ONLINE RESEARCH WEBINAR REPORT

Title: From Disconnected to Cohesive: Mitigating Research Gaps in the Synergy of Computer Science and Engineering

Scope:

This webinar aims to equip research scholars with the skills to identify and address research gaps in Computer Science and Engineering (CSE). It will cover the definition and significance of research gaps, an overview of current CSE trends, and methods for conducting literature reviews and critical analyses. Attendees will learn to formulate research questions, choose appropriate methodologies, and explore case studies of successful research. The session will also introduce essential research tools and resources, provide guidance on securing funding, and discuss strategies for effective collaboration and networking. The webinar will conclude with an interactive Q&A session for personalized advice.

Objective:

The objective of this webinar is to equip research scholars with the knowledge and skills to effectively identify and address research gaps in contemporary Computer Science and Engineering (CSE) trends. Participants will learn to conduct thorough literature reviews, formulate impactful research questions, select appropriate methodologies, utilize essential research tools, and secure funding. The webinar also aims to foster collaboration and networking, providing strategies to build supportive research networks and partnerships.

Expected Outcomes

- Understand the definition and importance of research gaps in CSE.
- Gain knowledge of current trends in CSE, including AI, Quantum Computing, Cybersecurity, IoT, Big Data, Blockchain, and Cloud Computing.
- Develop proficiency in conducting thorough literature reviews and using academic databases.
- Learn to formulate precise and impactful research questions targeting identified gaps.
- Gain skills in selecting appropriate methodologies for investigating research gaps.
- Familiarize themselves with essential research tools and software for data analysis and project management.
- Acquire knowledge of strategies for finding and securing research funding and grants.
- Learn effective strategies for collaboration with industry experts, mentors, and peers.
- Gain insights from case studies of successful research addressing significant gaps in CSE.
- Receive personalized advice and feedback during an interactive Q&A session to address specific research challenges.

Experts informations

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Program Schedule

Event title: From Disconnected to Cohesive: Mitigating Research Gaps in the Synergy of Computer Science and Engineering

Date: July 26th and 27th, 2024

Day 1 July 26th, 2024	Slot 1	Slot 2
Expert details	Dr. N. Bharathiraja, Associate Professor, Chitkara University Institute of Engg and Tech,Chitkara University, Punjab, India. 8248361817, bharathiraja@chitkara.edu.in	Prof Shamik Tiwari , Dean and Professor at the School of Computer Science & Engineering, IILM University, Gurugram India, 9509041102, shamik.tiwari@iilm.edu
Title	Exploring Research Gaps in Artificial Intelligence and Machine Learning for Industry 5.0: Opportunities and Challenges	Cross-Disciplinary Collaboration: Closing Gaps in CSE Research
Timing	10 to 11 am	2 to 3 pm
GMeet Link	https://meet.google.com/ebo-msmm-wat	https://meet.google.com/xxs-ifcx-pob
Feedback Link	https://forms.gle/kzUSTCtbdVoeszBk8	https://forms.gle/FdxhQTnnLGs8AWp58
Day 2: July 27th, 2024	Slot 1	Slot 2
Expert Details	Prof Manoj Kumar Mishra, Faculty in School of Management, OP Jindal University, Raigarh, Chhattisgarh, manoj.mishra@opju.ac.in, 9839661837	Dr Shubham Mahajan, Faculty of Computer Science, CHRIST (Deemed to be University), Delhi-NCR, shubhammahajan@ieee.org ,9419610760
Title	Type of research gaps and gap identification	Introduction to Research Methodology / Getting Ready to Publish
Timing	10 to 11 am	2 to 3 pm
GMeet Link	https://meet.google.com/afk-mepa-rku	https://meet.google.com/ckm-bqhx-dum
Feedback Link	https://forms.gle/qeVEdqZ3bRVZ1Hwb8	https://forms.gle/Sxsep9fsiGvwHKUq9

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ONLINE RESEARCH WEBINAR

Bridging the Divide: Identifying and Addressing Research Gaps in Contemporary Computer Science and Engineering Trends

