

DEO PRAKASH VIDYARTHI

Professor

School of Computer and Systems Sciences,
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**PhD in Computer Science**

TEACHING EXPERIENCE

PG Twenty Seven Years**UG** Thirteen Years

RESEARCH EXPERIENCE

Twenty Seven Years

COURSES TAUGHT*Undergraduate* Operating System Concepts, Computer Organization & Architecture, Programming Languages, Discrete Mathematics*Postgraduate* Parallel & Distributed Systems, Algorithm Design, Advanced Computer Architecture, Operating Systems, Compiler Design, Graph Theory & Applications, Cloud Computing, Grid and Cloud Computing**FIELD OF RESEARCH INTEREST***Parallel & Distributed Systems, Grid Computing, Mobile Computing, Cloud Computing, Evolutionary Computing, Internet of Things (IoT)***MTech Supervision** 19**PhD Supervision** 12 + 3 (In Progress)**PROJECTS UNDERTAKEN***Designing Middleware for Resource Provisioning in Cloud Computing (23 Lac.)***RESEARCH GRANT**

At present, Rs. 23 lacks from UGC UPOE-II for a Project on Cloud Computing

MEMBER (SERVED) IN EDITORIAL BOARD

1. International Journal of Computer Science and Technology (ISSN 0973-3019) from Researchways Intellectual Forum
2. Research Journal Telecommunication and Information Technology (ISSN 1816-2738) from INSInet Publications
3. Australian Journal of Basic and Applied Sciences (ISSN 1991-8178) INSInet publication

4. International Journal of Computer and Electrical Engineering ISSN: 1793-8198 (Online Version); 1793-8163 (Print Version), Published by: International Association of Computer Science and Information Technology Press (IACSIT)
5. International Journal of Computer Theory and Engineering, SSN: 1793-821X (Online Version); 1793-8201 (Print Version), Published by: International Association of Computer Science and Information Technology Press (IACSIT)
6. International J. of Business Data Communication and Networks, IGI-Global, USA (ISSN: 1548-0631, EISSN: 1548-064X)
7. Information Engineering Letters, USA, ISSN: 2160-4114

MEMBER IN INTERNATIONAL PROGRAM COMMITTEE

1. National Conference on Methods and Models in Computing, Dec. 18-19, 2006, Jawaharlal Nehru University, New Delhi.
2. National Conference on Methods and Models in Computing, Dec. 13-14, 2007, Jawaharlal Nehru University, New Delhi.
3. National Conference on Methods and Models in Computing, Dec. 7-8, 2008, Jawaharlal Nehru University, New Delhi.
4. International Conference on Methods and Models in Computer Science, Dec. 14-15, 2009, Jawaharlal Nehru University, New Delhi.
5. International Congress on Pervasive Computing and Management, Dec. 12-14, 2008, India Habitat Centre, Lodhi Road, New Delhi.
6. 2nd International Congress on Pervasive Computing and Management, Dec. 12-14, 2009, Sydney, Australia.
7. International Conference on High Performance Computing, Network and Communication Systems, July, 7-10, 2008, Orlando, USA.
8. International Conference on High Performance Computing, Network and Communication Systems, July, 11-14, 2009 Orlando, USA.
9. 24th International Symposium on Computer and Information Sciences, Sep. 14-16, 2009, Northern Cyprus Campus.
10. Workshop on Information System in Distributed Environment Held in conjunction with OTM'09, Nov 1-6, 2009, Vilamoura, Algarve-Portugal
11. International Congress on Pervasive Computing and Management, Dec. 12-14, 2008, December 10-12, 2009, Sydney, Australia.
12. International Conference on High Performance Computing Systems, July, 12-14, 2010 Orlando, USA.
13. 2nd International Workshop on Information Systems in Distributed Environment (ISDE'10) 25-29 October 2010 Crete, Greece
14. 2nd International Conference on Methods and Models in Computer Science, Dec. 13-14, 2009, Jawaharlal Nehru University, New Delhi.
15. IEEE International Conference INDICON 2010, Kolkata, Dec. 17-19.
16. International Conference on Communication Computing & Security, Rourkela, Feb. 12-14, 2011

