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  Session 6: Process Optimization and Management in Modern Integrated Information Systems .. 19
  Session 7: AI - based Digital Information Platform Design and Development ........ 20
  Session 8: Teaching Methods and Knowledge Engineering .................................... 21
It is with tremendous pleasure that we warmly welcome you to the 10th International Conference on Information Management (ICIM 2024), and the 5th European Advanced Educational Technology Conference (EAET 2024), Robinson College of the University Cambridge, England, UK, from the 8th to the 10th of March, 2024. We have authors and delegates from United Kingdom, United States, Ireland, Netherlands, Germany, China, Japan, Saudi Arabia, Qatar, Jordan, Oman, India, Brazil, Peru, Malaysia, Latvia, Philippines and other countries.

Following the success of ICIM 2023 at the University of Oxford (Worcester College) and the ICIM 2019 at the University of Cambridge (Trinity Hall), our primary focus and one of the meaningful and valuable dimensions of ICIM 2024 and EAET 2024 are still to provide an excellent scientific and academic platform for the participants to share and exchange brilliant ideas, original research, good practice, and to build mutually beneficial international links. We deliver our promise on helping create a bright picture and charming landscape for the state-of-the-art research and practice on related topics on information management, systems for business, advanced education technology, and other fields.

On the basis of our peer review process, 70 papers have been accepted. The success of the conference is due to the collective effort. Special thanks go to our invited speakers, and other professors, researchers and practitioners. In particular, we would like to express and record our gratitude and appreciation to the authors for their contributions. Many thanks go as well to all of the reviewers who helped us maintain the high quality of the manuscripts, particularly, for the ICIM 2024 Proceedings published by Springer CCIS book series indexed by the Science Citation Index (SCI) and Ei Compendex. We also express our sincere thanks to the members of the conference committees and organizing team for their support and hard work.

I would like to thank you for attending our conference and bringing your expertise and research findings to this event. Your vision, contributions and participation will help us build and pave the way into the future of information management, systems, artificial intelligence, Metaverse, education technology and relevant areas. You are the greatest assets and players today and tomorrow. We wish that all of you will find ICIM 2024 and EAET 2024 relevant, interesting, exciting and inspiring.

With very best wishes and kindest regards

Shuliang Li
Fellow (life member) of the British Computer Society UK
Conference Committees Chair of ICIM 2024 Cambridge
On behalf of the committees and organizing team
CONFERENCE COMMITTEES

Conference Committee Chair
Shuliang Li, Fellow (Life) of the British Computer Society; University of Westminster UK; Southwest Jiaotong University, China

Conference Committee Co-chairs
Adrian Hopgood, Fellow of the British Computer Society, the University of Portsmouth, UK
Nathan Clarke, Fellow of the British Computer Society, Deputy Head of School, the University of Plymouth, UK

Program Committee Chairs
William Hurst, Wageningen University & Research, Netherlands
Yu-wang Chen, University of Manchester, UK
Joanne Roberts, University of Southampton, UK
Ezendu Ariwa, University of Wales Trinity Saint David, UK (SMIEEE)
Shujun Zhang, University of Gloucestershire, UK
Michael Pace, Texas A&M University, USA
Phyllis Ward, the University of Gloucestershire, UK
Alton Y. K. Chua, Nanyang Technological University, Singapore
Chenggang Li, Beijing Institute of Fashion Technology, China
Patrick Planing, HFT Stuttgart, Germany

Publicity Chairs
Marina Nikolaev, University of Westminster UK
Ali Al-Haj, Princess Sumaya University for technology, Jordan (MIEEE)
Snehasish Banerjee, University of York, UK

