TIME 2026: 2nd International Workshop on Transformative Insights in Multi-faceted Evaluation

Lei Wang*
Griffith University
Brisbane, Queensland, Australia
Data61/CSIRO
Canberra, Australian Capital Territory, Australia
l.wang4@griffith.edu.au

Md Zakir Hossain
Curtin University
Perth, Western Australia, Australia
Zakir.Hossain1@curtin.edu.au

Tom Gedeon
Curtin University
Perth, Western Australia, Australia
Tom.Gedeon@curtin.edu.au

Zicheng Pan
Griffith University
Brisbane, Queensland, Australia
z.pan@griffith.edu.au

Syed Islam
Edith Cowan University
Perth, Western Australia, Australia
syed.islam@ecu.edu.au

Md Rafiqul Islam
Charles Sturt University
Albury, New South Wales, Australia
mislam@csu.edu.au

Yasmeen George
Monash University
Melbourne, Victoria, Australia
Yasmeen.George@monash.edu

Shreya Ghosh
The University of Queensland
Brisbane, Queensland, Australia
shreya.ghosh@uq.edu.au

Abstract

TIME brings together domain experts and research students to share insights, practical guidance, and evaluations on key topics, including social network analysis, graph algorithms, web mining, semantics and knowledge, security, privacy, fairness, and ethics on the web. We invite survey, evaluation, or review papers that critically analyze models and datasets from diverse perspectives. These papers serve as essential resources by (i) providing quick reference guides for researchers and practitioners, (ii) enhancing accessibility for newcomers, and (iii) distilling key insights into actionable knowledge. Complementing these contributions, invited talks from experts and industry leaders will offer practical perspectives, fostering cross-domain collaboration in web technologies. Through thought-provoking discussions and networking opportunities, the workshop bridges research and real-world applications, setting a new standard for interdisciplinary exchange in the field.

CCS Concepts

• **General and reference** → **Surveys and overviews**; • **Information systems** → *Web applications*; • **Security and privacy** → *Human and societal aspects of security and privacy*; • **Computing methodologies** → **Artificial intelligence**; **Machine learning**; • **Applied computing**;

Keywords

Insights, Practical guidance, Evaluation, Survey, Review, Actionable knowledge, Cross-domain

ACM Reference Format:
Lei Wang, Md Zakir Hossain, Tom Gedeon, Zicheng Pan, Syed Islam, Md Rafiqul Islam, Yasmeen George, and Shreya Ghosh. 2026. TIME 2026: 2nd International Workshop on Transformative Insights in Multi-faceted Evaluation. In *Companion Proceedings of the ACM Web Conference 2026 (WWW Companion '26), April 13–17, 2026, Dubai, United Arab Emirates.* ACM, New York, NY, USA, 4 pages. https://doi.org/10.1145/3774905.3794670

1 Introduction

In today's digital landscape of privacy breaches, misinformation, and algorithmic bias, this workshop fosters cross-domain collaboration, applying successful techniques across fields. By bridging academia and industry, it aims to translate research into actionable solutions for modern web challenges.

The relevance of this workshop has never been greater, as web technologies increasingly influence sectors as varied as social media, healthcare, and e-commerce, each of which faces unique yet overlapping challenges. For example, privacy practices developed in healthcare can inform data security methods in social networks [2, 6, 9], while fairness in content moderation for social media can inspire transparency standards for e-commerce algorithms [1, 4]. The workshop's collaborative structure provides a timely response to these challenges, enabling researchers, practitioners, and domain experts to work together on practical guidance [3, 8, 10], comprehensive evaluations [5, 11], and cutting-edge methodologies. This approach not only fosters the development of robust, responsible web technologies but also builds an accessible knowledge base that aligns with The Web Conference's mission of promoting ethical, transparent, and secure principles in the web's ongoing evolution.

*Corresponding author.