17. Australasian Telecommunication Networks and Applications Conference (ATNAC 011) 9-11 NOVEMBER 2011, Melbourne, Australia
18. 3rd International Workshop on Information Systems in Distributed Environment (ISDE'11) Crete, Greece, Oct 17-21, 2011
19. Fourth International Workshop on Information Systems in Distributed Environment (ISDE'13), Graz, Austria
20. Third International Conference on Big Data Analytics, 2014, December 20-23 2014, Indian Institute of Technology, Delhi
21. 6th International Conference on Cloud Computing and Big Data, CCBD 2015 Nov. 4th - Nov. 6th, 2015, Taipei
22. Ninth IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), December 15-18, 2015, Indian Statistical Institute, Kolkata 700108, India
23. Sixth International Workshop on Information Systems in Distributed Environment (ISDE'15), Rhodes, Greece, 26-30 October 2015
24. INTERNATIONAL WORKSHOP ON BRAIN-INSPIRED COMPUTING (BIC-2015), Cetraro, Italy, July 6-10, 2015
25. International Conference on Computational Intelligence in Data Mining (ICCIDM-2015), RIT, Odisha, December 5-6, 2015
26. 6th International Conference on Cloud System and Big Data Engineering (CONFLUENCE-2016), Amity University, January 14-15, 2016
27. National Seminar on "A Step towards Soft Computing: Techniques and Applications", Deen Dayal Upadhyaya College, Delhi, 18th-19th March 2016
28. 7th International Conference on Cloud System and Big Data Engineering (CONFLUENCE-2017), Amity University, January 12-13, 2017
29. International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2016), University of Allahabad, Allahabad, March 25-27, 2016
30. 7th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2016) August 22, 2016
31. 8th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2017) 21-22 August, 2017
32. International Conference on Recent Advancement in Computer And Communication (Ic-Rac-2017), Bhopal, India, May 26-27, 2017
33. 8th International Conference on Cloud System and Big Data Engineering (CONFLUENCE-2018), Amity University, January 11-12, 2018
34. Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2018), Singapore, August 27-28, 2018

MEMBER IN INTERNATIONAL SOCIETY

1. IEEE
2. ACM
3. International Society of Research in Science and Technology (ISRST), USA

4. International Association of Computer Science and Information Technology (IACSIT), Singapore (Senior)
5. International Association of Engineers (IAENG)

CONFERENCE/SEMINAR/COURSES ORGANIZED

1. National Seminar on Intelligent Computing and Software Engineering, IT, Banaras Hindu University, Varanasi, INDIA, 25-26 March 2000.
2. National Seminar on Methods and Models in Computing, December 18-19, 2006, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
3. National Seminar on Methods and Models in Computing, December 13-14, 2007, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
4. National Seminar on Methods and Models in Computing, December 7-8, 2008, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
5. International Conference on Methods and Models in Computer Science, Dec. 14-15, 2009, Jawaharlal Nehru University, New Delhi.
6. 2nd International Conference on Methods and Models in Computer Science, Dec. 13-14, 2010, Jawaharlal Nehru University, New Delhi.
7. 14th Refresher Course in Computer Science & Information Technology, Academic Staff College, Jawaharlal Nehru University, New Delhi, 27th August-23rd September, 2011 (Course Coordinator).
8. International Research Workshop in Cloud Computing, Jawaharlal Nehru University, New Delhi, September 27-28, 2014 (Coordinator).
9. International Research Workshop in Cloud Computing, Jawaharlal Nehru University, New Delhi, December 22-23, 2015 (Coordinator).
10. International Research Workshop in Cloud Computing, Jawaharlal Nehru University, New Delhi, December 22-23, 2016 (Coordinator).
11. Global Initiative on Academic Network (GIAN) on Cloud Data Center Service Provisioning: Theoretical and Practical Approaches Jawaharlal Nehru University, New Delhi, Jan. 29-Feb. 9, 2018 (Coordinator).