July 26 &27, 2024

SRM MCET

GUEST SPEAKERS

Prof. Shamik Tiwari
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IILM University, Haryana

Dr. Shubham Mahajan
Faculty of Computer Science
CHRIST (Deemed to be
University), Delhi-NCR

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Prof. Manoj Kumar Mishra
School of Management
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Registration Link: https://forms.gle/ef3b4tgqxZz8PwMP8

ABOUT THE EVENT

This webinar aims to equip research scholars with the skills to identify and address research gaps in Computer Science and Engineering. It will cover the definition and significance of research gaps, an overview of current CSE trends, and methods for conducting literature reviews and critical analyses.

Coordinator
Dr. K. BALAMURUGAN
ASP/ MECH and R&D Cell

Convener
Dr. S. DURAIRAJ
PRINCIPAL

GIST of the event

DAY 1 Session 1:

Dr. N. Bharathiraja, an Associate Professor at Chitkara University Institute of Engineering and Technology, Chitkara University, recently delivered an expert talk on "Exploring Research Gaps in Artificial Intelligence and Machine Learning for Industry 5.0: Opportunities and Challenges." He emphasized that Industry 5.0 aims to create a harmonious collaboration between humans and machines, leveraging advanced technologies to enhance productivity and innovation.

Dr. Bharathiraja highlighted several research gaps within AI and ML that are crucial for the realization of Industry 5.0. Key among these is the need for improved human-machine interaction models that ensure seamless and intuitive collaboration. He also underscored the importance of developing robust AI systems capable of ethical decision-making and addressing bias. Another significant gap identified is the integration of AI with IoT and other emerging technologies to create smart, adaptive industrial environments.

The challenges in bridging these gaps include ensuring data privacy and security, managing the complexity of AI systems, and addressing the shortage of skilled professionals in the field. However, Dr. Bharathiraja pointed out that these challenges also present opportunities for innovation and growth. By focusing research efforts on these critical areas, there is potential to drive significant advancements in AI and ML, ultimately leading to the successful implementation of Industry 5.0.
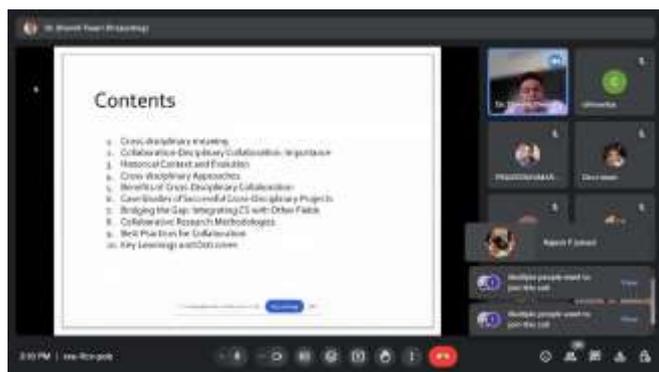

Day 1 Session 2

Prof. Shamik Tiwari, Dean and Professor at the School of Computer Science & Engineering at IILM University, Gurugram, recently delivered an insightful expert talk on "Cross-Disciplinary Collaboration: Closing Gaps in CSE Research." Prof. Tiwari emphasized that interdisciplinary collaboration is pivotal in addressing the complex challenges faced by the field of Computer Science and Engineering (CSE).

He began by highlighting the inherent limitations of traditional, siloed research approaches. Prof. Tiwari argued that breakthroughs in CSE often emerge at the intersection of diverse fields such as biology, economics, and social sciences. For instance, advancements in bioinformatics and computational biology have been achieved through the integration of biological knowledge and computational techniques.

Prof. Tiwari also discussed the role of cross-disciplinary teams in fostering innovation. He illustrated how collaborative efforts between computer scientists and professionals from other disciplines can lead to novel solutions that are both technically sound and practically relevant. This approach not only enriches the research but also enhances the applicability of CSE innovations in solving real-world problems.

