

Camera Ready Summary

Conference Name

IEEE International Conference on Emerging Engineering Technologies and Applications

Paper ID

402

Paper Title

Exploring the Impact of AI on Science Teaching Effective Pedagogical Strategies for Developing Digital Literacy Skills

Abstract

Digital innovations are proliferating throughout society and becoming a larger part of human life. It is difficult to conceive of an aspect of human behavior that is not being affected by digital technology. The recognized impacts are the apparent lack of digital literacy and lack of awareness of ethical conduct regarding artificial intelligence (AI) in teachers, which can be limitations for teaching and learning in a digital environment. This project aims to raise teachers' awareness of ethical conduct as it relates to AI and the broader digital landscape to help teachers amplify their digital literacy skills to improve the success of learning and support students' appropriate usage of technology. The first step in this study is to assess and investigate the use of AI practices to enhance high school teachers' digital literacy skills. The paper then discuss the important role that AI digital images play in enhancing high school teacher performance. Also followed by an embedded smart device as the arrangement in structuring a framework based on smart categorization and methods based on the Framework of Educational Learning Outcomes (FOLR). The purpose of this Framework is to assess and compare the digital literacy and teaching performance of high school teachers to classification methods like support vector machines (SVM) and decision tree. The data shows that the SVM method achieved 78% accuracy on identifying teacher digital literacy skills after 600 round of the method while the FOLR method achieved 81%. Meanwhile, the geographic complexity of the SVM-oriented and FOLR-based smart literacy enhancement algorithms are calculated to be 45 and 22, respectively. Particularly, with more rounds, the FOLR method achieves improved accuracy and lower geographical complication in measuring teachers' pedagogical digital literacy skills.

Authors

Vanitha A - vanithaa@saveetha.ac.in

Premlata Premlata - lata.premproff@gmail.com

Kumari Dipti - maheshkandpal0810@gmail.com

Iftikhar Alam Khan - iftikhar@bathspa.ae

Sashka Jovanovska - saska.jovanovska@ugd.edu.mk

Vishnu Kumar Gupta - vishnu5966@gmail.com

Camera Ready Files

402.docx (61.2 Kb, 8/30/2025, 4:32:30 PM)

402.pdf (364.9 Kb, 8/30/2025, 4:32:30 PM)

IEEE International Conference on Emerging Engineering Technologies and Applications (IC-EETA-2025)

6th – 8th November 2025

Schedule

Day 1 – Thursday, 6 November 2025						
Time	Session		Details			
Time: 08:30 – 09:50 AM (India)/ 11:00 to 12:20PM (Malaysia)	Registration		Participant registration and kit distribution			
Time: 09:55AM – 12:00 PM (India)/ 12:25 to 2:30PM (Malaysia)	Inaugural Session		Welcome address, lamp lighting, dignitary speeches			
Time: 12:00 – 12:50 PM (India)/ 2:30 to 3:20PM (Malaysia)	Lunch Break (India)					
Technical Sessions – Track	2 Parallel Tracks in Malaysia		4 Parallel Tracks in India			
Technical Sessions 1 - 6	Track 1: (Venue: Malaysia), Mode: Offline	Track 2: (Venue: Malaysia), Mode: Offline	Track 3 (Venue: Small Audi MU Indore); Area: CSE and Allied, Mode: Hybrid	Track 4 (Venue: MII Foundation MU Indore); Area: CSE and Allied, Mode: Hybrid	Track 5 (Venue:F-Block, Room No: 166 MU Indore); Area: CSE and Allied, Mode: Hybrid	Track 6 (Venue: Conference Hall MU Indore); Area: EE and Allied, Mode: Hybrid
	Time: 06:30AM – 08:00 AM (India)/ 09:00 to 10:30AM (Malaysia)	Time: 06:30AM – 08:00 AM (India)/ 09:00 to 10:30AM (Malaysia)	Time: 01:00PM – 03:00 PM (India)/ 03:30 to 05:30PM (Malaysia)	Time: 01:00PM – 03:00 PM (India)/ 03:30 to 05:30PM (Malaysia)	Time: 01:00PM – 03:00 PM (India)/ 03:30 to 05:30PM (Malaysia)	Time: 01:00PM – 03:00 PM (India)/ 03:30 to 05:30PM (Malaysia)
	Paper ID: 164	Paper ID: 567	Paper ID: 272	Paper ID: 12	Paper ID: 82	Paper ID: 424
	Paper ID: 186	Paper ID: 621	Paper ID: 282	Paper ID: 23	Paper ID: 84	Paper ID: 512
	Paper ID: 228	Paper ID: 622	Paper ID: 287	Paper ID: 31	Paper ID: 90	Paper ID: 573
	Paper ID: 229	Paper ID: 623	Paper ID: 289	Paper ID: 113	Paper ID: 93	Paper ID: 110
	Paper ID: 259	Paper ID: 624	Paper ID: 435	Paper ID: 143	Paper ID: 94	Paper ID: 223
	Paper ID: 455	Paper ID: 625	Paper ID: 461	Paper ID: 267	Paper ID: 96	Paper ID: 415
	Paper ID: 456	Paper ID: 626	Paper ID: 576	Paper ID: 298	Paper ID: 105	Paper ID: 523
	Paper ID: 458	Paper ID: 627	Paper ID: 619	Paper ID: 299	Paper ID: 125	Paper ID: 187
	Paper ID: 517		Paper ID: 328	Paper ID: 560	Paper ID: 447	Paper ID: 216
			Paper ID: 330	Paper ID: 332	Paper ID: 628	Paper ID: 601
				Paper ID: 351	Paper ID: 631	
Time: 03:00PM – 03:20 PM (India)/ 05:30 to 05:50PM (Malaysia)	Tea Break (MU India)					
Time: 03:20PM – 04:30 PM (India)/ 05:50 to 07:00PM (Malaysia)	Keynote Talk I		Prof. Rizalman Mamat, Malaysia			