ATTENDANCE AT INTERNATIONAL/ NATIONAL CONFERENCES

1. International Conference on Cognitive Systems, 12-15 Dec. 1997, New Delhi, INDIA.
2. International Symposium on Methods and Models in Automation and Robotics, 25-29 Aug. 1998, Szczecin, POLAND.
3. National Symposium on Recent Trends in Information Technology, PSG College of Technology, Coimbatore, INDIA, 20-21 Feb. 1997.

4. National Symposium on Emerging Trends in Electronics and Computer Science, Dr. RML Avadh University, Faizabad, INDIA, 10-11 March 1999.
5. SASESC-2000, DayalBagh Educational Institute, Agra, INDIA, 5-6 March 2000.
6. National Seminar on Intelligent Computing and Software Engineering, IT, Banaras Hindu University, Varanasi, INDIA, 25-26 March 2000.
7. National Seminar on Methods and Models in Computing, December 18-19, 2006, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
8. National Seminar on Methods and Models in Computing, December 13-14, 2007, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
9. International Conference on High Performance Computing, Networking, and Communication Systems (HPCNCS-08) to be held from 07-10, July, 2008 at Orlando, Florida, USA.
10. 2nd Int. Conference on Information and Multimedia Technology (ICIMT 2010), Dec. 28-30, 2010, Hong Kong, China.
11. Third International Conference on Big Data Analytics, 2014, December 20-23 2014, Indian Institute of Technology, Delhi
12. INTERNATIONAL WORKSHOP ON BRAIN-INSPIRED COMPUTING (BIC-2015), *Cetraro, Italy, July 6-10, 2015*
13. National Seminar on "A Step towards Soft Computing: Techniques and Applications", Deen Dayal Upadhyaya College, Delhi, 18th-19th March 2016
14. International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2016), University of Allahabad, Allahabad, March 25-27, 2016

INVITED TALKS

1. GA and its Applications, Defense Terrain Research Laboratory, DTRL, DRDO, Metcalf House, New Delhi. 2006
2. Improved Genetic Algorithm for Channel Allocation in Mobile Computing, National Conference on Emerging Trends in Software Engineering & Information Technology, Gwalior Engineering College, Gwalior (M.P.) 2007
3. Improved Genetic Algorithm for Channel Allocation, National Conference on Advance Computing and Communication, Invertis Institute of Engineering and Technology, Bareilly, (U.P.), August 24-25, 2007.
4. Channel Allocation in Mobile Computing, National Conference on Information security and Mobile Computing, ABES Engineering College, Ghaziabad (U.P.), Feb. 3-4, 2008.
5. Channel Allocation in Mobile Computing using GA, Faculty Development Program on Mobile and Wireless Networks, ABV Indian Institute of Information Technology, Gwalior, 14 Oct. 2008.

