



**Pimpri Chinchwad Education Trust's  
Pimpri Chinchwad College of Engineering & Research  
Ravet, Pune**



**Academic Year:** 2021 - 22

**Faculty Profile**



<b>Name of Faculty:</b>	Mr. Vijay Arun Kotkar		
<b>Qualification:</b>	M.E.(CSE) Ph.D. Pursuing		
<b>Designation:</b>	Assistant Professor		
<b>Department:</b>	Computer Engineering		
<b>Date of Joining:</b>	16/08/2021		
<b>Experience:</b>	<b>Teaching:</b> 11.6 Years <b>Industry:</b> 06 Months <b>Research:</b> --		
<b>Research Areas / Area of Specialization</b>	Image Processing and Pattern Recognition		
<b>Courses / Subjects Taken:</b>	Object Oriented Programming, Software Modeling & Design, Software Engineering, Software Engineering & Project Management, Web Technology, System Programming & Operating System, Principles of Modern Compiler Design, Microprocessor, Microprocessor Interfacing Techniques, Microprocessor Architecture, Digital Signal Processing, Discrete Structures, Operating Systems, Advanced Unix Programming		
<b>IPR:</b>	<b>Title</b>	<b>Docker No./ Diary No.</b>	<b>Registered / Filed</b>
	Safety Band (Patent)	201721034495	Published
	System for Robust and Scalable Anomaly Detection in Video Surveillance (Patent)	202121033210	Published
	ECG Based Automatic and Dynamic System for Heart Disease Prediction (Patent)	202121035174	Filed
	Robust and Scalable Anomaly Detection in Video Surveillance (Copyright)	17734/2021-CO/L	Filed
<b>Research Publications:</b>			
<b>Journal Publications:</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Published in</b>
	2021	A New-fangled Corona virus coupled with Human Respiratory and AI in COVID-19 Discovery	Scopus Journal
	2021	An automatic pesticide sprayer to detect the crop	Scopus Journal

		disease using machine learning algorithms and spraying pesticide on affected crops	
	2021	Interactive Robot for Automated Question and Answer System	Scopus Journal
	2020	Machine Learning Based Traffic Anomaly Detection in Video Surveillance	Web of Science Journal
	2020	Scalable Anomaly Detection Framework in Video Surveillance using Keyframe Extraction and Machine Learning Algorithms	Scopus Journal
	2019	Particle Filtering Based Opticle Flow Computation Model for Crowd Anomaly Detection Using Gaussian Mixture Model	Scopus Journal
	2019	Anomaly Detection in Traffic Video Surveillance	UGC Care Journal
	2018	A Comparative Analysis of Machine Learning Based Anomaly Detection Techniques in Video Surveillance	Scopus Journal
<b>Conference Publications:</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Published in</b>
	2017	Analysis of Anomaly Detection Techniques in Video Surveillance	IEEE Conference
	2016	Handwritten Devanagari Numeral and Vowel Recognition using Invariant Moments	IEEE Conference
	2016	Camouflage Image Generation System for Security	IEEE Conference
	2013	Image Contrast Enhancement by Preserving Brightness using Global and Local Features	IEEE Conference
<b>Books Publication:</b>	"Image Contrast Enhancement", LAP Lambert Publication, Saarbrucken, Germany, ISBN: 978-3-659-51588-0.		
<b>Profile Link:</b>	<b>Scopus Profile:</b> <a href="https://www.scopus.com/authid/detail.uri?authorId=56374684000">https://www.scopus.com/authid/detail.uri?authorId=56374684000</a>  <b>Google Scholar Profile:</b> <a href="https://scholar.google.co.in/citations?user=VNJdOBwAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=VNJdOBwAAAAJ&amp;hl=en</a>  <b>Orchid Profile:</b> <a href="https://orcid.org/0000-0003-1236-9596">https://orcid.org/0000-0003-1236-9596</a>		
<b>H -Index:</b>	05		
<b>Product Developed:</b>	--		