One of the main challenges in promoting cross-disciplinary collaboration is overcoming communication barriers and fostering a shared understanding among diverse teams. Prof. Tiwari suggested structured

programs and workshops to facilitate this exchange of knowledge and ideas. He concluded by stressing the importance of institutional support in nurturing a collaborative research environment, which can ultimately lead to groundbreaking advancements in CSE.

Day 2 Session 1

Prof. Manoj Kumar Mishra, a distinguished faculty member at the School of Management, OP Jindal University, Raigarh, Chhattisgarh, shed light on the critical topic of "Types of Research Gaps and Gap Identification." Prof. Mishra emphasized the importance of recognizing and addressing research gaps to drive innovation and progress across various fields.

Prof. Mishra began by categorizing research gaps into several types. The first type, knowledge gaps, arises when there is a lack of information or understanding about a particular topic. This often occurs in emerging fields or rapidly evolving areas. The second type, evidence gaps, pertains to the absence of empirical data or insufficient studies to support existing theories or hypotheses. Another significant type is methodological gaps, which highlight the need for new or improved research methods to better investigate specific phenomena. Lastly, contextual gaps refer to the limited applicability of existing research findings to different contexts, such as geographical regions, industries, or cultural settings.

Identifying these gaps involves a systematic review of existing literature and research practices. Prof. Mishra suggested techniques such as bibliometric analysis to identify under-researched areas and meta-analysis to synthesize existing findings and pinpoint inconsistencies. He also recommended engaging with practitioners and stakeholders to uncover practical challenges that require academic investigation.

Prof. Mishra concluded by emphasizing that addressing these research gaps is essential for advancing knowledge, informing policy decisions, and fostering innovation. By systematically identifying and exploring these gaps, researchers can contribute to the development of more robust and comprehensive theories and practices.