6. Improved GA for Channel Allocation, Faculty Development Program on Network Technologies, University School of Information Technology, Guru Gobind Singh Indraprastha University, Delhi, 24 Dec., 2008.
7. Modified Genetic Algorithm, National Conference on Advanced Computing and Communication Technology, ABES Engineering College, Ghaziabad. 6-7, Feb., 2009
8. GA and its Applications, National Seminar on New Paradigms in Computing, Bhai Parmanand Institute of Business Studies, Govt. of NCT of Delhi, Delhi, 25 Feb. 2009.
9. Computer Design: Past, Present and Future, Orientation Program in Role of ICT Technologies in Education, Academic Staff College, Banaras Hindu University, Varanasi (UP), June 8, 2009.
10. Multicore Systems: An Overview, Refresher Course in Computer Science, Delhi University, Delhi, January 5, 2010
11. Genetic Algorithms and its Applications, Faculty Development Program on Soft Computing techniques and its Engineering Applications, Madhav Institute of Technology and Sciences, Gwalior, January 3, 2010.
12. Modified Genetic Algorithm, National Conference on Advanced Computing and Communication Technology, ABES Engineering College, Ghaziabad. 6-7, Feb., 2009
13. "From Sequential to Cloud Computing: A Journey", ABV-Indian Institute of Information Technology and Management, Gwalior (MP) on 19 Aug. 2011
14. "Evolution in Computer Systems", BBDIT, Ghaziabad on 14th Oct. 2011.
15. "Genetic Algorithm: How it works", in Faculty Development Program at Madhav Institute of Technology, Gwalior on 15th Dec. 2011
16. "Computer Systems: Past Present and Future", Fairfield Institute of technology and Management, Kapasheda, Delhi, 15th Feb. 2012
17. "Genetic Algorithm: How it works", Workshop on Soft Computing Techniques, South Asian University, New Delhi, September 7, 2012.
18. "Basics of Genetic Algorithm", Refreshers Course on ICTA, Academic Staff College, Banaras Hindu University, Varanasi, October 5, 2012
19. "Computer Systems: Past Present and Future", Refreshers Course on ICTA, Academic Staff College, Banaras Hindu University, Varanasi, October 5, 2012
20. "An Introduction to Cloud Computing" 11th National Seminar on Emerging Advances in Information Technology ITS, Mohan Nagar Ghaziabad, March 16, 2013.
21. "Issues in Cloud Computing" International Workshop on "Data Curation in the University: Libraries, Research, and Learning" Jawaharlal Nehru University, New Delhi, India, March 25, 2013.
22. "Research Issues in Cloud Computing" in National Conference on Innovative Trends in Signal Processing & Networking, Shri Ram Murti Smarak Women's College of Engg. & Tech, Bareilly UP, 13th April, 2013.
23. "Issues in Parallel/Distributed Systems" at Babu Banarasi Das Institute of Technology, Ghaziabad, 30th August, 2013.

24. "GA to Quantum GA" in Workshop on Advances in Soft-Computational Technique for Image Processing for Defence application, at Neuro-Computing and Simulation Department, INMAS, DRDO, Timarpur, Delhi, 31st October, 2013.
25. "Research Issues in Cloud Computing" in Training Program on Cloud Computing at Gitarattan International Business (GiBS) Rohini, Delhi, 16th November, 2013.
26. "Grid Computing: An Infrastructure for High Performance Computing" at Deen Dayal Upadhyaya College, Delhi University, February 22, 2014.
27. "Issues in Parallel and Distributed Systems" Symposium on Distributed System at Gitarattan International Business (GiBS) Rohini, Delhi, 29th March, 2014.
28. "Grid Computing: An Infrastructure for High Performance Computing" 4th International Conference on Software Solutions, E-Learning, Computer Sciences, Information & Communication Technology, 14 June, 2014. Krishi Sanskriti
29. "Genetic Algorithm a tool for research", Workshop on Research tools in IT, Ambedkar University, Lucknow, 24 September, 2014
30. "Genetic Algorithm: How to Apply", IEEE Computational Intelligence Workshop Indian Institute of Information Technology, Allahabad, 15 October 2014
31. "Research Issues in Parallel/Distributed Systems" South Asian University, New Delhi, November 12, 2014
32. "Issues and Challenges in Mobile Computing" in National Conference on Computer Networking and Information Security at SRMS Women's College of Engineering and Technology, Bareilly, 22nd November, 2014
33. "Energy Efficient Mobile Computing" in National Conference on Recent Advances in Electronics and Computer Engineering (RAECE-2015), Indian Institute of Technology, Roorkee, 14th February 2015
34. "Research Issues in Cloud Computing" in International Conference on Emerging Trends of Engineering, Science, Management and Its Applications (ICETESMA15), JNU, March 1, 2015
35. "Research Issues in Cloud Computing" in International Conference on Advances in Computer Science and Engineering (ICACEA-15), IMS Engineering College, Ghaziabad, March 20, 2015
36. "Cloud Computing: A Future Computing Infrastructure" Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi, March 21, 2015.
37. "Genetic Algorithm" Int. Workshop on Brain Inspired Computing, July 6-10, 2015 Cetraro, Italy.
38. "Cloud Computing", National Conference in Emerging Trends in Computer and IT, Sri Guru Angad Dev College, Khadur Sahib, Taran Taran, October 31, 2015.
39. "Issues in Cloud Computing", ABV-Indian Institute of Information Technology and Management, Gwalior (MP) on November 20, 2015
40. "Cloud Computing: An Introduction" South Asian University, New Delhi, November 23, 2015
41. "Green Computing: Few Grid Scheduling Models" Seminar on Global Development and Sustainable computing, MATS University, Raipur, February 6, 2016