Day 2 – Friday, 7 November 2025				
Time	Session Details			
Time: 08:30 – 09:00 AM (India)/ 11:00 to 11:30AM (Malaysia)	Registration	Participant registration and kit distribution		
Time: 9:00 – 10:00 AM (India)/ 11:30 to 12:30PM (Malaysia)	Keynote Talk II	Prof. Frank Stomp, USA		
Time: 10:00AM – 10:20 AM (India)/ 12:30 to 12:50PM (Malaysia)	Tea Break (India)			
Time: 10:20AM – 12:20 PM (India)/ 12:50 to 02:50PM (Malaysia)	Technical Sessions – 4 Parallel Tracks			
Technical Session 7-10	Track 7 (Venue: Small Audi MU Indore); Area: CSE and Allied; Mode: Hybrid	Track 8 (Venue: MII Foundation MU Indore); Area: EC and Allied; Mode: Hybrid	Track 9 (Venue:F-Block, Room No: 166 MU Indore); Area: EE and Allied; Mode: Hybrid	Track 10 (Venue: Conference Hall, A-Block, MU Indore); Area: ME and Allied; Mode: Hybrid
	Time: 10:20AM – 12:20 PM (India)/ 12:50 to 02:50PM (Malaysia)	Time: 10:20AM – 12:20 PM (India)/ 12:50 to 02:50PM (Malaysia)	Time: 10:20AM – 12:20 PM (India)/ 12:50 to 02:50PM (Malaysia)	Time: 10:20AM – 12:20 PM (India)/ 12:50 to 02:50PM (Malaysia)
	Paper ID: 142	Paper ID: 139	Paper ID: 231	Paper ID: 251
	Paper ID: 163	Paper ID: 155	Paper ID: 362	Paper ID: 556
	Paper ID: 239	Paper ID: 158	Paper ID: 525	Paper ID: 574
	Paper ID: 256	Paper ID: 288	Paper ID: 537	Paper ID: 635
	Paper ID: 274	Paper ID: 335	Paper ID: 430	Paper ID: 230
	Paper ID: 277	Paper ID: 437	Paper ID: 43	Paper ID: 475
	Paper ID: 286	Paper ID: 49	Paper ID: 176	Paper ID: 477
	Paper ID: 305	Paper ID: 66	Paper ID: 443	Paper ID: 273
	Paper ID: 309	Paper ID: 126	Paper ID: 472	Paper ID: 269
	Paper ID: 313	Paper ID: 134	Paper ID: 321	Paper ID: 520
	Paper ID: 326	Paper ID: 151	Paper ID: 478	
	Paper ID: 413	Paper ID: 294	Paper ID: 489	
	Paper ID: 470	Paper ID: 268	Paper ID: 500	
Time: 12:20 – 01:10 PM (India)/ 2:50 to 3:40PM (Malaysia)	Lunch Break (India)			

Time: 1:10PM – 03:00 PM (India)/ 3:40 to 05:30PM (Malaysia)	Technical Sessions – 4 Parallel Tracks			
Technical Session 11-14	Track 11 (Venue: Small Audi MU Indore); Area: ME and Interdisciplinary; Mode: Hybrid	Track 12 (Venue: MII Foundation MU Indore); EC and Allied; Mode: Hybrid	Track 13 (Venue:F-Block, Room No: 166 MU Indore); Area: CE and Allied; Mode: Hybrid	Track 14 (Venue: Conference Hall, A-Block, MU Indore); Area: CSE and Allied; Mode: Hybrid
	Time: 1:10PM – 03:00 PM (India)/ 3:40 to 05:30PM (Malaysia)	Time: 1:10PM – 03:00 PM (India)/ 3:40 to 05:30PM (Malaysia)	Time: 1:10PM – 03:00 PM (India)/ 3:40 to 05:30PM (Malaysia)	Time: 1:10PM – 03:00 PM (India)/ 3:40 to 05:30PM (Malaysia)
	Paper ID: 85	Paper ID: 38	Paper ID: 148	Paper ID: 486
	Paper ID: 97	Paper ID: 40	Paper ID: 191	Paper ID: 487
	Paper ID: 149	Paper ID: 95	Paper ID: 246	Paper ID: 493
	Paper ID: 150	Paper ID: 146	Paper ID: 257	Paper ID: 495
	Paper ID: 190	Paper ID: 234	Paper ID: 349	Paper ID: 498
	Paper ID: 484	Paper ID: 237	Paper ID: 360	Paper ID: 499
	Paper ID: 507	Paper ID: 275	Paper ID: 381	Paper ID: 504
	Paper ID: 533	Paper ID: 311	Paper ID: 383	Paper ID: 509
	Paper ID: 137	Paper ID: 343	Paper ID: 388	Paper ID: 524
	Paper ID: 152	Paper ID: 347	Paper ID: 292	Paper ID: 538
	Paper ID: 266	Paper ID: 374		Paper ID: 539
	Paper ID: 291	Paper ID: 496		Paper ID: 508
				Paper ID: 551
Time: 03:00PM – 03:20 PM (India)/ 05:30 to 05:50PM (Malaysia)	Tea Break (India)			
Time: 03:20PM – 04:20 PM (India)/ 05:50 to 06:50PM (Malaysia)	Keynote Talk III		Prof. Dr. Yip Mum Wai, TARUMT Malaysia	