<b>Certifications:</b>	<b>NPTEL Online Certification</b> on <i>Software Engineering</i> July-Oct 2018.
<b>Awards/Appreciation/Achievements:</b>	<ol style="list-style-type: none"> <li>1. <b>Certificate of Appreciation</b> for achieving outstanding result (90% &amp; above) in December 2019 examination of Savitribai Phule Pune University in the subject Object-Oriented Programming (TH).</li> <li>2. <b>Certificate of Appreciation</b> for achieving outstanding result (90% &amp; above) in December 2019 examination of Savitribai Phule Pune University in the subject Object-Oriented Programming (PR).</li> <li>3. <b>Certificate of Appreciation</b> for achieving outstanding result (90% &amp; above) in May 2018 examination of Savitribai Phule Pune University in the subject System Programming and Operating Systems (TH).</li> <li>4. <b>Certificate of Appreciation</b> for achieving outstanding result (80% &amp; above) in December 2017 examination of Savitribai Phule Pune University in the subject Principles of Modern Compiler Design (TH).</li> <li>5. <b>Certificate of Appreciation</b> for achieving outstanding result (80% &amp; above) in May 2017 examination of Savitribai Phule Pune University in the subject Microprocessor (TH).</li> <li>6. <b>Certificate of Appreciation</b> for achieving outstanding result (80% &amp; above) in May 2017 examination of Savitribai Phule Pune University in the subject Microprocessor Lab (PR).</li> <li>7. <b>Certificate of Recognition</b> for achieving outstanding result (90% &amp; above) in May 2017 examination of Savitribai Phule Pune University in the subject Computer Laboratory-I (PR).</li> <li>8. <b>Certificate of Recognition</b> for achieving outstanding result (90% &amp; above) in May 2017 examination of Savitribai Phule Pune University in the subject Computer Laboratory-I (OR).</li> <li>9. <b>Certificate of Recognition</b> for achieving outstanding result (90% &amp; above) in May 2013 examination of North Maharashtra University, Jalgaon in the subject Operating Systems.</li> <li>10. <b>First Prize</b> in National Level Student Paper Presentation (PG Student) at SSBT's COET Bambhori, Jalgaon on 2<sup>nd</sup> March 2013.</li> <li>11. <b>Certificate of Excellence</b> in National Creativity Aptitude Test 2012. (All India percentile in category 5 = 75.8)</li> <li>12. <b>Certificate of Recognition</b> for achieving outstanding result (90% &amp; above) in Oct 2012 examination of North Maharashtra University, Jalgaon in the subject Microprocessor-II.</li> <li>13. <b>Certificate of Recognition</b> for achieving outstanding result (90% &amp; above) in May 2012 examination of North Maharashtra University, Jalgaon in the subject Operating Systems.</li> <li>14. <b>First Prize</b> in National Level Student Paper Presentation (PG Student) at SSBT's COET Bambhori Jalgaon on 30<sup>th</sup> March 2012.</li> </ol>
<b>Membership:</b>	<p>Indian Society for Technical Education (<b>ISTE</b>)  International Association of Computer Science and Engineering (<b>IACSIT</b>)  International Association of Engineers (<b>IAENG</b>)</p>
<b>Industrial Training:</b>	--
<b>Resource Person /Expert Session/Jury Invited:</b>	<ol style="list-style-type: none"> <li>1. <b>Judge</b> for Technical event Paper Presentation organized by II<sup>nd</sup> Shift Polytechnic, JSPM's RSCOE Pune on 12<sup>th</sup> January 2019.</li> <li>2. <b>Judge</b> for Technical Paper Presentation event BITS N BYTES organized by AISSMS College of Engineering, Pune on 10<sup>th</sup> September 2018.</li> <li>3. <b>Expert Lecture</b> on "Software Quality Management" in II<sup>nd</sup> Shift Polytechnic JSPM's RSCOE Pune for TE Computer Engineering students on 3<sup>rd</sup> September 2018.</li> <li>4. <b>Judge</b> for Technical event Quiz Competition organized by II<sup>nd</sup> Shift</li> </ol>