42. "Issues and Challenges in Cloud Computing", Workshop on Cloud Computing and Big Data Analytics, Institute of professional Excellence & Management, Ghaziabad, 26th Feb. 2016.
43. "Genetic Algorithm", National Seminar on "A Step towards Soft Computing: Techniques and Applications", Deen Dayal Upadhyaya College, Delhi, 18th-19th March 2016
44. "Green Computing: Few Scheduling Models", International Conference on Advances in Computing, Control and Communication Technology (IAC3T-2016), University of Allahabad, Allahabad, March 25-27, 2016
45. "Cloud Computing", National Seminar on "Big Data and Cloud, MERI College of Engineering & Technology, Janakpuri, New Delhi, 2nd April 2016
46. "Cloud Computing: What, Why and How?", Refresher Programme on ICT in ODL for the Teachers and Academics of IGNOU, New Delhi, 22nd July 2016
47. "Research Issues in Cloud Computing", International Conference on Advanced Computing and Software Engineering (ICACSE-16) at Kamla Nehru Institute of Technology, Sultanpur (U.P.), on October 14-15, 2016.
48. "Modified Genetic Algorithm", Department of Computer Science, Jamia Milia Islamia, Delhi, November 24, 2016
49. "Cloud Computing: An Introduction", ARSD College, Delhi University, Delhi, March 22, 2017
50. "Cloud Computing: Issues and Challenges", National Conference on Communication, Network and Cyber Security, Amity University, Gwalior, April 13, 2017
51. "Improved Genetic Algorithm and How to apply", Workshop on Machine Learning and Data Analytics, Indian Institute of Information Technology, Allahabad, 15 July 2017
52. "Internet of Things: A Future IT Scenario" Faculty Development Programme on Internet of Things for Smart Living, Department of Computer Science, Banasthali University, Banasthali, Rajasthan, India September 1, 2017
53. "Research Issues in Cloud Computing" Faculty Development Programme on Internet of Things for Smart Living, Department of Computer Science, Banasthali University, Banasthali, Rajasthan, India September 1, 2017
54. "Improved Genetic Algorithm for Channel Allocation in Mobile Computing", IEEE Hyderabad section, Hyderabad Central University, September 22, 2017
55. "Improved Genetic Algorithm for Channel Allocation in Mobile Computing", International Workshop on Computational Intelligence and Machine Learning, South Asian University, New Delhi, December 15, 2017.
56. "Internet of Things: A Future IT Scenario" 1st North Indian Science Congress, Babasaheb Bhimrao Ambedkar University, Lucknow, January 11, 2018.
57. "Internet of Things: A Future IT Scenario", International MDP on Budgeting, Accounting & Financial Management in Government Sector, National Institute of Financial Management, Faridabad, January 19, 2018
58. "Cloud Computing in Financial Sectors", International MDP on Budgeting, Accounting & Financial Management in Government Sector, National Institute of Financial Management, Faridabad, January 19, 2018

59. "Internet of Things: A Future IT Scenario", Annual Techfest Orrey'18, Computer Science Department, Miranda House, February 15, 2018
60. "Internet of Things: Next Evolution of the Internet" Expert Talk, Department of Computer Science, Kamla Nehru Institute of Technology, Sultanpur, UP, February 17, 2018
61. "An Overview of Heuristics and Metaheuristics", in Faculty Development Program on Soft Computing Approaches and its Applications (SCAA-18) organized by Department of Computer Science & Engineering, Institute of Engineering & Technology, Lucknow, March 12, 2018
62. "Genetic Algorithm: An overview", in Faculty Development Program on Soft Computing Approaches and its Applications (SCAA-18) organized by Department of Computer Science & Engineering, Institute of Engineering & Technology, Lucknow, March 12, 2018
63. "Improved Genetic Algorithm and Some GA Applications", in Faculty Development Program on Soft Computing Approaches and its Applications (SCAA-18) organized by Department of Computer Science & Engineering, Institute of Engineering & Technology, Lucknow, March 12, 2018
64. "Internet of Things: An Upcoming Technology", Vijyan Manthan, JNU, April 24, 2018
65. "Internet of Things & Cloud Computing", Workshop on Recent Trends in Computing and Computer Networking, National Institute of Technology, Arunachal Pradesh, September 6th, 2018
66. "Internet of Things: An Upcoming Technology", Shaheed Rajguru College of Applied Science for Women, University of Delhi, October 8, 2018