WWW Companion '26, Dubai, United Arab Emirates

ACM ISBN 979-8-4007-2308-7/2026/04
https://doi.org/10.1145/3774905.3794670

We invite submissions on a wide range of topics (6 themes), including but not limited to the following areas:

i. **Responsible and cross-domain evaluation.** We encourage submissions that advance principled evaluation practices, strengthen trust in multimodal systems, or bridge research and applied contexts. Topics of interest include:
   - Responsible AI evaluation: Frameworks, methodologies, and best practices for assessing fairness, robustness, transparency, and societal impact.
   - Trustworthy multimodal analytics: Evaluation of multimodal systems (e.g., video-text, audio-text, sensor-video) with an emphasis on reliability, interpretability, and safety.
   - Cross-domain benchmarking: Creation or assessment of benchmarking frameworks applicable across domains such as healthcare, social media, security, and smart city applications.
   - Industry collaboration track: Case studies, deployed systems, and collaborative evaluations showing how academic-industry partnerships advance responsible and trustworthy AI.

ii. **Survey nature.** Authors are encouraged to provide comprehensive overviews of specific fields, summarizing state-of-the-art approaches, frameworks, and findings. These surveys are crucial for identifying trends and knowledge gaps that can inform future research directions. For example:
   - Video processing techniques: A review of current methodologies, highlighting advancements in compression, enhancement, and analysis across various applications.
   - Data-centric video analytics: An exploration of data-driven approaches in video content analysis, with an emphasis on machine learning applications.

iii. **Evaluation focus.** We invite critical evaluations of existing solutions and their implications, fostering nuanced analyses of strengths and weaknesses. Relevant topics include:
   - Ethical and trustworthy AI for healthcare: An examination of frameworks ensuring transparency and accountability in healthcare AI systems.
   - Security and privacy in clinical AI: A review of security measures and privacy protections in clinical AI applications.
   - Video content moderation: An evaluation of the effectiveness of current methods for moderating video content on social media, focusing on accuracy and ethical implications.

iv. **Review of methodologies.** We welcome critiques of various methodologies, exploring opportunities for improvement or adaptation. Suggested topics include:
   - Data standards and annotation for AI/ML: A review of best practices and standards for data annotation and their implications for model performance.
   - Robust and interpretable Large Language Models (LLMs) for healthcare: An analysis of advancements in LLMs, focusing on interpretability and reliability.
   - Video analysis for social media content: An exploration of algorithms for detecting and analyzing motion in videos shared on social media, examining implications for content moderation and audience engagement.

v. **Cross-disciplinary insights.** We encourage interdisciplinary discussions that broaden evaluation scope and promote diverse perspectives. Potential topics include:
   - Smart city applications: How web technologies enhance urban living and governance through AI-driven solutions.
   - Combatting online extremism: Strategies for detecting and reducing harassment and hate speech.
   - Human-centric video analytics: Implications of analyzing human motion in videos, with applications in health, security, and social behavior.

vi. **Addressing emerging challenges.** We aim to tackle current issues, prompting evaluations of existing strategies and proposing recommendations for future research. Areas of interest include:
   - Misinformation and disinformation in crisis situations: Evaluating the impact of misinformation during crises and current strategies to combat it.
   - Quality, uncertainty, and trust in discourse data: A critical examination of reliability and provenance in discourse data, addressing quality and trust implications.
   - Challenges in video quality assessment: A review of methodologies for assessing video quality and their implications for user trust and content engagement.

2 A Good Match for The Web Conference 2026

The proposed workshop is a natural fit for The Web Conference (WWW 2026), aligning perfectly with its mission to advance interdisciplinary research and foster impactful innovation in web technologies. WWW is known for tackling the technical and societal impacts of the web, and this workshop directly addresses that dual focus by concentrating on cross-domain knowledge exchange, ethical considerations, and practical applications of research findings. By assembling experts from diverse areas, social network analysis, graph algorithms, web content analysis, security, privacy, fairness, and ethics, the workshop embodies WWW's commitment to advancing the web in ways that are both groundbreaking and responsibly aligned with society's needs.

In addition, this workshop's goal of bridging the divide between academic research and industry demands speaks directly to WWW's emphasis on real-world relevance and applicability. Today's web technology landscape faces mounting challenges, such as misinformation, privacy violations, and biases in algorithmic decision-making, which require solutions that are not only innovative but adaptable across fields. This workshop promotes precisely this kind of adaptability and cross-pollination by inviting participants to explore how successful strategies in one area, such as privacy practices in healthcare or fairness standards in social media moderation, can inform solutions in other domains. By facilitating this type of interdisciplinary exchange, the workshop aligns with WWW's aim to foster practical, impactful contributions that address the complex, interconnected nature of today's web.

