arora and M. L. Sharma (2012) Usefulness of SAR Interferometry for DEM Generation and Estimation of Land Surface Displacement in Jharia Coal Field Area, *Geocarto International*, Volume 27, Issue 1, February 2012, pages 57-77.
29. Das Ranjit, H, R, Wason and M. L. Sharma (2012), Magnitude conversion to unified moment magnitude using orthogonal regression relation *Journal of Asian Earth Sciences*(JAES), [Volume 50](http://www.sciencedirect.com/science/journal/13679120/50)(2), 44–51. (Impact factor 2.152)
30. Das Ranjit, H, R, Wason and M. L. Sharma (2012), Temporal and spatial variations in the magnitude of completeness for homogenized moment magnitude catalog for Northeast India, *Journal of Earth Sciences System (JESS)*, 121(1), 19–28. (Impact factor 0.82)
31. Das Ranjit, H. R. Wason and M. L. Sharma (2012), Homoginisation of earthquake catalogue for North East India and adjoining region, *Jour. of Pure and App. Geophysics* (PAGEOPH), V. 169, 725-731. (Impact factor 1.787)
32. Herbindu, A, M. L. Sharma and Kamal (2012) Stochastic ground-motion simulation of two Himalayan earthquakes: seismic hazard assessment perspectives, *Journal of Seismology*, Vol 16, 345-369.
33. Herbindu, A., Kamal and M. L. Sharma (2012) Site amplification and frequency-dependent attenuation coefficient at rock sites of Himachal region in NW Himalaya, India, Bull. Seis. Soc. Am. Vol 102, No. 4, 1497-1504.
34. Joshi, A, P. Kumari, S. Singh and M. L. Sharma (2012) Near-field and far-field simulation of accelerograms of Sikkim earthquake of September 18, 2011 using modified semi-empirical approach, Natural Hazards, 64:1029-1054.
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