Technical Committee Chairs
Shawkat Rahman, Anglia-Ruskin university, UK
Adaviah Mas’od, Universiti Teknologi Malaysia, Malaysia (MIEEE)
Ali Alao, ePromaG, UK (SMIEEE)
Amin Karami, University of East London (UEL), United Kingdom
Amna Javed, Japan Advanced Institute of Science and Technology, Japan
Benjamin Yen, The University of Hong Kong, Hong Kong
Daniel Hunyadi, Lucian Blaga University of Sibiu, Romania
Dickson K.W. Chiu, The University of Hong Kong, Hong Kong (SMIEEE)
Emre Erturk, Eastern Institute of Technology, New Zealand
Haiming Liu, the University of Bedfordshire, UK
Hossein Yousefi, Islamic Azad University, Iran
Jose Alfonso Aguilar, Universidad Autonoma de Sinaloa, Mexico
Kahar Osman, Universiti Teknologi Malaysia, Malaysia
Kevin Caramancion, Mercyhurst University, USA (SMIEEE)
Khaironi Yatim Sharif, Universiti Putra Malaysia (UPM), Malaysia (MIEEE)
Khaled Suwais, Arab Open University, Saudi Arabia
Kholoud Alkayid, University of Wollongong, Australia
Liaqat Ali, USTF Fujairah UAE
Liu Chaoqun, Wuhan University of Technology, China
MADYA DR. YUSMADI YAH BINTI JUSOH, UPM Serdang, Malaysia
Majdi Anwar Quttainah, Kuwait University, Kuwait (MIEEE)
Marzanah A. Jabar, Universiti Putra Malaysia (UPM), Malaysia (MIEEE)
Mike Krey, Zurich University, Switzerland (MIEEE)
MISUK LEE, Seattle University, USA
Nilam Choudhary, SKIT Jaipur, India (SMIEEE)
Nithinant Thammakorananonta, National Institute of Development Administration, Thailand
Noriyuki Suyama, Bunka Gakuen University, Japan
Popentiu Vladicescu, University Politehnica of Bucharest, Romania (MIEEE)
Ricardo de Jesus Gomes, Polytechnic of Leiria, Portugal
Rosina Ibrahim, Universiti Teknologi Malaysia (UTM), Malaysia (MIEEE)
Rubina Bhatti, The Islamia University of Bahawalpur, Pakistan
RUSLI HAJI, Universiti Putra Malaysia, Malaysia
Sho Ooi, Ritsumeikan University, Japan
Shuo Sheng, Zenitera Co. Ltd, China
Singha Chaveesuk, King Mongkut's Institute of Technology Ladkrabang, Thailand
Smitha Sunil Kumaran Nair, Middle East College, Sultanate of Oman (MIEEE)
Syed Muhammad Ali, University of Sciences and Technology (NUST), Pakistan
T.N.D.S Ginige, Universal College Lanka, Colombo, Sri Lanka (MIEEE)
Thoo Ai Chin, Universiti Teknologi Malaysia, Malaysia
Xiaoyu Chen, Shanghai University, China
Yi Yang, School of Biomedical Engineering of Southern Medical University, China
Yoshifumi Manabe, Kogakuin University, Japan (SMIEEE)
Youseef Alotaibi, Umm Al-Qura University, Saudi Arabia
Yukari Shirotta, Gakushuin University, Japan
Yousra Odeh, Philadelphia University, Jordan
Zuraidah Sulaiman, Universiti Teknologi Malaysia, Malaysia (MIEEE)
Muhammad Muqeeet Rehman, Jeju National University, South Korea
Man Fung LO, The University of Hong Kong, China (SMIEEE)
Robinson College, University of Cambridge

Address: Porters’ Lodge, Robinson College, Grange Road, Cambridge, CB3 9AN, UK

https://www.robinson.cam.ac.uk/

How to find us

➢ By road from the M11
  1. Exit at Junction 12 onto the A603 Barton Road
  2. Follow signs for Cambridge along Barton Rd
  3. Less than half a mile after entering the city turn left onto Grange Road
  4. Half a mile on the left is the College (distinctive red brick building, opposite the library tower)

➢ By foot / bicycle
  From Market Square in the town centre, go past Great St Mary’s, heading towards Senate House. Follow Senate House Passage, then right onto Trinity Lane, then left 30 yards later onto Garret Hostel Lane. Cross Queens Road and continue the path running past the University Library. Arrive Grange Road.

➢ By Public Transport
  The College is 10 minutes by taxi from the train or bus stations. The U4 Citibus runs from Brooklands Avenue runs to the College every 20 minutes.
Oral Presentation Instruction
1. Timing: a maximum of 15 minutes total, including speaking time and discussion. Please make sure your presentation is well timed. Please keep in mind that the program is full and that the speaker after you would like their allocated time available to them.
2. You can use USB flash drive (memory stick), make sure you scanned viruses in your own computer. Each speaker is required to meet her/his session chair in the corresponding session rooms 10 minutes before the session starts and copy the slide file (PPT or PDF) to the computer.
3. It is suggested that you email a copy of your presentation to your personal inbox as a backup. If for some reason the files can’t be accessed from your flash drive, you will be able to download them to the computer from your email.
4. Please note that each session room will be equipped with a LCD projector, screen, point device, microphone, and a laptop with general presentation software such as Microsoft PowerPoint and Adobe Reader. Please make sure that your files are compatible and readable with our operation system by using commonly used fronts and symbols. If you plan to use your own computer, please try the connection and make sure it works before your presentation.
5. Videos: If your PowerPoint files contain video clips please make sure that they are well formatted and connected to the main files.
6. Certificates will be given by the session chair right after each presentation.

Dress Code
Please attend the conference in formal attire.

Conference Photos
All the conference photos will be available for download through conference website within one week after the conference.