BOOKS AUTHORED

1. Scheduling in Distributed Computing Systems (A Research Monograph), (with co-authors), Springer, November, 2009, ISBN 978-0-387-74483-4
2. Technologies and Protocols for Future Internet Design: Reinventing the Web: Ed. D.P.Vidyarthi, IGI-Global (USA). Feb. 2012, DOI: 10.4018/978-1-4666-0203-8, ISBN13: 9781466602038, ISBN10: 1466602031, EISBN13: 9781466602045
3. Auction Based Resource Provisioning in Cloud Computing, (with co-authors), Springer, 2018, ISBN 978-981-10-8737-0

Publications

Peer Reviewed Journals

Forthcoming:

A Heuristic Channel Allocation Model with Multi Lending in Mobile Computing Network, Sunil Kumar Singh, Deo Prakash Vidyarthi, International Journal of Wireless and Mobile Computing, Inderscience.

1. A Green Routing Algorithm for IoT enabled Software Defined Wireless Sensor Network, Neetesh Kumar, Deo Prakash Vidyarthi, IEEE Sensors Journal, DOI: 10.1109/JSEN.2018.2869629, **IF:2.512**
2. A Hybrid Heuristic for Load-Balanced Scheduling of Heterogeneous Workload on Heterogeneous Systems, Neetesh Kumar, Deo Prakash Vidyarthi, The Computer Journal, 2018, doi:10.1093/comjnl/bxy085, **IF:0.792**
3. A model for virtual network embedding using Artificial Bee Colony, Isha Pathak, Atul Tripathi, Deo Prakash Vidyarthi, International Journal of Communication Systems, Wiley, Feb. 2018, DOI: 10.1002/dac.3573, **IF:1.006**
4. A Negotiation based Dynamic Pricing Heuristic in Cloud Computing, Gaurav Baranwal, Dinesh Kumar, Zahid Raza, Deo Prakash Vidyarthi, International Journal of Grid and Utility Computing (IJGUC), Inderscience Publishers, Vol.9, No. 1, 2018, pp. 83-96
5. A Hybrid Heuristic for QoS Aware Matching of User's Job and Virtual Machines in Cloud Environment, Devki Nandan Jha, Deo Prakash Vidyarthi, *Journal of Information Technology Research (JITR)* Volume 11, Issue 2, April-June 2018, pp. 88-109
6. A Cost-Effective Deadline-Constrained Dynamic Scheduling Algorithm for Scientific Workflows in a Cloud Environment, Jyoti Sahni, Deo Prakash Vidyarthi, IEEE Trans. On Cloud Computing, Vol. 6. No. 1, Jan-March, 2018, DOI: 10.1109/TCC.2015.2451649, pp. 2-18
7. A Model for Resource Management in Computational Grid using Sequential Auction and Bargaining Procurement, Achal Kaushik & Deo Prakash Vidyarthi, Cluster Computing, 2017, doi.org/10.1007/s10586-017-1467-2, **IF: 2.040**
8. A Survey on Spot Pricing in Cloud Computing, Dinesh Kumar, Gaurav Baranwal, Zahid Raza, Deo Prakash Vidyarthi, Journal of Networks and Systems Management, 2017 <https://doi.org/10.1007/s10922-017-9444-x>, **IF: 1.588**
9. Energy Efficient VM Placement for Effective Resource Utilization using Modified Binary PSO, Atul Tripathi, Isha Pathak, Deo Prakash Vidyarthi, The Computer Journal, 2017, Doi:10.1093/Comjnl/Bxx096 **IF 1.041**
10. Fault Tolerant Algorithms for Multiple Infrastructure Provider Cooperation in Network Virtualization Environment Based on Auctioning, Isha Pathak, Deo Prakash Vidyarthi, Wireless Pers Commun (2017) 97, DOI 10.1007/s11277-017-4585-5, pp. 1537–1561 **IF: 0.701**
11. A Cognitive Channel Allocation Model in Cellular Network using Genetic Algorithm, Singh, S.K., Kaushik, A. & Vidyarthi, D.P. Wireless Pers Commun, (October 2017), Volume 96, Issue 4, pp 6085–6110 doi: 10.1007/s11277-017-4465-z, **IF: 0.701**
12. An Energy Aware Cost Effective Scheduling Framework for Heterogeneous Cluster System, Neetesh Kumar, Deo Prakash Vidyarthi, Future Generation Computer Systems 71 (2017) 73–88, **IF: 2.786**
13. Heterogeneity-Aware Adaptive Auto-Scaling Heuristic for Improved QoS and Resource Usage in Cloud Computing, Jyoti Sahni, Deo Prakash Vidyarthi, Computing, (2017) 99:351–381, DOI 10.1007/s00607-016-0530-9, **IF: 0.872**

