



UNIVERSITY OF LEEDS

**School of Civil Engineering  
Annual PGR-Led Conference**

**PROGRAMME  
BOOK OF ABSTRACTS  
AND  
POSTERS**

Monday, 7<sup>th</sup> April 2025

Venue: SCAPE Building, Lecture Theatre (LT) B & C

**Session #3****Cultural Rural Tourism: a Dayak Heritage Conservation and Cultural Development**

Rusfina Widayati

**Research Group:** Architecture and Urbanism Research Group**Abstract**

Cultural rural tourism as a part of rural tourism, has risen as one of the means to fostering the economy in rural areas in Indonesia. Indonesia, as an archipelago country, has diverse tangible and intangible cultures inherited by its indigenous people. One of the provinces that has many indigenous people and rich culture is East Kalimantan Province. However, East Kalimantan has only 23% of their cultural villages in a good performance as cultural rural tourism due to factors such as challenges in budget allocation, difficulties in conserving the heritage, and insufficient support from the rural tourism industry. This condition raises a question: could we develop a suitable cultural rural tourism framework to promote heritage conservation and cultural development for Dayak cultural heritage conservation?

For multiple case studies, the qualitative method approach is used in this research. Four cultural villages in East Kalimantan, Indonesia, as a case study. The five case studies are Pampang village in Samarinda; Nehas Liah Bing in East Kutai; Ritan Baru in Kutai Kartanegara; and Merasa' in Berau. Site visit during Cultural festival followed by semi-structured interviews. The respondents are the stakeholders of cultural rural tourism. From fieldwork, the themes will be explored, compiled, categorized, coded, and analyzed using cross-case study analyses with NVIVO software. The findings will assist in assessing key factors of rural tourism in each Dayak cultural village. Then, an integrated cultural heritage tourism framework will be developed as a reference for better tourism policy to promote Dayak heritage conservation and cultural development in East Kalimantan, Indonesia.

**Biography**

Rusfina Widayati is a PGR student at the Architecture and Urbanism Research Group, School of Civil Engineering, University of Leeds. Under the supervision of Prof. Gehan Selim with thesis title: Cultural Rural Tourism: a Dayak Heritage Conservation and Cultural Development in East Kalimantan Indonesia. Her research interest is in Vernacular architecture and architecture conservation.





UNIVERSITY OF LEEDS

# SCHOOL OF CIVIL ENGINEERING PGR-LED CONFERENCE 2025

**MULTI-DISCIPLINARY APPROACHES IN CIVIL ENGINEERING RESEARCH**

**Date: Monday, 7th April 2025**

**Venue: SCAPE Lecture Theatre B (1.05) & C (1.06)**

We are pleased to announce the upcoming Post Graduate Research (PGR) Conference of the School of Civil Engineering.

We invite all of you to participate by submitting abstracts for presentation or poster sessions. The full-day conference is open to PGRs at all stages of their program, taught postgraduates and the broader academic community.

The conference serves as a platform for practicing your presentation skills, showcasing the diverse research endeavours within the school and fostering academic discussion.

## **Important Date:**

**Abstract and Poster Deadline:**  
10th March 2025

Abstracts and posters to be sent to:  
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For more information:  
[cnrfn@leeds.ac.uk](mailto:cnrfn@leeds.ac.uk) (Roaksana) & [cngem@leeds.ac.uk](mailto:cngem@leeds.ac.uk) (Gettie)

Please scan the QR code for registration to attend the conference.