Safety Reminder: Secure Valuable Items at All Times
We remind you to secure your personal belongings at all times.
* If you are using a laptop computer, do not leave it unattended at any time.
* Keep your purse, wallet and other valuables with you at all times.
The conference organizer will not be responsible for the loss or damage to any personal belongings.
ONLINE INSTRUCTION

Time Zone
London Time (GMT/UTC+0)
You’re suggested to set up the time on your computer in advance.

Platform
We will be using Zoom for all our live stream sessions. So, if you haven’t installed it, please download a Zoom client from: https://zoom.us/download
The Zoom account is not mandatory to attend the conference. If you do not want to register the account, by entering meeting ID is also accessible to our conference.
Learn the Zoom skills at: https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials

Join the Test Session before the Formal Session
**Date: March 8, 2024**
Prior to the formal meeting, presenters shall join the test room to ensure everything is on the right track. Please check your test time on this program.
The Video presentation should be within 13 minutes, 2 minutes for Q&A, in total, one presentation is 15 minutes.

Equipment Needed
- A computer with internet connection and camera
- Headphones

Environment Needed
- Quiet Location
- Stable internet connection
- Proper lighting and background

Attention Please
The conference will be recorded. We will appreciate your proper behavior.

Presentation Recording and Broadcasting
The photograph(s) or video or audio recording(s) will be taken by conference organizer. It will be used in for conference program purpose. The photograph(s) or video or audio recording(s) shall not be used for commercial nor illegal purpose. Each presentation will be recorded, if you don’t want it, please inform our staff ahead of time.
Do not record other presenters’ presentation nor distribute it to or share with anyone unless the presenter gives written consent of agree. Failure to do so will be considered a serious academic violation subject to disciplinary/ lawful action.
## SCHEDULE AT A GLANCE

### March 8th (Friday, GMT+0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-17:00</td>
<td>Onsite Registration: Collecting Conference Materials for Onsite Participants @ Auditorium Foyer, Robinson College</td>
<td></td>
</tr>
</tbody>
</table>

### Online Test

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Zoom Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:30</td>
<td>Online Test Zoom Link 1: Session 5, Session 7</td>
<td><a href="https://us02web.zoom.us/j/86179344186">https://us02web.zoom.us/j/86179344186</a></td>
</tr>
<tr>
<td></td>
<td>Online Test Zoom Link 2: Session 6, Session 8</td>
<td><a href="https://us02web.zoom.us/j/85755638284">https://us02web.zoom.us/j/85755638284</a></td>
</tr>
</tbody>
</table>

### March 9th (Saturday, GMT+0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:10</td>
<td>Opening Remark: Dr. Shuliang Li, University of Westminster, United Kingdom; Southwest Jiaotong University, China</td>
<td>Plenary Room, Crausaz Wordsworth Building</td>
</tr>
<tr>
<td>9:10-9:55</td>
<td>Keynote: Prof. Adrian Hopgood, University of Portsmouth, United Kingdom</td>
<td></td>
</tr>
<tr>
<td>9:55-10:15</td>
<td>Coffee Break and Group Photo: Dr. Shuliang Li, University of Westminster, United Kingdom; Southwest Jiaotong University, China</td>
<td></td>
</tr>
<tr>
<td>10:15-11:00</td>
<td>Keynote: Prof. William Hurst, Wageningen University &amp; Research, Netherlands</td>
<td></td>
</tr>
<tr>
<td>11:00-11:45</td>
<td>Keynote: Dr. Shuliang Li, University of Westminster, United Kingdom; Southwest Jiaotong University, China</td>
<td></td>
</tr>
<tr>
<td>11:45-13:00</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-15:15</td>
<td>Session 1: Intelligent Information Systems and Platform Construction</td>
<td>Plenary Room (ground floor)</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>15:30-17:30</td>
<td>Session 3: Modern Innovative Teaching Models and Learning Methods</td>
<td>Syndicate Room (upstairs)</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td>Dinner Banquet @ Dining Hall, Robinson College</td>
<td></td>
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</tbody>
</table>

### March 10th (Sunday, GMT+0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00-11:30</td>
<td>Onsite Event: University of Cambridge Walking Tour for Voluntary Participants</td>
<td></td>
</tr>
</tbody>
</table>

