JSS Mahavidyapeetha

JSS Academy of Technical Education

Department of Computer Science & Engineering

www. jssaten.ac.in

FACULTY PROFILE

Department: Computer Science and Engineering

1. Personal Details

NAME	Dr Vikram Bali
DEPARTMENT	Computer Science and Engineering
DESIGNATION	Prof.(Dr.)Vikram Bali, HOD and Professor
PHONE	09891372928
EMAIL ID	hodcse@jssaten.ac.in
Date of Joining (JSSATEB)	7-5-2018

2. Experience

Total Experience in Years	Teaching: 20 Years	Industry:	Research: 0 Years

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Computer Engineering	2000		Kurukshetra University, Kurukshetra
M.E.	Computer Science	2011		Panjab University
Ph.D.	Computer Science & Engineering	2016		Banasthali University
Post Doc.				

4. Research & Publications

Papers Published in Web of Science indexed Journals	13	
Papers Published in SCOPUS indexed Journals	12	
Papers Published in other Journals	Nil	
Papers Presented in Conferences / Symposium	Nil	

Books / Book chapters Published	01
	Name of the book: Directional Location Verification and Routing in Vehicular Ad-Hoc Network Publisher: IGI Global Year of Publication: 2020

5. Research Guidance

PhD Guide? Give field & University	Yes,	University: a.
PhDs / Projects Guided	Ph.D. Awarded: Guiding:	Projects at Master's Level: Projects at Bachelor's Level:

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	"Automated Green Corridor For Life Saving Vehicles"	Patent No. 202011038836;Publication Date: 09.10.2020)
2	"Smart Dustbin- Sanitation & Solid-Liquid Waste Management".	(Patent No. 202011000793; Publication Date: 03.02.2020)
3	"Prediction Model for Assessing Performance of Academic Students"	Patent No. 202011043363; Publication Date: 23.10.2020
4	"Reduce, Re-Cycle and Reuse (RRR) Iot Intelligence Waste Management System"	Patent No. 202111001043; Publication Date: 15.01.2021
5	"Blockchain based Drug Traceability System for Pharmaceutical Supply Chain"	Patent No. 202011054439; Publication Date: 08.01.2021
6	"IOT Based Water Flow Regulator And Distributor for Auto Controlled Irrigation"	Patent No. 202011043364; Publication Date: 23.10.2020

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Nil				

7. Awards Received

1	Mentor of team Altruist of JSSATEN who won 1st Prize at Smart India Hackahton
2	Received Certificate of Honour from Department of Science & Technology, UP for Engineering Student's Project Grant Scheme 2019
3	Received Letter of Appreciation from Waljat College of Applied Science, Oman for validation of their research project sponsored by Research Council of Oman, 2019

4	Awarded Green Thinker Z-Distinguished Educator Award 2018 for remarkable contribution in the field of Computer Science and Engineering at 3rd International Convention on Interdisciplinary Research for Sustainable Development (IRSD) at Confederation of Indian Industry (CII), Chandigarh.
5	Awarded Outstanding Teaching Award for session 2015-16 at Panipat Institute of Engineering and Technology, Panipat, Haryana.
6	Awarded Outstanding Teaching Award for session 2014-15 at Panipat Institute of Engineering and Technology, Panipat, Haryana.
7	Awarded Outstanding Teaching Award for session 2007-08 at Ideal Institute of Technology, Ghaziabad

8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	FruitBlock: A Layered Approach to Implement Blockchain based Traceability System for Agri Supply Chain	Khanna, T., Nand, P. and Bali, V. (2020)	International Journal of Business Information Systems	Vol. 11, Issue 4	Scopus		ABDC
2	Identifying Non-Performing Students in Higher Educational Institutions Using Data Mining Techniques	Aggarwal, D., Mittal, S. and Bali, V.	International Journal of Information System Modeling and Design	Vol. 11, Issue 4	Both		ESCI
3	Stress Analysis Using Machine Learning Techniques	Sharma, T., Banerjee, K., Mathur, S. and Bali, V. (2020)	International Journal of Advanced Science and Technology	Vol. 29, No. 3	Scopus		
4	Multi-Criterion Decision Making for Wireless Communication Technologies Adoption in IoT	Juneja, A., Juneja, S., Bali, V. and Mahajan, S	International Journal of System Dynamics Applications (IJSDA), Vol. 10, Issue 1,		WoS		
5	Cancer Prediction Using Machine Learning Techniques Based on Clinical & Non-Clinical Parameters	Nagar, R., Aggarwal, D., Saxena, U. R. and Bali, V. (2020)	International Journal of Advanced Science and Technology	Vol. 29, No.4	Scopus		
6	Improving the Efficiency of Load Balancing and Site Selection of Electric Vehicle Charging Station using Dijkstra Algorithm	Bhardwaj, P., Bali, V. and Kaur, J. (2020)	JOURNAL OF CRITICAL REVIEWS	Vol. 7, Issue. 19,			