The workshop's structure further enhances its relevance to WWW by combining comprehensive evaluations, practical guidance, and concise survey papers, which together make it accessible and engaging for the conference's diverse audience. This inclusive format encourages participation from both seasoned experts and newcomers, ensuring that the insights shared will reach and benefit a broad community of researchers, practitioners, and policymakers. In line

with WWW's mission, this approach not only supports the development of innovative web technologies but also cultivates a responsible knowledge base that prioritizes ethical, transparent, and secure principles, qualities that are foundational to the web's future. The workshop, therefore, promises to provide WWW attendees with actionable insights and methodologies that will enhance the impact and relevance of their work across multiple fields.

3 Previous Edition: TIME 2025@WWW 2025

The inaugural edition of the TIME 2025 [7]: 1st International Workshop on Transformative Insights in Multi-faceted Evaluation was held on April 29, 2025, in Sydney, Australia, as part of WWW 2025.

Conducted in a hybrid format, the workshop attracted many registered participants from academia, industry, and government sectors. A total of 6 papers were accepted for oral presentations and 5 for poster sessions, following a rigorous peer-review process with at least three independent reviews per paper. The program featured two keynote talks, an interactive panel discussion, and a poster session, creating an engaging platform for knowledge exchange and interdisciplinary discussion.

Building on the success of the 2025 edition, the next iteration of the TIME workshop will broaden its thematic scope to include new topics such as responsible AI evaluation, trustworthy multimodal analytics, and cross-domain benchmarking frameworks. It will also introduce an industry collaboration track that fosters closer interaction between academic researchers and practitioners. The involvement of early-career researchers from the TIME Lab will continue to be a defining element, promoting mentorship and engagement within the research community. Additionally, an interactive demonstration session will be introduced to showcase live tools and frameworks for evaluation and visual analytics. Collectively, these developments are designed to enhance the workshop's impact, encourage broader participation, and establish the TIME series as a leading international forum for advancing responsible and transformative evaluation methodologies.

4 Review Process & Acknowledgments

This year TIME 2026 accepted 15 papers, including 10 oral presentations and 5 poster presentations. All submissions underwent a rigorous multi-stage review process. Each paper was first screened by the Program Chairs for formatting compliance and completeness, followed by automated checks for AI-generated content and potential reference hallucinations. Submissions passing these checks were then reviewed by at least three expert reviewers.

Preliminary review results, including reviewer comments, AI checking reports, and Program Chair feedback on formatting, were released to authors to allow for responses/rebuttals and revisions. This stage enabled authors to address major concerns and improve the overall quality of their papers. Revised submissions were subsequently evaluated by Area Chairs, who carefully considered the reviewer feedback, numerical ratings, paper strengths and contributions, relevance to the workshop scope, and the authors' responses. Final decisions were made by the Program Chairs based on all reviewer and Area Chair recommendations, as well as the overall quality and fit of each paper. The Award Committee shortlisted 4 highly rated papers as award candidates and will announce Best Paper Awards during the workshop.

The full Program Committee, including reviewers and Area Chairs (Dr Xiaohan Yu (Lecturer in AI at Macquarie University), Dr Fuman Xie (Postdoc at the University of Queensland), Dr Zicheng Pan (Research Fellow at Griffith University), Mr Ashutosh Ahuja (Principal Researcher at Starbucks Technology)), is listed on the official TIME 2026 website. We sincerely thank all contributors to the workshop, including our workshop coordinators Syuan-Hao Li (Griffith University) and Zhicheng Zhang (The University of New South Wales), for their dedicated efforts in managing submissions, reviews, communications, and media outreach.

5 Short Bio of Organizers

The organizing team is equally diverse, comprising individuals from multiple institutions, regions, and professional paths. This team includes members from academia, industry, and non-profit organizations, ensuring a wide array of expertise and perspectives. By harnessing this diversity, we not only strengthen the workshop's relevance but also foster an inclusive environment that encourages participation from all attendees. Our commitment to diversity will be a cornerstone of the workshop, promoting equitable opportunities for knowledge exchange and collaboration among participants from various backgrounds.