### Online Meeting

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Zoom Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-10:00</td>
<td>Session 5: Data - Oriented Recommendation Systems and Information Management</td>
<td><a href="https://us02web.zoom.us/j/86179344186">https://us02web.zoom.us/j/86179344186</a></td>
</tr>
<tr>
<td></td>
<td>Session 6: Process Optimization and Management in Modern Integrated Information Systems</td>
<td><a href="https://us02web.zoom.us/j/85755638284">https://us02web.zoom.us/j/85755638284</a></td>
</tr>
<tr>
<td>10:15-12:15</td>
<td>Session 7: AI - based Digital Information Platform Design and Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Session 8: Teaching Methods and Knowledge Engineering</td>
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</tr>
</tbody>
</table>
**Bio:** Adrian Hopgood is an independent consultant in artificial intelligence (AI) and Emeritus Professor of Intelligent Systems at the University of Portsmouth. He is also a visiting professor at the Open University and at Sheffield Hallam University. He is a Chartered Engineer, Fellow of the BCS (the Chartered Institute for IT), and a committee member for the BCS Specialist Group on AI. Professor Hopgood has worked at the level of Dean and Pro Vice-Chancellor in four universities in the UK and overseas, and he has enjoyed scientific roles with Systems Designers PLC and the Telstra Research Laboratories in Australia. His main research interests are in AI and its practical applications. He has supervised 21 PhD projects to completion and published more than 100 research articles. His textbook, "Intelligent Systems for Engineers and Scientists: A Practical Guide to Artificial Intelligence", is ranked as a bestseller and its fourth edition was published in 2022. His website is adrianhopgood.com.

**Artificial Intelligence in Healthcare**

**Abstract:** Some of the earliest applications of artificial intelligence (AI) were in the medical domain, where knowledge-based AI aimed to capture clinical knowledge in a flexible and adaptable computer model. In contrast, the recent surge in interest in AI has been largely driven by machine learning, which involves the recognition of patterns in large datasets. These two styles of AI are complementary and offer the possibility of significant improvements in healthcare. This talk introduces several medical applications of AI, including the prediction of patient outcomes after surgery, avoidance of intradialytic hypotension, interpretation of X-ray images, and improved electronic health records.
Shuliang Li
PhD, Fellow (Life member) of the British Computer Society,
Reader in Business Information Management & Systems
University of Westminster, United Kingdom
(Also Sichuan 100-Talent Scheme Visiting Professor at Southwest Jiaotong University, China)

Bio: Dr Shuliang Li is a Reader in Business Information Management at Westminster Business School, University of Westminster. He acted as BIM&O departmental Research Leader from January 2010 to July 2013. Prof. Li is also Sichuan 100-Talent Scheme Visiting Professor in China for research collaboration purposes. He is a Fellow (Life member) of the British Computer Society (FBCS). (Official Web page: https://www.westminster.ac.uk/about-us/our-people/directory/li-shuliang)

The Metaverse and security: Paradigm, technologies, quantum strategies, intelligent smart avatar and digital clone and consumer behaviour, Metaverse analytics, Metaverse memory recalling, and cyber security endurability and survivability issues

Abstract: The Metaverse is an Internet-based, computer-created and socially connected networking space of three-dimensional virtual-reality worlds. In this keynote, the concept of the Metaverse is introduced, with a hybrid framework and paradigm for communication, interaction, intelligent smart avatar and digital clone behaviour, Metaverse analytics, and business examples. The general strategies including quantum strategies for the Metaverse are also proposed. Relevant technologies including machine learning are also presented. In addition, immersive & hyper-personalised avatar and digital clone and consumer behaviour in the Metaverse are explored, with a simulation example. Moreover, Metaverse analytics and strategic decision-making in the Metaverse contexts are discussed, with such cases as the Otherside, Sandbox, and Decentraland explained. Metaverse memory recalling over the time and 3D space across various worlds will also be discussed and explored. In addition, the cyber security, survivability, endurability and recovery issues will be discussed and examined.
**Bio:** Dr Hurst is an Associate Professor in Data Science and eXtended Realities in the Information Technology Group. He has over 100 international publications in the areas of data science, creative technologies, critical infrastructures, simulation and 3D graphics.

He has held several grants as Principal/Co-Investigator; some of which include EPSRC-funded 'Data Analytics for Health-Care Profiling using Smart Meters' (EP/R020922/1) and InnovateUK-funded Productivity Accelerator (https://gtr.ukri.org/projects?ref=971582).

Prior to working at WUR, he was an award-winning Reader (Associate Professor) in Creative Technologies in the Department of Computer Science at Liverpool John Moores University, where he worked for 6 years. During this time he taught a variety of subjects including Data Visualisation, Digital Games Content Production, Internet and Web Technologies, Research Skills, Interactive Multimedia Systems, Advanced Multimedia, Digital Storytelling and Interactive media and games development.

His education includes a PGCert (Distinction) in Higher Education, a PhD in Computer Science (scholarship focusing on Critical Infrastructures), an MSc with Distinction in Web Computing and a BSc(Hons) in Product Design.