14. Integration of Analytic Network Process with SMI Framework for Cloud Service Provider Selection, Atul Tripathi, Isha Pathak, Deo Prakash Vidyarthi, *Concurrency and Computation: Practice and Experience*, DOI: 10.1002/cpe.4144, **IF:0.942**
15. A Model for Virtual Network Embedding across Multiple Infrastructure Providers using Genetic Algorithm, Isha Pathak, Deo Prakash Vidyarthi, *SCIENCE CHINA Information Sciences*, 2017, April 2017, Vol. 60 040308:1–040308:12, DOI: 10.1007/s11432-016-9015-3, **IF: 2.188**
16. A GA based energy aware scheduler for DVFS enabled multicore systems, Neetesh Kumar, Deo Prakash Vidyarthi, *Computing*, (2017) 99, pp. 955–977, doi:10.1007/s00607-017-0540-2, **IF: 0.872**
17. A Hybrid Heuristic Resource Allocation Model for Computational Grid for Optimal Energy Usage, Achal Kaushik, Deo Prakash Vidyarthi, *International Journal of Grid and Utility Computing*, Inderscience, Vol. 9, No. 1, 2018, pp. 51-74
18. A Systematic Study of Double Auction Mechanisms in Cloud Computing, Dinesh Kumar, Gaurav Baranwal, Zahid Raza, Deo Prakash Vidyarthi, *Journal of Systems and Software*, Elsevier, Volume 125, March 2017, Pages 234–255 **IF: 1.424**
19. A Truthful and Fair Multi-Attribute Combinatorial Reverse Auction for Resource Procurement in Cloud Computing, Gaurav Baranwal, Deo Prakash Vidyarthi, *IEEE Transactions on Services Computing* DOI: 10.1109/TSC.2016.2632719, **IF: 2.365**
20. A Secured Real Time Scheduling Model for Cloud Hypervisor Rekha Kashyap, Deo Prakash Vidyarthi, *International Journal of Cloud Applications and Computing*, Volume 6, Issue 4, October-December 2016
21. An energy-efficient reliable grid scheduling model using NSGA-II, Achal Kaushik, Deo Prakash Vidyarthi, *Engineering with Computers*, 2016 pp. 32:355–376, **IF: 1.451**
22. Workflow-and-Platform Aware task clustering for scientific workflow execution in Cloud environment, Jyoti Sahni, Deo Prakash Vidyarthi, *Future Generation Computer Systems*, Volume 64, 2016, pp. 61–74, **IF: 2.786**
23. Energy Aware Grid Scheduling for Dependent Task Using Genetic Algorithm Shiv Prakash, Deo Prakash Vidyarthi, *International Journal of Distributed Systems and Technologies*, Volume 7, Issue 2, April-June 2016, pp. 18-36
24. Improved auto control ant colony optimization using lazy ant approach for grid scheduling problem, Pawan Kumar Tiwari, Deo Prakash Vidyarthi, *Future Generation Computer Systems*, Elsevier, Volume 60, July 2016, pp. 78–89, **IF: 2.786**
25. A model for resource-constrained project scheduling using adaptive PSO, Neetesh Kumar, Deo Prakash Vidyarthi, *Soft Computing*, 2016 20: pp. 1565–1580, **IF: 1.271**
26. Admission control in cloud computing using game theory, Gaurav Baranwal, Deo Prakash Vidyarthi, *J of Supercomputing* 72, 2016, pp. 317–346 **IF:0.858**
27. A Green Energy Model for Resource Allocation in Computational Grid using Dynamic Threshold and GA, Achal Kaushik, Deo Prakash Vidyarthi, *Sustainable Computing: Informatics and Systems*, Elsevier, Volume 9, March 2016, Pages 42–56, **IF:0.798**
28. A cloud service selection model using improved ranked voting method, Gaurav Baranwal, Deo Prakash Vidyarthi, *CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE*, Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/cpe.3740 **IF: 1.322**
29. A novel hybrid PSO–GA meta-heuristic for scheduling of DAG with communication on multiprocessor systems, Neetesh Kumar, Deo Prakash Vidyarthi, *Engineering with Computers*, 32, 2016, pp.35–47, **IF: 1.451**
30. An energy-efficient reliable grid scheduling model using NSGA-II, Achal Kaushik, Deo Prakash Vidyarthi, *Engineering with Computers*, DOI 10.1007/s00366-015-0419-9, 2015, **IF: 1.451**