7	Early Prediction and Diagnosis for Cancer Based on Clinical and Non-Clinical Parameters: A Review	Nagar, R., Aggarwal, D., Saxena, U. R. and Bali, V. (2020)	International Journal of Grid and Distributed Computing	Vol. 13, No. 1	WoS		
8	Similarity Based DNA Compression Algorithm	Banerjee, K. and Bali, V. (2020)	EAI Endorsed Transactions on Pervasive Health and Technology	Volume 5, Issue 20(5)	Scopus		
9	Significance of Non-Academic Parameters for Predicting Student Performance Using Ensemble Learning Techniques	Aggarwal, D., Mittal, S. and Bali, V. (2020)	International Journal of System Dynamics Applications (IJSDA)	Vol. 10, Issue 3, Article 3	WoS		
10	User Based Load Visualization of Categorical Forecasted Smart Meter Data using LSTM Network	Kumar, A., Toorang, P. and Bali, V. (2020)	International Journal of Multimedia Data Engineering and Management	Volume 11, Issue 1	WoS		
11	A Novel Approach for Wind Speed Forecasting Using LSTM-ARIMA Deep Learning Models	Bali, V. ,Kumar, A. and Gangwar, S. (2020)	International Journal of Agricultural and Environmental Information Systems (IJAEIS)	Volume 11, Issue 3	WoS		
12	Permissioned Blockchain Model for End-to-End Trackability in Supply Chain Management	Khanna, T., Nand, P. and Bali, V. (2019)	International Journal of E-Colloboratio n (IJeC)	Volume 16, Issue 1	Both		
13	An Insight into Machine Learning Techniques for Predictive Analysis and Feature Selection	Aggarwal, D., Bali, V. and Mittal, S. (2019)	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol. 8, Issue 9S, pp. 342-349	Scopus		
14	Data Warehouse Testing And Security: A Conspectus	Mathur, S., Bali, V., Gupta, S.L., Pahwa, P., (2019)	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-8, Issue-9S	Scopus		
15	A Comparative Analysis Of Classification Algorithms for	Aggarwal, D., Mittal, S. and Bali, V	International International Journal of Recent	Volume-8, Issue-2S7	Scopus		

	Predicting The Performance of Students		Technology and Engineering (IJRTE)				
16	Comparative Analysis of Wind Speed Forecasting Using LSTM and SVM	Gangwar, S., **Bali, V.** and Kumar, A.	EAI Endorsed Transactions on Scalable Information Systems	Vol. 7, Issue 25(1), pp.1-9, **ISSN:** 2032-9407	WoS		
17	A Survey on Fatigue Detection of Workers using Machine Learning	Yadav, N., Banerjee, K. and **Bali,** (2020)	International Journal of E-Health and Medical Communications (IJEHMC), IGI Publications	Vol. 11, Issue 3	Both		
18	Fatigue Detection of Workers using Supervised Learning	Yadav, N., Banerjee, K. and **Bali,** (2019)	Biological Forum-International Journal	Vol. 11	WoS		
19	Storage and Retrieval of Software Component using Hadoop and MapReduce	Singh, S. and **Bali, V.** (2017)	International Journal of Engineering and Technology (IJET)	Vol. 9			
20	A Novel GSA-GVM Attribute Selection Algorithm for Movie Recommendation	Arora K., Singh S. and **Bali V.** (2017),	International journal of scientific research engineering and technology	Vol. 6, Issue 10,			
21	Detection of Attacks in Static Wireless Sensor Networks	Juneja S., Singh S. and **Bali V**. (2017)	International Journal of Advanced Research in Computer Science	Vol. 8, No.7			
22	Multi-Level Security Mechanism for Audio Steganography	Gupta S., Dhingra D., Gupta S.C. and **Bali V**	International Journal of Advanced Research in Education & Technology (IJARET)	Vol. 4, Issue 1			
23	Pragmatic Analysis on Malware Classification	Anjali, **Bali V**. and Singh S., (2017)	International Journal of Research in Applied Science in Engineering and Technology	Vol. 5, Issue 7			
24	Recommendation System: A Review Report	Arora K., **Bali V.** and Singh S. (2017)	International Journal of Advanced Research in	Vol. 8, No.7,			