| Time           |                                                                                                                                                                                                                       |                                                                                                                                                                                      |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30 – 9:00    | Registration and refreshments / SCAPE Foyer                                                                                                                                                                           |                                                                                                                                                                                      |
| 9:00 – 9:05    | Welcome and Introduction: PGR Committee, SCAPE LT 1.05                                                                                                                                                                |                                                                                                                                                                                      |
| 9:05 – 9:15    | Opening Address: <b>Prof. Carlo Prato</b> (Head of School), SCAPE LT 1.05                                                                                                                                             |                                                                                                                                                                                      |
| 9:15 – 9:35    | <b>Keynote 1: Professor Fleur Loveridge</b>                                                                                                                                                                           |                                                                                                                                                                                      |
| 9:35 – 9:45    | Group Photo / SCAPE Foyer                                                                                                                                                                                             |                                                                                                                                                                                      |
| 9:45 – 9:50    | PARALLEL CONFERENCE SESSIONS                                                                                                                                                                                          |                                                                                                                                                                                      |
|                | <b>Session #1: SCAPE LT 1.05</b><br><b>Session Chair: Dr. Ming Li</b>                                                                                                                                                 | <b>Session #2: SCAPE LT 1.06</b><br><b>Session Chair: Dr. Muhammad Jawad Ahmed</b>                                                                                                   |
| 9:50 – 10:05   | Optimizing a Metro-Based Underground Logistics System by coordinating passenger and freight operations<br><b>Presenter: Yu Cao</b>                                                                                    | Crystal Growth Mechanism of Hydrogrossular<br><b>Presenter: Boyang Zhan</b>                                                                                                          |
| 10:05 – 10:20  | Rethinking Urban Safety: The Impact of Security Measures of Built Environment<br><b>Presenter: Zainab Alhajji</b>                                                                                                     | Barriers and drivers to decarbonization and circularity of buildings<br><b>Presenter: Danelly Gutierrez Ramirez</b>                                                                  |
| 10:20 – 10:35  | Understanding the Contribution of Leadership to the Navigation of Urgency in Inter-Organisational Projects<br><b>Presenter: Qinghao Wang</b>                                                                          | Opportunity and Possibility in Vacant Urban Spaces<br><b>Presenter: Dwi Hatmojo Danurdoro</b>                                                                                        |
| 10:35 – 10:50  | Investigating the role of leadership meaning making in shaping sustainability in construction projects within the UK<br><b>Presenter: Margaret Nancy Joof</b>                                                         | Development of a Low-Carbon Concrete from UK Calcined Clays and Assessment of Whole-Life Performance<br><b>Presenter: Ehsaanul Haque Laskar</b>                                      |
| 10:50 – 11:05  | A Systematic Review and Meta-Analysis: How are Pathogens Distributed in Respiratory Emissions?<br><b>Presenter: Danny Blundell</b>                                                                                    | Interrogating decision-making with respect to access to sanitation in informal settlements in Bulawayo – a multi-disciplinary study<br><b>Presenter: Virginia Roaf</b>               |
| 11:05 – 11:15  | <b>Q&amp;A</b>                                                                                                                                                                                                        |                                                                                                                                                                                      |
| 11:15 – 11:30  | Refreshments                                                                                                                                                                                                          |                                                                                                                                                                                      |
| 11:30 – 11:35  | <b>Session #3: SCAPE LT 1.05</b><br><b>Session Chair: Dr. Soumava Boral</b>                                                                                                                                           | <b>Session #4: SCAPE LT 1.06</b><br><b>Session Chair: Dr. Francesco Pugliese</b>                                                                                                     |
| 11:35 – 11:50  | Cultural Rural Tourism: a Dayak Heritage Conservation & Cultural Development<br><b>Presenter: Rusfina Widayati</b>                                                                                                    | Techno-Economic Analysis of Onsite Microgrids for Net Zero Carbon Construction (NZCC)<br><b>Presenter: Racheal Wesonga</b>                                                           |
| 11:50 – 12:05  | The effect of chlorides on the clinkering of calcium sulfoaluminate (ye'elimite)<br><b>Presenter: Rand Farhana</b>                                                                                                    | Local Practices in Preserving Bara Katra Site: Insight from a Survey-based Approach<br><b>Presenter: Roaksana Firdaus Nigar</b>                                                      |
| 12:05 – 12:20  | A systematic literature review on external factors influencing transition projects<br><b>Presenter: Yishi Zhang</b>                                                                                                   | Evaluating rail-bus network integration and service accessibility through an extended node-place model approach<br><b>Presenter: Youxin Lina</b>                                     |
| 12:20 – 12: 35 | How Does Decision-Making During Construction Stage Address Long-Term Sustainability Goals Amid Short-Term Pressures in Large Infrastructure Projects?<br><b>Presenter: Reem Alyagoub</b>                              | Investigating the effects of carbonated recycled concrete aggregate on the microstructural characteristics of mortars with different cement systems<br><b>Presenter: Kaiyuan Wei</b> |
| 12:35 – 12: 00 | Influence of Calcined Clays as Cement Substitutes on the Durability of Cementitious Materials: Chloride Transport and Related Properties<br><b>Presenter: Utibe Nkanga</b>                                            | Distributed thermal testing for hydrostratigraphic characterization of shallow open-loop geothermal systems<br><b>Presenter: Joseph Kelly</b>                                        |
| 12:50 – 13:00  | <b>Q&amp;A</b>                                                                                                                                                                                                        |                                                                                                                                                                                      |
| 13:00– 13:45   | Lunch: SCAPE Foyer                                                                                                                                                                                                    |                                                                                                                                                                                      |
| 13:30 – 14:10  | <b>Poster session: SCAPE Foyer</b>                                                                                                                                                                                    |                                                                                                                                                                                      |
| 14:10 – 14:55  | <b>SPECIAL SESSION: Bridging Disciplines, Building Futures</b><br><b>Moderator: Dr. Michal Drewniok</b><br><br><b>Panellists:</b> Utibe Nkanga, George Appiah-Kubi, Kashif Malik, Virginia Roaf, Mohammad Qutb Aldeen |                                                                                                                                                                                      |