	<p>Polytechnic, JSPM's RSCOE Pune on 15<sup>th</sup> February 2018.</p> <ol style="list-style-type: none"> <li>5. <b>Expert Lecture</b> on "Microprocessor 8085 &amp; its programming language" in AISSMS COE Pune for BE Production Sandwich students on 03<sup>rd</sup> August 2016.</li> <li>6. <b>Committee Member</b> of All India Students' Committee (AISC) for the session 2015-16 under The Institution of Engineers INDIA (IEI) Students' chapter.</li> <li>7. <b>Judge</b> for Technical event INNOVATION2K16 organized by Cummins College of Engineering for Women Pune on 11<sup>th</sup> &amp; 12<sup>th</sup> March 2016.</li> <li>8. <b>Session chair</b> for National Conference on "Towards Next Generation Machine Intelligence" (NCTNGMI-2015) organized by Department of Computer Engineering MIT AOE Pune on 11<sup>th</sup> September 2015.</li> <li>9. <b>Session chair</b> for National Conference on "Futuristic Computing Applications &amp; Machine Intelligence" (NCFCAMI - 2015) organized by Department of Computer Engineering MIT AOE Pune on 30<sup>th</sup> January 2015.</li> <li>10. <b>Trainer</b> for One Day Women's Training Programme on "Internet Applications" on 8<sup>th</sup> March 2013 organized by Department of Computer Engineering, SSBT's COET Bambhori, Jalgaon.</li> </ol>
<p><b>Workshop/FDP/STTP attended (more than a Week):</b></p>	<ol style="list-style-type: none"> <li>1. <b>One Week Program</b> on IP Literacy and Awareness organized by Ministry of Education's Innovation Cell on 15<sup>th</sup> to 23<sup>rd</sup> October 2020.</li> <li>2. <b>One Week FDP</b> on <i>LaTeX</i> organized by PCCOER, Ravet on 20<sup>th</sup> April to 27<sup>th</sup> April 2020.</li> <li>3. <b>One Week STTP</b> on <i>Problem Based Learning</i> by NITTTR, Kolkata through ICT mode, 02<sup>nd</sup> December to 06<sup>th</sup> December 2019.</li> <li>4. <b>One Week STTP</b> on <i>Effective Teaching</i> organized by NITTTR, Kolkata on 15<sup>th</sup> July to 19<sup>th</sup> July 2019.</li> <li>5. <b>One Week STTP</b> on <i>NBA Accreditation</i> by National Institute of Technical Teachers' Training and Research, Kolkata on 22<sup>nd</sup> to 26<sup>th</sup> April 2019.</li> <li>6. <b>One Week FDP</b> on <i>Data Sciences and Advanced Analytics using Statistica</i> organized by Computer Engineering Department at JSPM's RSCOE Pune on 18<sup>th</sup> to 23<sup>rd</sup> December 2017.</li> <li>7. <b>One Week FDP</b> on <i>Machine Learning Using Python</i> organized by Information Technology Department, MAEER's MIT College of Engineering Pune on 4<sup>th</sup> to 9<sup>th</sup> December 2017.</li> <li>8. ISTE Sponsored <b>One Week STTP</b> on Data Mining and Research approaches at P.E.S. College of Engineering, Aurangabad during 18<sup>th</sup> to 22<sup>nd</sup> Nov 2013.</li> <li>9. <b>Two Weeks ISTE Workshop</b> on <i>Database management Systems</i> conducted by Indian Institute of Technology, Bombay during 21<sup>st</sup> to 31<sup>st</sup> May 2013.</li> <li>10. <b>One Week FDP</b> on <i>Cloud Computing and its application Domain</i> organized by Department of Computer Engineering, SSBT's College of Engineering and Technology, Bambhori, Jalgaon in association with Computer Society of India during 21<sup>st</sup> to 25<sup>th</sup> Jan, 2013.</li> <li>11. <b>One Week FDP</b> on <i>LaTeX</i> organized by Department of Computer Engineering, SSBT's College of Engineering and Technology, Bambhori, Jalgaon during 2<sup>nd</sup> to 8<sup>th</sup> Jan 2012.</li> <li>12. <b>One Week FDP</b> on <i>OS &amp; Linux</i> organized by Department of Computer Engineering, SSBT's College of Engineering and Technology, Bambhori, Jalgaon during 3<sup>rd</sup> to 9<sup>th</sup> Jan 2011.</li> </ol>
<p><b>Event Organized Inter department/Inter college/ Other</b></p>	<p>--</p>

<b>recognized Industry/IIT's/NPTEL/SPOKE N TUTORIAL/ etc.:</b>	
<b>Event Organized in Department:</b>	--
<b>University level appointments:</b>	--
<b>Administrative Duties:</b>	--
<b>Academics Duties:</b>	--
<b>Any Other</b>	--