			Computer Science				
25	A Brief Survey on Web Application Performance Testing Tools Literature Review	Arora I. and **Bali V**. (2015)	International Journal of Latest Trends in Engineering and Technology (IJLTET)	Vol. 5, Issue 3,			
26	Generating Test Cases from UML Class and Sequence Diagrams	Kaur D. and **Bali V**. (2015)	International Journal of Research in Computer Science and Electronics,	Vol. 4, Issue 1,			
27	COTS Evaluation & Selection Process in Design of Component based Software System: An Overview and Future Direction	**Bali, V.** and Madan, S. (2015)	Global Journal of Computer Science and Technology	Vol. 15, Issue 6			
28	Identifying And Classifying Factors For Evaluating The Success Of Software Developed By COTS Components	**Bali, V.** and Madan, S. (2015)	International Journal of Current Engineering and Technology	Vol. 5, No. 4			
29	A Study of Critical Success Factors in COTS based Software Development: TOPVEC Framework	**Bali, V.** and Madan, S. (2015)	Wulfenia Journal,	Vol. 22, No. 8			
30	Optimal Component Selection Based on Cohesion and Coupling for Component based Software System under Build-or-Buy Scheme	Jha P.C., **Bali V.,** Narula S. and Kalra M. (2014)	Journal of computational sciences, Elsevier	Vol. 5, pp 233-242	Scopus		
31	Muti-Criteria Optimization Approach for Component Selection under Build-or-Buy Scheme	Jha P.C., **Bali V.,** Narula S. and Kalra M. (2013)	Software Engineering : An International Journal (SEIJ)	Vol. 3, No. 2			

32	Goal Programming Approach for Selection of COTS Components in Designing a Fault Tolerant Modular Software System under Consensus Recovery Block Scheme	Jha P.C. and **Bali V.**	International Journal of Computer and Communication Technology(IJCCT)	Vol. 3, No. 1			
33	Component Selection in Designing Fault Tolerant Modular Software systems: An Overview and Future Directions	Jha P.C. and **Bali V.(2010)**	International Journal of Science, Technology and Management	Vol. 3, No. 1			
34	Development of Fault Tolerant System By Optimal Selection of COTS Components under Consensus Recovery Block	**Bali V.** and Srivastav V.K. (2010)	International Journal of Computer Engineering and Computer Application (IJCECA)	Vol. 1, No. 1,			

ii.National Journals

Sl. No.	**Title of the paper**	**Name(s) of Author(s)**	**Name of the Journal**	**Volume No. Issue No. Year**	**WOS / Scopus / Both**	**Impact Factor**	**Publisher**
Nil	**-**	**--**	**-**	**-**	**-**	**-**	

ii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Deep Learning based wind speed forecasting- A Review	V. Bali, A. Kumar, S. Gangwar, (2019)	International Conference, Confluence on Cloud Computing, Data Science & Engineering				
2	IFSOM: A Two Phase Framework for COTS Evaluation and Selection	Bali, V., Bali, S. and Madan, S. (2018)	International Conference on Communication, Computing and Networking (ICCCN-2018)				Springer Nature Singapore Pte. Ltd
3	A Novel Approach for Blastit-Induced Fly Rock Predication Based on Particle Swarm Optimization and	Kumar N., Mishra B., and Bali V. (2018)	International Conference on Recent Advancement in Computers and Communication	Chapter 3, Book Id: 448040_1_En, ISBN: 978-981-10-8197-2			Networks and Systems