**Creative Technologies for Smart Applications: Trends & Challenges**

**Abstract:** Creative technologies encompass digital tools and methods such as virtual reality, augmented reality and AI-driven design. Their use typically allows the creator some format of artistic expression for interactive installations. The technologies are increasingly finding a footing in how we manage and process information, operating at the communication layer for AI applications - such as language model applications (e.g., ChatGPT), bringing interactive AI into the frame of reference for diverse range of end-users. Further, we are seeing the technologies being increasingly deployed in conjunction in education for digital storytelling and for exploring innovative ways for kinaesthetic learning, where the student becomes an active participant rather than a passive observer. As such, this talk explores some of the diverse creative technology-based case studies investigated at the Social Creative Technologies lab at Wageningen University, with a focus on the lessons we’ve learned particularly regarding their use in both agriculture and education.
# Session 1: Intelligent Information Systems and Platform Construction

**Chairperson: Dr. Shuliang Li, University of Westminster, United Kingdom**

**Time: 13:00-15:15, March 9th, 2024**

**Room: Plenary Room (ground floor)**

*Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:15</td>
<td>(MT24-3101) Non-Functional Requirements Classification for Healthcare Applications in the Metaverse</td>
<td>Yousra Odeh, Al Zaytoonah University of Jordan, Jordan</td>
</tr>
<tr>
<td>13:15-13:30</td>
<td>(MT24-316) Improvement of Non-Conformance Information Reporting System in Construction Projects Using Prototype Design Methodology</td>
<td>Mark Anthony Santiago and Grace Lorraine Intal, Mapua University, Philippines</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>(MT24-3100) A User-Friendly Web-Based Interface for Integrated Life-Cycle Cost Analysis and 3D Asset Visualisation in Real Estate Management</td>
<td>Sarah Duncan, Adamantios Bampoulas, Cathal Hoare, Usman Ali, James O’Donnell, Eleni Mangina, University College Dublin, Ireland</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>(MT24-3123) The Role of Accounting Information Systems on Business Performance – A Proposed AIS Model of Improved Business Performance</td>
<td>Afshan Younas, Arab Open University, Oman</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>(MT24-3163) SISTB: a Health Information System for the Management of Tuberculosis Cases</td>
<td>Vinicius Lima, Nathalia Crepaldi, Filipe Bernardi, Renan Segamarchi, Domingos Alves, University of Sao Paulo, Brazil</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>(MT24-3182-A) Enhancing Auditing Efficiency through Information Management: a Focus on Technology, Inter-Agency Cooperation and Tax Auditors’ Performance</td>
<td>Mohmad Hazar Ahmad, Mazlina Mustapha, Yusniyati Yusri, Saira Kharuddin, Universiti Putra Malaysia Serdang, Malaysia</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>(MT24-3179) Fuzzy logic model for the evaluation of the optimal ready-mixed concrete supplier using a fuzzy neural network in X-FUZZY</td>
<td>Diego Ricardo Cajachagua Guerreros, Sario Angel Chamorro Quijano, Felipe Nestor Gutarra Meza, Continental University of Florida, USA</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td>(MT24-377) Developing a Competency Model for Information Governance in Public Administration</td>
<td>Imke de Jong, Guido Ongena, Natascha Gadellaa, Klaas Brongers, Utrecht University, The Netherlands</td>
</tr>
</tbody>
</table>

**Best Presentation Award & Session Group Photo**
### Session 2: Data Based Information Systems and Security Management

**Chairperson:** Prof. Faris Tarlochan, Qatar University, Qatar

**Room:** Syndicate Room (upstairs)

*Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.*

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 13:00-13:15  | (MT24-370) Innovation Management of Plastic Waste for Sustainable Package for Fresh Produce Postharvest Handling  
Faris Tarlochan, Asma Mecheter  
Qatar University, Qatar |
| 13:15-13:30  | (MT24-317) Unveiling the Dynamics of Consumer Switching Behavior in Drone-Aided E-Commerce Delivery  
Mutlaq B. Aldajani  
Imam Mohammad Ibn Saud Islamic University, Saudi Arabia |
| 13:30-13:45  | (MT24-365-A) Understanding the Impact of Advertising Recommendation Sources on Consumers’ Click-Through Intention in Social Media: Focused on the Differences in Privacy Controls  
Wenfang Fan, Bingjia Shao, Yong Zhang  
Chongqing University, China |
| 13:45-14:00  | (MT24-385) Secure and Transparent Lawyer-in-the-Loop Medico-Legal Insurance Decisions by Explainable AI and Blockchain Technology  
Swati Sachan, Graham Fairclough  
University of Liverpool, United Kingdom |
| 14:00-14:15  | (MT24-392) A Novel Approach to Outlining Research Data Management Life Cycle: A Case Study  
M. Amin Yazdi, Marius Politze, Matthias Müller  
RWTH Aachen University, Germany |
| 14:15-14:30  | (MT24-3143) Towards a Comprehensive Classification of Dentist- Centered Needs in the Metaverse  
Yousra Odeh, Rana Odeh  
Al Zaytoonah University of Jordan, Jordan |
| 14:30-14:45  | (MT24-3106-A) Does Convenience Matter? An Empirical Examination of Blockchain Enabled Service Convenienc  
Hua Dai  
California State University Channel Islands, United States |
| 14:45-15:00  | (MT24-3134) Verification of the Concept of Utilising Personal Computer Log Management Technology to Improve Employee Motivation  
Takumi Kato, Takahiro Kurachi, Ken-ichiro Fujita, Manaka Yajima, Katsuya Hayami, Masaki Koizumi  
NEC Corporation, Japan |
| 15:00-15:15  | (MT24-3160) Deep Learning based Reliable User Identification in Social Media during Crisis  
Valliymma C, Manikandan D, Nithish Kumar G S, Keerthika M, Kavin B  
Anna University, India |