Dr. Lei Wang is an ARC Hub Research Fellow in the School of Engineering and Built Environment at Griffith University and a Visiting Scientist at Data61/CSIRO. He founded the Temporal Intelligence and Motion Extraction (TIME) Lab and has extensive research expertise in computer vision, video understanding, and anomaly detection, with publications in top venues such as CVPR, ICCV, ECCV, TPAMI, IJCV, and TIP. Dr. Wang has substantial experience organizing international research events, serving as lead organizer of the TIME 2025: 1st International Workshop on Transformative Insights in Multi-faceted Evaluation at The Web Conference 2025. He has also contributed to program organization as Area Chair for ACM Multimedia 2024 (Outstanding Area Chair), ACM Multimedia 2025, ICASSP 2025, and ICPR 2024. In addition, he has served as Guest Editor for MDPI Electronics special issues and actively supports community engagement through reviewing and coordinating AI and computer-vision conferences/workshops.

Dr. Md Zakir Hossain: A Senior Research Fellow at Curtin University, Dr. Hossain's research focuses on applied machine learning, computer vision, and data analytics. He has a history of organizing academic workshops and conferences, particularly those that bridge the gap between academia and industry. He is a Publication Chair for DICTA 2024.

Prof. Tom Gedeon: A Professor at Curtin University, Prof. Gedeon is a leading expert in human-centered AI and neural networks. He has a longstanding background in organizing prestigious conferences and has contributed significantly to research events that promote interdisciplinary knowledge exchange.

Dr. Zicheng Pan: A Research Fellow in the School of Information and Communication Technology at Griffith University, Australia. He received his PhD from Griffith University in 2025, following a combined Bachelor of Engineering (Honours) and Master of Engineering in Electrical Engineering from the University

of Queensland. His research focuses on deep learning and computer vision, with interests in incremental learning, domain adaptation, fine-grained classification, and vision- and language-based foundation models. He has experience in organizing and coordinating international research activities, including serving as organizer for TIME 2026 at The Web Conference (WWW 2026), and is actively involved in the research community as a program committee member, area chair, and reviewer for leading venues such as CVPR, ICCV, NeurIPS, ICML, AAAI, and IJCAI.

Dr. Syed Mohammed Shamsul Islam: A Senior Lecturer at ECU, Dr. Islam has expertise in data science, machine learning, and bioinformatics. He has organized workshops and research meetings that focus on applying data-driven approaches to solve complex problems in various domains, including healthcare and bioinformatics. His interdisciplinary background and organizational experience make him a valuable contributor to academic events that foster collaboration across fields.

Prof. Rafiqul Islam: An Associate Professor at Charles Sturt University, Dr. Islam specializes in cybersecurity, network security, and privacy. He has extensive experience in organizing workshops and research meetings, particularly in cybersecurity and digital forensics. Dr. Islam has served on program committees for several international conferences and has a strong track record in fostering cross-disciplinary collaborations, making him well-suited to lead and contribute to impactful academic events.

Dr. Yasmeen George is a Senior Lecturer in the Department of Data Science and Artificial Intelligence at Monash University and co-founder of the AIM for Health Lab. She holds a Ph.D. in Computer Science from the University of Melbourne and an M.Sc. in Medical Image Analytics from Ain Shams University, Egypt. With over a decade of interdisciplinary research experience, her work focuses on AI for healthcare analytics, including automated medical image analysis, disease classification, and AI interpretability. Previously, she was a Research Scientist at IBM Research Australia and a Research Fellow at the University of Melbourne, contributing to AI solutions for healthcare and social media analytics. Dr. George's research is supported by competitive grants (MRFF, NHMRC) and recognized through patents, invited talks, and numerous publications. She has actively organized and contributed to academic workshops on AI in healthcare and medical image analysis.

Dr. Shreya Ghosh is a Lecturer (Assistant Professor) in the School of Electrical Engineering and Computer Science at The University of Queensland. She received her Ph.D. in Information Technology from Monash University in 2022, specializing in automatic eye gaze estimation and learning with limited supervision. Her research focuses on affective computing, human-centred AI, and multimodal human behaviour understanding using computer vision and machine learning. Before joining UQ, she was a Lecturer and Research Fellow at Curtin University's Human-Centric AI Group. Dr. Ghosh has extensive experience organizing and leading international workshops and challenges at top-tier venues such as ACM Multimedia, ACII, ICPR, ECCV, and ICMI. Her work has been recognized through best paper awards, competitive research grants, and invited talks in affective computing and human-AI interaction.