	Artificial Neural Network						34, Springer Nature Singapore Pte. Ltd
4	A Review on Sentiment Analysis", International Conference on Communication	Gupta S., Pandey A. and Bali V. (2017)	Computing and Networking (ICCCN-2017)	ISBN: 978-8-193-38970-6.			
5	Genetic Programming and K-Nearest Neighbour Classifier based Intrusion Detection Model	Malhotra S., Bali V. and Paliwal K.K. (2017)	7th International Conference on Cloud Computing, Data Science and Engineering	E-ISBN: 978-1-5090-3519-9			
6	A Brief Review of Methods for Predicition of Flyrock in Blasting	Kumar N., Mishra B., and Bali V. and Paliwal K.K. (2017)	International Conference on Communication, Computing and Networking (ICCCN-2017)	ISBN: 978-8-193-38970-6			
7	Multi-criteria Optimization Approach for Component Selection in COTS Based Software System	Jha P.C., Bali V., Narula S. and Kalra M. (2013)	International Conference on Leveraging Operations and IT for Sustainable Development (ICOIT-2013)	Vol. 1, pp. 1-11,			Niruta Publications
8	Multi-criteria Optimization Approach for Component Selection Incorporating ICD and Reliability for Component Based Software System	Jha P.C., Bali V., Narula S. and Kalra M. (2012)	International Conference on Optimization Modelling and Applications (OPTIMA- 2012)	ISSN: 2249-9342			
9	Optimal Component Selection Based on Cohesion and Coupling for Component based Software System	Jha P.C., Bali V., Narula S. and Kalra M. (2014)	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SocProS 2012)	pp. 1499-1512, ISBN: 978-81-322-1601-8.			SpringerLink
10	A Chance Constraint Goal Programming Approach to Component Selection for a Fault Tolerant Modular Software System under Consensus Recovery Block Scheme	Jha P.C., **Bali V.** and Malik S.C. (2010)	International conference on "Operational Research for Urban and Rural Development (ORURD)				

iii. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Recent Advances in Computer Science and Allied Domains	Sharda University	08-06-2020
2	Global Pandemic Outbreak: Role of Technology & Automation	JSS Academy of Technical Education	01-06-2020
3	Cyber Security & Malware Analysis	CMR Engineering College, Hyderabad.	25-05-2020
4	Qualitative Research, Blogs Writing & Neuro Science in the Outbreak of COVID-19	JSS Academy of Technical Education	20-05-2020
5	NBA	Dr. D. Y. Patil School of Engineering & Technology, Pune	19-05-2020
6	Student Induction	Graphic Era Hill University, Bhimtal Campus, Nainital, Uttarakhand.	17-06-2019
7	Soft-Computing: Techniques, Tools & Applications	JSS Academy of Technical Education	11-06-2018
8	Optimization using MATLAB through ICT	NITTTR Chandigarh	17-07-2017
9	Virtual Labs	Institute of Engineering and Technology, Panipat	29-03-2017
10	Data Repository and Storage Management	NITTTR Chandigarh	01-08-2016
11	Total Quality Management, ISO 9000 and Basics of NBA Accreditation in Technical Institutions	NITTTR Chandigarh	05-05-2014
12	“Agile Software Development Methodology”	RKGIT Ghaziabad	03-05-2008
13	“Adhyayan”	IMS Engineering College, Ghaziabad	14-10-2006
14	Foundational Computer Science Courses – An Industry Perspective	INFOSYS Technologies Limited	20-2-2005

iv. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	"Soft-Computing: Techniques, Tools & Applications"	Dr. A.P.J. Abdul Kalam Technical University, Lucknow	11.06.2018 to 15.06.2018	Organizer
2	Global Pandemic Outbreak: Role of Technology & Automation	JSS Academy of Technical Education, Noida	01.06.2020 to 05.06.2020	Organizer
3	“Cloud Computing”	Panipat Institute of Engineering and Technology	22.03.2017	Organizer
4	"Cyber Crime and Forensic Tools"	Panipat Institute of Engineering and Technology, Panipat in collaboration with NITTTR Chandigarh	06.02.2016 to 10.02.2016.	Organizer
5	Cloud Computing Through ICT"	Panipat Institute of Engineering and Technology, Panipat in collaboration with NITTTR Chandigarh	05.12.2016 to 09.12.2016.	Organizer
6	Cyber Crime and Forensic Tools"	Panipat Institute of Engineering and Technology, Panipat in collaboration with NITTTR Chandigarh	27.01.2014 to 31.01.2014	Organizer

v. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Software Testing	NPTEL	2020	77%

10. Membership of Professional Bodies:

Professional Membership of IEEE (Senior Member)	94987748
Life Time Member of ISTE	LM 58487
Annual Member of Computer Science Teachers Association	198357986680
Life Time Member of International Computer Science and Engineering Society	7336
Life Time Member of Institute for Engineering Research and Publication	PMIN19435820

11. Any other information you will like to share about your professional experience