**Best Presentation Award & Session Group Photo**
## Session 3: Modern Innovative Teaching Models and Learning Methods

**Chairperson:** Prof. William Hurst, Wageningen University & Research, Netherlands

**Time:** 15:30-17:45, March 9th, 2024  
**Room:** Plenary Room (ground floor)

*Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>University/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30-15:45</td>
<td>(MT24-3185) Attitude of Non-Teaching Staff Towards the Use of Online Technological Tools for Administrative Task in University of Ibadan, Nigeria</td>
<td>Abiodun Rasaki OMISORE, Omotoyosi Rukayat ERINOSHO</td>
<td>University of Ibadan, Nigeria</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>(MT24-118) Increasing motivation to learn through group work in a competitive environment</td>
<td>Andre Spittel, Constantin Kühn, Devdana Huseinşahic, Dean Müller, Dominik Breck, Susan Labude, Christian Roschke, Marc Ritter, Matthias Vodel</td>
<td>University of Applied Sciences Mittweida, Germany</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>(MT24-121-A) The Future of Learning: Micro-credentials in higher education challenges and opportunities</td>
<td>Moayyad Homidi, Najati Younis</td>
<td>Arab Open University, Jordan</td>
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<td>16:15-16:30</td>
<td>(MT24-126) Measuring cybersecurity teaching: case university students in Finland</td>
<td>Tiina Schafeitel-Tähtinen, Jukka Koskinen, Marko Helenius</td>
<td>Tampere University, Finland</td>
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<td>16:30-16:45</td>
<td>(MT24-127-A) Use of Mobile Learning in Nigeria Teacher Training institutions: Pre-service Teachers’ Perception</td>
<td>Sunday Mathew Adebayo</td>
<td>Kwara State College of Education, Ilorin, Nigeria</td>
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<td>16:45-17:00</td>
<td>(MT24-128-A) Mindfully Slowing Down eLearning with SOUL Intervention</td>
<td>Kyle John Stooshnov</td>
<td>College of the Rockies, Canada</td>
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<td>17:00-17:15</td>
<td>(MT24-139-A) Immediate and medium-term impact of a digital game on cognitive, socioemotional, and precalculus development in vulnerable Chilean preschool children</td>
<td>Cristian Andrés Rojas-Barahona, Anabel Fernández-Blanco, Macarena Natalia Dib, Jorge Gaete, Ricardo Araya</td>
<td>University of Talca, Chile</td>
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<tr>
<td>17:15-17:30</td>
<td>(MT24-107-A) Using Digital Learning Tools: An Explanatory Sequential Mixed Methods Investigation of Saudi Teachers’ Expectations and Realities</td>
<td>Omar Alshehri</td>
<td>University of Bisha, Saudi Arabia</td>
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<th>Speaker(s)</th>
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<tr>
<td>15:30:45</td>
<td>Exploring micro-learning and integrating an AI chatbot in French language classroom</td>
<td>Théry Béord, Angeliki Kordoni</td>
<td>Sorbonne University Abu Dhabi, SUAD Research Institute, United Arab Emirates</td>
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<tr>
<td>15:45:00</td>
<td>Moving Beyond the Plateau with Computer-Assisted Pronunciation Mediation</td>
<td>Evgeny Pyshkin, John Blake, Natalia Bogach</td>
<td>University of Aizu, Japan</td>
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<tr>
<td>16:00:15</td>
<td>Exploring the Collective Presence of Gamification and Rewards for Students’ Engagement in E-Learning Platforms</td>
<td>Runu Mani Das, Madhusudan J.V.</td>
<td>University of Hyderabad, India</td>
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<tr>
<td>16:15:30</td>
<td>Revealing the new generation of Mindtools: Is ChatGpt a mindtool?</td>
<td>Ghadah Almutairy, Rebecca Clark-Stallkamp</td>
<td>Imam Abdulrahman Bin Faisal University, Saudi Arabia</td>
</tr>
<tr>
<td>16:30:45</td>
<td>Role of ChatGPT in STEM (science, technology, engineering and mathematics) education</td>
<td>Khaula Zeeshan, Timo Hämälläinen, Pekka Neittaanmäki</td>
<td>University of Jyväskylä, Finland</td>
</tr>
<tr>
<td>16:45:00</td>
<td>Analysis of digital stereotypes in the adolescent population: A proposal from online collective intelligence</td>
<td>Sonia Valero, Ana Cebollero, Santos Orejudo</td>
<td>University of Zaragoza, Spain</td>
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<tr>
<td>17:00:15</td>
<td>Sentiment analysis and network analysis: a case of collective intelligence with adolescents</td>
<td>Raquel Lozano-Blasco, Monserrat Aiger, Santos Orejudo</td>
<td>Universidad de Zaragoza, Spain</td>
</tr>
<tr>
<td>17:15:30</td>
<td>The Role of Digital Platforms Supported by AI in the Assessment of Practical Skills Learning</td>
<td>Reinaldo R. Rosa</td>
<td>INPE-MCTI, Brasil</td>
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Session 5: Data - Oriented Recommendation Systems and Information Management