Day 2 Session 2

Dr. Shubham Mahajan, a faculty member of Computer Science at CHRIST (Deemed to be University), Delhi-NCR, recently delivered an enlightening expert talk on "Introduction to Research Methodology /
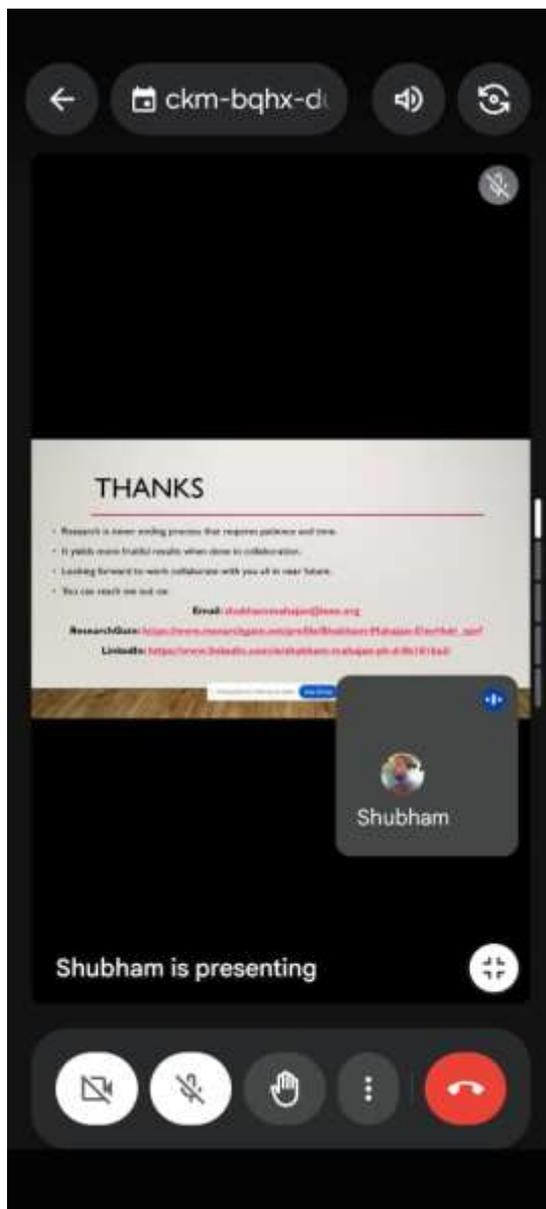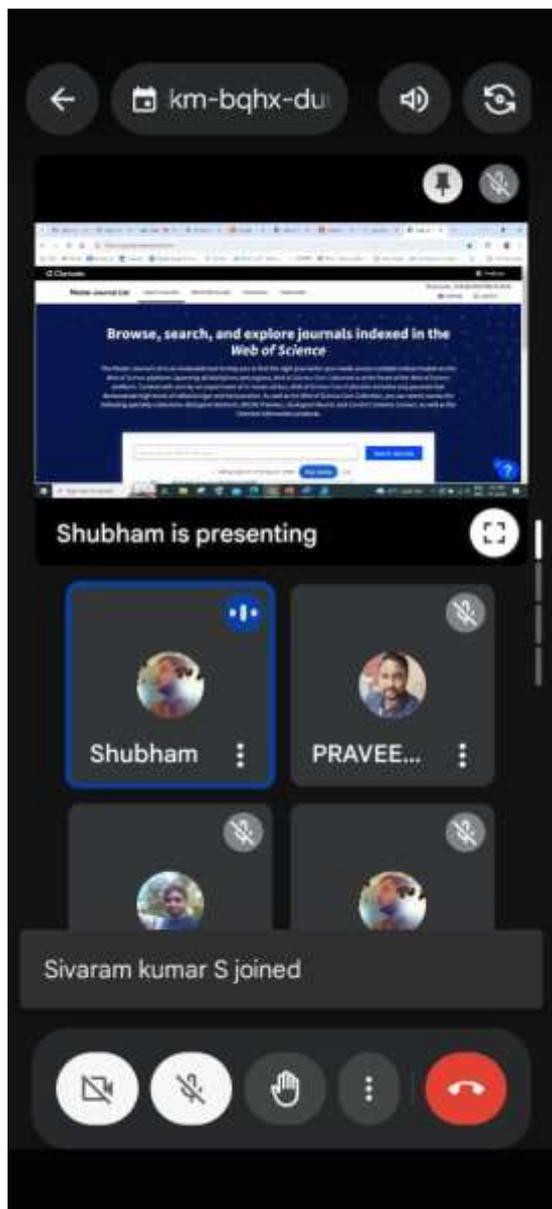
Getting Ready to Publish." Dr. Mahajan's discussion provided invaluable insights into the foundational aspects of research and the critical steps involved in preparing research for publication.

Dr. Mahajan began by defining research methodology as a systematic approach to solving research problems. He emphasized the importance of selecting the appropriate research design, which could be qualitative, quantitative, or mixed-methods, depending on the nature of the research question. He outlined the key components of a robust research methodology, including problem formulation, literature review, hypothesis development, data collection, and analysis.

Transitioning to the topic of publication, Dr. Mahajan underscored the significance of choosing the right journal. He advised researchers to consider the scope, impact factor, and audience of potential journals to ensure their work reaches the most relevant readership. Additionally, he highlighted the importance of adhering to the journal's submission guidelines and formatting requirements.

Dr. Mahajan also addressed the peer review process, explaining that constructive feedback from reviewers is crucial for refining and enhancing the quality of the research. He encouraged researchers to remain resilient and view rejections as opportunities for improvement.

In conclusion, Dr. Mahajan's talk provided a comprehensive overview of the research process, from conceptualization to publication. His guidance aimed to equip researchers with the necessary tools and strategies to conduct meaningful research and successfully navigate the publication landscape.

Attendees' information

Day/Session	Title	Counts
1/1	Exploring Research Gaps in Artificial Intelligence and Machine Learning for Industry 5.0: Opportunities and Challenges	89
1/2	Cross-Disciplinary Collaboration: Closing Gaps in CSE Research	98
2/1	Type of research gaps and gap identification	92
2/2	Introduction to Research Methodology / Getting Ready to Publish	84

Certificate attended for all sessions

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