|               |                                                                                                                                                |                                                                                                                                                                                 |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:55 – 15:10 | PARALLEL CONFERENCE SESSIONS                                                                                                                   |                                                                                                                                                                                 |
|               | <b>Session #5: SCAPE LT 1.05</b><br><b>Session Chair: Dr. Hisham hafez</b>                                                                     | <b>Session #6: SCAPE LT 1.06</b><br><b>Session Chair: Dr. Sara Mahdizadeh</b>                                                                                                   |
| 15:10 –15:25  | Institutional Challenges in Heritage Management: A Governance Perspective from Ghadames. Libya<br><b>Presenter: Fatma Seila</b>                | Enhancing Architect-Client Collaboration Through Visual Communication in Briefing for Health Infrastructure Projects<br><b>Presenter: Nahl Binte Sajid Butt</b>                 |
| 15:25 – 15:40 | The Role of Wetting-Drying Cycles in Enhancing Soil Erosion: Implications for Water-Retaining Structures<br><b>Presenter: Michael Atukunda</b> | (Dis)-entangling spatial belonging: An architectural student perspective<br><b>Presenter: Karen Arzate Quintanilla</b>                                                          |
| 15:40 – 15:55 | Properties and performance of recycled crushed concrete: towards fully circular concrete<br><b>Presenter: Ali Al-Janabi</b>                    | Energy piles system to limit the earth pressure development on integral abutments<br><b>Presenter: Seif Alnahar</b>                                                             |
| 15:55 – 16:10 | Conceptual Framework for Developing Physics-Based Deep Learning Model for Predicting Early Age Cracking<br><b>Presenter: Syeda Zunaira Ali</b> | Comparative Analysis of LSTM, GRU, and PDM for River Level Forecasting<br><b>Presenter: Thitipoom Chailert</b>                                                                  |
| 16:10 – 16:25 | Using Observation and Behavioural Mapping to Understand Walkability in Coastal Gulf cities' street<br><b>Presenter: Mohammad Qutb Aldeen</b>   | Improving Rework Management at the Organisational Level for Omani Infrastructure Projects<br><b>Presenter: Mohammad Al Barrami</b>                                              |
| 16: 25 –16:40 | Comprehensive Analysis of Construction Productivity Using a System Thinking Approach<br><b>Presenter: Ghassan Al Farsi</b>                     | Explore Physical Interior Environment Design Decision for Improving the Identity of Creative Workers in Cultural District of China Great Bay Area<br><b>Presenter: Zimu Fan</b> |
| 16:40 – 16:50 | Q&A                                                                                                                                            |                                                                                                                                                                                 |
| 16:50 – 17:10 | <b>PGR Awards 2025 Announcements</b><br>- Academic Performance<br>- Engagement<br>- Outstanding Thesis<br>- Best Presentation<br>- Best Poster |                                                                                                                                                                                 |

**PGR Conference Dinner at 6.30 pm: Kunafa Tea, First floor, 18-20 Benson St, Leeds LS7 1BL**



SCAN here to  
register for the  
DINNER

## Poster session (13:30 – 14:10 - SCAPE Foyer)

|                           |                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Janae Steadman</b>     | Land Cover Change in the Congo River Island                                                                      |
| <b>Farhana Sharmin</b>    | The Role of Social Demand in Achieving a Sustainable Circular Economy in the UK Housing Construction Industry    |
| <b>Jia Sun</b>            | Effect of Pre-treatment Methods on the Performance of Steel Slag Asphalt Mixture and its Sustainability Analysis |
| <b>Khadija Al Balushi</b> | A Circular Economy & AI Approach: Advancing Biohydrogen Production                                               |
| <b>Alaa Aburas</b>        | When Heat Meets Water: The Hidden Dynamics of Energy Piles in Unsaturated Soils                                  |
| <b>Raied Refaei</b>       | Saline Soil Mechanics: Local to Global Scale Challenges                                                          |
| <b>Yuchen Guo</b>         | The influence of digital transformation on collaboration in inter-organisational projects                        |
| <b>Tika Hasan</b>         | Beyond Regeneration: Investigating Place Identity under the Place Production Framework                           |
| <b>Zhi Li</b>             | Investigate the planning mechanisms for the inclusive urban public waterfronts the case of Haikou City           |
| <b>Saja A. Zeadah</b>     | Cities Through a Child's Eyes: What Are We Missing?                                                              |







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## Order Confirmation for School of Civil Engineering PGR-Led Conference 2025

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**From** Eventbrite <noreply@order.eventbrite.com>

**Date** Mon 17/03/2025 15:50

**To** Rusfina Widayati <cnrw@leeds.ac.uk>

**CAUTION:** External Message. Use caution opening links and attachments.



### Eventbrite

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# School of Civil Engineering PGR-Led Conference 2025



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## Order Summary

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| Rusfina Widayati | 1 x <b>General Admission</b> | £0.00 |
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## Ticket Information

Ticket #1: General Admission

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