Chairperson: Assoc. Prof. Wannaporn Chujitarom, Rangsit University, Thailand

Date: March 10th, 2024

*Note: The schedule of each presentation is for reference only. Authors are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

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| 8:00-8:15 | (MT24-3211) Research on reading promotion based on multi-modal master guide system -- Case of Wuhan University of Technology  
_Xiaotong Guo, Xiaoqing Lin_  
The Library of Wuhan University of Technology, China |
| 8:15-8:30 | (MT24-378) Data Collection of Real-Life Knowledge Work in Context: The RLKWiC Dataset  
_Mahta Bakhshizadeh, Christian Jilek, Markus Schröder, Heiko Maus, Andreas Dengel_  
German Research Center for Artificial Intelligence (DFKI), Germany |
| 8:30-8:45 | (MT24-3189) Concern or Fatigue? Understanding Users’ Reaction to Privacy Protection in Social Media Intelligent Recommendation  
_Xinzhi Xie_  
Wuhan University, China |
| 8:45-9:00 | (MT24-3110) Challenges Complying with Privacy Law in Jamaica  
_Shaun Barrett, Santana Broderick_  
University of Technology, Jamaica |
| 9:00-9:15 | (MT24-3140) Limitations of the Utility of Categorization in eDiscovery Review efforts  
_Bronagh McManus, Tom O’Halloran, Andrew Harbison, Maura R Grossman, Gordon V Cormack_  
Grant Thornton Ireland, Ireland |
| 9:15-9:30 | (MT24-3212) Research on the Construction of Funded Students Portrait in Universities Based on Data Visualization  
_Fan Zhu, Lantian Zhang_  
Wuhan University of Technology, China |
| 9:30-9:45 | (MT24-3112) Measuring Student Engagement Using Log Files  
_Derrick Oliver Logan_  
University of Technology, Jamaica |

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### Session 6: Process Optimization and Management in Modern Integrated Information Systems

**Chairperson:** Prof. Vijayakumar Mani, K.S.Rangasamy College of Technology, India

**Date:** March 10th, 2024  
**Zoom Link:** https://us02web.zoom.us/j/85755638284

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| 8:00-8:15 | (MT24-3154) Evolution of Science and Technology Policy Topics in China: A Study Based on the Dynamic Topic Model  
**Shuang Yang**, Xinying An, Meimei Xu, Huan Gou, Yan Wang, Hua Zhong  
Chinese Academy of Medical Sciences, China |
| 8:15-8:30 | (MT24-302-A) Naturally available rice paper based self-powered humidity sensor for Sustainable future of electronics  
**Muhammad Muqeet Rehman**, Maryam Khan, Woo Young Kim  
Jeju National University, South Korea |
| 8:30-8:45 | (MT24-3109) Towards a canvas for defining and structuring analytics projects  
**Benedict Langer**, Viola Schirrmacher  
Technical University of Munich, Germany |
| 8:45-9:00 | (MT24-3111) ERP System Based on Process Mining for Improving Logistic Management Efficiency in Small and Medium-Sized Enterprises in the Industrial Sector  
**Kevin Jesús Rojas Alvarez**, Emerson Marcelinho Dávila Zuñiga, Pedro Segundo Castañeda Vargas  
Universidad Peruana de Ciencias Aplicadas, Peru |
| 9:00-9:15 | (MT24-3190) Exploring corporate social responsibility through sport: A generative AI perspective  
**Sumaya Abdul Rahman**, Syeda Warisha Fatima Rizvi, Christos Anagnostopoulos, Brenno Menezes  
Hamad bin Khalifa University, Qatar |
| 9:15-9:30 | (MT24-3135) Empowering the Assessment of 'Wicked' Competencies: A Multi Level Knowledge Management Architecture  
**Bhavani Sridharan**, Kinshuk  
Australian Catholic University, Australia |
| 9:30-9:45 | (MT24-3178) A Nonparametric Feature Separability Measure and an Algorithm for Simulating Synthetic Feature Vectors  
Chowtapalle Anuraag Chetty, **Simi V R**, Justin Joseph, Vipin Venugopal  
Manipal Academy of Higher Education, India |
| 9:45-10:00 | (MT24-135) EMBA Practical Teaching Case Analysis-Taking Private Board of Directors as an Example  
Bowen Zhang, Shiqi Mei, **Haowei Ti**, Liang Huang  
Hong Kong Asia Business College, Hong Kong, China |