31. Independent Tasks Scheduling using Parallel PSO in Multiprocessor Systems, Sunil Kumar Singh, Deo Prakash Vidyarthi, International Journal of Grid and High Performance Computing, 7(2), April-June 2015, pp.1-17
32. A fair multi-attribute combinatorial double auction model for resource allocation in cloud computing, Gaurav Baranwal, Deo Prakash Vidyarthi, The Journal of Systems and Software Vol. 108, 2015, pp. 60-76, **IF: 1.352**
33. A Cost-Effective Deadline-Constrained Dynamic Scheduling Algorithm for Scientific Workflows in a Cloud Environment, Jyoti Sahni, Deo Prakash Vidyarthi, IEEE Trans. On Cloud Computing, 2015 DOI: 10.1109/TCC.2015.2451649
34. An Optimal Virtual Network Mapping Model Based on Dynamic Threshold, Isha Pathak, Deo Prakash Vidyarthi, Wireless Pers Commun, August 2015, Volume 83, Issue 3, pp 2381-2401, **IF: 0.951**
35. A Heuristic Channel Allocation Model Using Cognitive Radio, Deo Prakash Vidyarthi, Sunil Kumar Singh, Wireless Pers Commun, December 2015, Volume 85, Issue 3, pp 1043-1059, **IF: 0.951**
36. A Green Energy Model for Resource Allocation in Computational Grid, Achal Kaushik, Deo Prakash Vidyarthi, The Computer Journal, Vol. 58, No.7, 2015 1530-1547, **IF: 1.024**
37. A model for resource management in computational grid for real-time jobs using game theory, Achal Kaushik and Deo Prakash Vidyarthi, Int. J. Grid and Utility Computing, Vol. 6, Nos. 3/4, 2015, pp. 232-248
38. Maximizing Availability for Task Scheduling in Computational Grid using GA, Shiv Prakash, Deo Prakash Vidyarthi, Concurrency and Computation: Practice and Experience, Volume 27, 2015, pp. 193-210, **IF: 1.322**
39. A Graph Theoretic Algorithm for Virtual Network Embedding, Isha Pathak, Deo Prakash Vidyarthi, International Journal of Business Data Communications and Networking, Volume 10, issue 2, April-June 2014, pp.1-14
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