6 Invited Speakers

We aim to invite a diverse group of speakers who represent different genders, nationalities, and professional backgrounds. Our selection will include individuals from leading academic institutions, industry experts, and practitioners who bring unique insights into web technologies. By ensuring representation from underrepresented groups, we hope to create a platform that reflects a variety of experiences and viewpoints, enhancing the overall depth of the workshop. The following speakers are planned to participate: Associate Professor Salman Khan (MBZUAI), Associate Professor Mahmoud Barhamgi (Claude Bernard Lyon 1 University), Associate Professor Mahmoud Abdulwahed (Qatar University).

References

[1] Sharon Hirsch, Lilach Zitnitski, Slava Novgorodov, Ido Guy, and Bracha Shapira. 2025. Graph Meets LLM for Review Personalization based on User Votes. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 2948–2958. doi:10.1145/3696410.3714691

[2] Yunming Hui, Inez Maria Zwetsloot, Simon Trimborn, and Stevan Rudinac. 2025. Domain-Informed Negative Sampling Strategies for Dynamic Graph Embedding in Meme Stock-Related Social Networks. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 518–529. doi:10.1145/3696410.3714650

[3] Yara Kyrychenko, Ke Zhou, Edyta Bogucka, and Daniele Quercia. 2025. C3AI: Crafting and Evaluating Constitutions for Constitutional AI. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 3204–3218. doi:10.1145/3696410.3714705

[4] Shao-En Lin, Brian Liu, Miao-Chen Chiang, Ming-Yi Hong, Yu-Shiang Huang, Chuan-Ju Wang, and Che Lin. 2025. BETag: Behavior-enhanced Item Tagging with Finetuned Large Language Models. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 4996–5009. doi:10.1145/3696410.3714769

[5] Pengfei Luo, Jingbo Zhou, Tong Xu, Yuan Xia, Linli Xu, and Enhong Chen. 2025. ImageScope: Unifying Language-Guided Image Retrieval via Large Multimodal Model Collective Reasoning. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 1666–1682. doi:10.1145/3696410.3714777

[6] Youchen Sun, Zhu Sun, Yingpeng Du, Jie Zhang, and Yew Soon Ong. 2025. Model-Agnostic Social Network Refinement with Diffusion Models for Robust Social Recommendation. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 370–378. doi:10.1145/3696410.3714683

[7] Lei Wang, Md Zakir Hossain, Syed Islam, Tom Gedeon, Sharifa Alghowinem, Isabella Yu, Serena Bono, Xuanying Zhu, Gennie Nguyen, Nur Al Hasan Haldar, et al. 2025. TIME 2025: 1st International Workshop on Transformative Insights in Multi-faceted Evaluation. In *Companion Proceedings of the ACM on Web Conference 2025*. 1848–1851.

[8] Tianlong Wang, Xianfeng Jiao, Yinghao Zhu, Zhongzhi Chen, Yifan He, Xu Chu, Junyi Gao, Yasha Wang, and Liantao Ma. 2025. Adaptive Activation Steering: A Tuning-Free LLM Truthfulness Improvement Method for Diverse Hallucinations Categories. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 2562–2578. doi:10.1145/3696410.3714640

[9] Zheng Wang, Wanwan Wang, Yimin Huang, Zhaopeng Peng, Ziqi Yang, Ming Yao, Cheng Wang, and Xiaoliang Fan. 2025. P4GCN: Vertical Federated Social Recommendation with Privacy-Preserving Two-Party Graph Convolution Network. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 2924–2934. doi:10.1145/3696410.3714721

[10] Baolei Zhang, Haoran Xin, Minghong Fang, Zhuqing Liu, Biao Yi, Tong Li, and Zheli Liu. 2025. Traceback of Poisoning Attacks to Retrieval-Augmented Generation. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 2085–2097. doi:10.1145/3696410.3714756

[11] Xuejiao Zhao, Siyan Liu, Su-Yin Yang, and Chunyan Miao. 2025. MedRAG: Enhancing Retrieval-augmented Generation with Knowledge Graph-Elicited Reasoning for Healthcare Copilot. In *Proceedings of the ACM on Web Conference 2025* (Sydney NSW, Australia) *(WWW '25)*. ACM, New York, NY, USA, 4442–4457. doi:10.1145/3696410.3714782