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# Session 7: AI-based Digital Information Platform Design and Development

**Chairperson:** Assoc. Prof. Bhavani Sridharan, Australian Catholic University, Australia

**Date:** March 10th, 2024  
**Zoom Link:** [https://us02web.zoom.us/j/86179344186](https://us02web.zoom.us/j/86179344186)

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<tr>
<td>10:30-10:45</td>
<td>(MT24-3151E) Practical Research on Digital Graduate Student Work Information Platform</td>
<td>Chunjing Wang, Xu Luo, Jun Xiao, <strong>Jiaqi Lu</strong></td>
<td>Wuhan University of Technology, China</td>
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<td>10:45-11:00</td>
<td>(MT24-3159) Leveraging Generative Artificial Intelligence for Software Antipattern Detection</td>
<td><strong>Jorge Miño</strong>, Roberto Andrade, Jenny Torres, Kharol Chicaiza</td>
<td>Escuela Politècnica Nacional, Ecuador</td>
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<tr>
<td>11:00-11:15</td>
<td>(MT24-3168) Research on the Influence of Chatbot Communication Style on Consumer Comfort</td>
<td>Liang Chang, <strong>Qian Chen</strong>, Yao Yan</td>
<td>Xi'an International Studies University, China</td>
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<tr>
<td>11:45-12:00</td>
<td>(MT24-361) Will Creative Labor Lost Their Jobs? A Social Informatics Study of the “No to AI Generated Images” Campaign</td>
<td><strong>Che Zeng</strong>, Xiaoyu Chen</td>
<td>The University of Sydney, Australia</td>
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# Session 8: Teaching Methods and Knowledge Engineering

**Chairperson:** Asst. Prof. Xiaoyu Chen, Shanghai University, China

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| 10:15-10:30| (MT24-104) Exploring the Role of Facilitator Talk Moves in Online Game-Based Grammar Training  
Hyangeun Ji, Chaewon Kim, Luke Alexander West, Jiabei Xu  
Temple University, USA |
| 10:30-10:45| (MT24-114-A) Realizing Pragmatic Politeness in the Context of Complaint Conversations: Taking TOEIC Listening Section of Teaching Materials as Examples  
Wan-Chien Liao  
National Pingtung University of Science and Technology, Taiwan |
| 10:45-11:00| (MT24-149-A) Exploring English Immersion Programs in Chinese Peixunbans for Young Learners: A Critical Analysis and Practical Insights  
Du Jinming  
University of Otago, New Zealand |
| 11:00-11:15| (MT24-363) Analysis of the Impact of Researchers’ Knowledge Diversity on the research productivity from a knowledge meta-perspective  
Xinru Li, Chaocheng He  
Wuhan University, China |
Chenyu Zhang, Jinying Wang, Liangzhe Xu  
Qilu University of Technology (Shandong Academy of Sciences), China |
| 11:30-11:45| (MT24-3136) How We Cooperated Together on Creative Computing: A Relationship by Bibliometric Perspective  
Yonggang Luo  
Shanghai University of Medicine & Health Sciences, China |
| 11:45-12:00| (MT24-103) Are We Ready? - Investigating Educator’s Post-Pandemic Readiness for the Transition to Online Teaching  
Chaewon Kim, David Pratt  
Florida State University, USA |
| 12:00-12:15| (MT24-3213) Optimizing Social Media Public Opinion Analysis with ABSA: A Case Study on Weibo  
Qiang Wan, Fanming Wang and Sanhong Deng  
Nanjing University, China |

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University of Cambridge Walking Tour

Description:

This 90-minute walking tour with a Cambridge Green Badge Guide will give you an entertaining and informative introduction to this marvelous city. You'll hear about how the university/college system works, why we have a debt to Oxford, see a variety of sights connected with such immense figures as Isaac Newton and Stephen Hawking, look at the Old Cavendish Laboratory, perhaps the most important building in Cambridge, a very famous pub, a mysterious clock and one or two rather quirky things....