Day 3 – Saturday, 8 November 2025				
Time	Session		Details	
Time: 08:30 – 09:00 AM (India)/ 11:00 to 11:30AM (Malaysia)	Registration	Participant registration and kit distribution		
Time: 09:00AM – 10:20 AM (India)/ 11:30 to 12:50PM (Malaysia)	Technical Sessions – 4 Parallel Tracks			
Technical Session 15-18	Track 15 (Venue:F-Block, Room No: 166 MU Indore); Area: CSE and Allied; Mode: Hybrid	Track 16 (Venue: MII Foundation MU Indore); Area: CSE and Allied; Mode: Hybrid	Track 17 (Venue: Conference Hall, MU Indore); Area: EE and Allied; Mode: Hybrid	Track 18 (Venue: Small Audi, MU Indore); Area: Maths and Allied; Mode: Hybrid
	Time: 09:00AM – 10:20 AM (India)/ 11:30 to 12:50PM (Malaysia)	Time: 09:00AM – 10:20 AM (India)/ 11:30 to 12:50PM (Malaysia)	Time: 09:00AM – 10:20 AM (India)/ 11:30 to 12:50PM (Malaysia)	Time: 09:00AM – 10:20 AM (India)/ 11:30 to 12:50PM (Malaysia)
	Paper ID: 329	Paper ID: 384	Paper ID: 5	Paper ID: 193
	Paper ID: 333	Paper ID: 386	Paper ID: 293	Paper ID: 510
	Paper ID: 336	Paper ID: 402	Paper ID: 278	Paper ID: 578
	Paper ID: 339	Paper ID: 405	Paper ID: 279	Paper ID: 629
	Paper ID: 340	Paper ID: 406	Paper ID: 315	Paper ID: 630
	Paper ID: 342	Paper ID: 418	Paper ID: 317	Paper ID: 593
	Paper ID: 353	Paper ID: 419	Paper ID: 318	
	Paper ID: 357	Paper ID: 460	Paper ID: 319	
	Paper ID: 369	Paper ID: 462	Paper ID: 320	
	Paper ID: 327	Paper ID: 474	Paper ID: 324	
	Time: 10:20 – 10:30 AM (India)/ 12:50 to 01:00PM (Malaysia)	Tea Break (India)		
Time: 10:30AM – 12:00 PM (India)/ 01:00 to 02:30 PM (Malaysia)	Industrial Expert Talk			
Time: 12:00 – 01:00 PM (India)/ 2:30 to 3:30PM (Malaysia)	Lunch Break (India)			
Time: 01:00 – 02:00 PM (India)/ 3:30 to 4:30PM (Malaysia)	Valedictory Session (India)		Award distribution, certificate presentation, closing remarks	
Time: 02:00-02:30 PM (India)/ 4:30 to 5:00PM (Malaysia)	High-Tea			

All Authors/Participants are requested to carefully note the day and time. In case of any queries related to the schedule, please contact:

Prof. Manish Thakur – 9993696919, Prof. Sonu Kumar – 8586809522

General Chair

IC-EETA '25

Author Console

1 - 1 of 1 «« « **1** » »» Show: 25 50 **100** All Clear All Filters

Paper ID	Title	Files	Actions
<div><input type="text"/></div> <div>Clear</div>	<div><input type="text"/></div> <div>Clear</div>		
402	<div>Exploring the Impact of AI on Science Teaching Effective Pedagogical Strategies for Developing Digital Literacy Skills</div> <div>Show abstract</div>	<div>Submission files:</div> <div>④ 36_Exploring the Impact of AI on Science Teaching Effective Pedagogical Strategies for Developing Digital Literacy Skills.pdf</div> <div>Camera Ready Submission files:</div> <div>④ 402.docx</div> <div>④ 402.pdf</div>	<div>Camera Ready:</div> <div>✎ Edit Camera Ready Submission ✓</div> <div>View Camera Ready Summary</div> <div>④ Submit IEEE Copyright Form</div>