

CONFERENCE  
ABSTRACT

**AEIS** Workshop **WSIM 2021**

*2021 International Conference on  
Advanced Enterprise Information System*

**ICSLT** Workshop **ICIMP 2021**

*2021 7th International Conference on  
e-Society, e-Learning and e-Technologies*

*Full Virtual Style* **June 18-20, 2021**

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1

Participants' Guideline

2

ZOOM Test Schedule

3

Agenda Overview

4

Introduction for Speakers

5

Parallel Sessions

# CONTENTS



## Participants' Guideline

**01** Install ZOOM  
URL: <https://zoom.com.cn/download>

**Join a Meeting without Sign In**

**02** Enter the conference ID to  
join the conference room.  
ROOM : 567 618 0620

**Set Names as**

**03** Author: Paper ID + Name  
Listener: Listener + Name  
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### Tips for your presentation

- ◆ Open all of the windows (Power Points, websites, etc.) that you will need to share before you start.
- ◆ Please join in the online meeting room by ZOOM in advance and check your ZOOM software, earphone and microphone in advance in order to a smooth presentation.
- ◆ Annotation features can be accessed by hovering your mouse near the top of the screen and clicking Annotate.
- ◆ Make sure you're in a quiet room with proper lighting and stable internet connection.



## Participants' Guideline

- A** All time schedule is following GMT+3 (St. Petersburg's Local Time)
- B** Please unmute audio and start video while your presentation. It's suggested to use headset with microphone or earphone with microphone.
- C** Each presentation of the regular author is 15 minutes includes Q&A.
- D** An excellent presentation will be selected by the session chair from each technical session and announced at the end of the day.
- E** Please ensure the network is stable during the conference.
- F** Presentation certificate will be sent to you by email after the conference.

# ZOOM Test Schedule

June 18th, Friday (GMT+3)

Time (GMT+3)	Paper ID
8:30-10:00	IL025, IL027, IL026-A, AW004, IL005, AW001, AW501
10:00-13:30	IL002, AW502, IL2002, IL019, IL021, IL022



ROOM ID: **567 618 0620**

<https://zoom.com.cn/j/5676180620>

# Agenda Overview

June 19th, Saturday (GMT+3)

ROOM ID: 567 618 0620 (Link: <https://zoom.com.cn/j/5676180620>)

Time (GMT+3)	Activity	Speaker
8:30	Online Meeting Room Start Note: Please join in the meeting room before 9:15 am.	
9:30-9:35	Welcome Message	Assoc. Prof. Alexander Kolyshkin, Herzen State Pedagogical University of Russia, Russia
9:35-9:40	Opening Remarks	Prof. Hui Yu, University of Portsmouth, UK
9:40-10:20	<b>Speech I</b> Speech Title: Creating a culture to foster knowledge sharing and organisational learning in businesses	Prof. Shaofeng Liu, University of Plymouth, UK

10:20-11:00	<b>Speech II</b> Speech Title: Human and AI Collaboration for Better Decision Making: Emerging Challenges and Research Opportunities	Prof. Yanqing Duan, University of Bedfordshire, UK
11:00-11:40	<b>Speech III</b> Speech Title: Deep learning application and facial analysis on data in the wild	Prof. Hui Yu, University of Portsmouth, UK
11:40-13:00	Break Time	
13:00-14:30	<b>Technical Session 1</b> Topic: Enterprises Informatization and Information Management	AW004, AW501, IL2002, AW502, IL019, IL002

# Agenda Overview

June 20th, Sunday (GMT+3)

ROOM ID: 567 618 0620 (Link: <https://zoom.com.cn/j/5676180620>)

Time (GMT+3)	Activity	Speaker
9:30	Online Meeting Room Start Note: Please join in the meeting room before 9:15 am.	
9:30-10:10	<b>Speech IV</b> Speech Title: E-Teacher vs E-Student	Prof. Michele Della Ventura, Music Academy 'Studio Musica', Italy
10:10-10:50	<b>Speech V</b> Speech Title: Machine Learning Approaches for Learning Temporal Point Processes	Prof. Boris Delibasic, University of Belgrade, Serbia
10:50-13:00	Break Time	
13:00-14:45	<b>Technical Session 2</b> Topic: E-Education and E-Learning	IL025, IL021, IL005, AW001, IL026-A, IL022, IL027



## > Prof. Shaofeng Liu, University of Plymouth, UK

**Biography:** Shaofeng Liu is Professor of Operations Management and Decision Making at University of Plymouth, UK. She is currently the Associate Head of School for Research and Innovation for Plymouth Business School. Her main research interests and expertise are in knowledge management, decision support systems, business digitalization and e-commerce, as well as enterprise information systems applications for supply chain management, resource efficiency, process improvement, quality management and value chain innovation. She obtained her PhD degree from Loughborough University, UK. She has undertaken a great number of influential research projects funded by UK research councils and European Commission with a total value of over €40M. Currently, she is the Principal Investigator for three Horizon 2020 projects funded by European Commission. She has published over 180 peer-reviewed research papers.

She sits on the Management Board for Euro Working Group on Decision Support Systems, an international professional society dedicated to decision making and decision support systems. She is the Associate Editor for International Journal of Decision Support System Technology (IJDSST) since 2015 and for Journal of Decision Systems (2013-2018), and Senior Editor for Cogent Business and Management (2015-2019). In 2020, she published a new book on “Knowledge Management - An Interdisciplinary Approach for Business Decisions”. For more details, please refer to her professional website: <http://www.plymouth.ac.uk/staff/sliu1>



## **Speech Title: Creating a culture to foster knowledge sharing and organisational learning in businesses**

**Abstract:** Culture has been referred to as the DNA of a business organization which is about the patterns of human interactions and is often deeply ingrained in business practice. In particular, culture is likely to influence top-down knowledge activities in terms of both the depth and breadth of knowledge sharing. Subsequently, organizational culture may exert a powerful influence on knowledge related behaviours, especially when it comes to organizational learning. A challenging question that needs answering is how can business organizations create and manage a desirable culture to enable and accommodate knowledge sharing and learning activities for success, that is, to be innovative and transformative, further to sustain their competitive advantage in the market. This talk will discuss the nature of organizational culture from various perspectives, and analyse different models of creating organizational culture. Then, potential impacts of organizational culture on knowledge sharing and learning will be explored. Finally, the talk concludes with recommendations on how to create a supportive organizational culture to facilitate knowledge sharing and learning.



## > Prof. Yanqing Duan, University of Bedfordshire, UK

**Biography:** Yanqing (Yan) Duan (BSc, MSc, PhD, SFHEA) is a full Professor of Information Systems and founder and director of Business and Information Systems Research Centre (BISC) at the Business School, University of Bedfordshire. Her principal research interest is the development and use of emerging ICTs (e.g. AI, Big Data, IoT and analytics) and their impact on organisational performance, decision making, and knowledge management. She is a regular expert evaluator for various major funding bodies. Professor Duan has led and participated in many research projects on digital transformation and digital agriculture and aquaculture in collaboration with international, European, and UK partners. She has received many research grants from various funding sources, such as: European Commission, Innovate UK, UK Department For International Development (DFID), BBSRC, JISC, British Council, etc. She is an associated editor for International Journal of Information Management and Decision Support System. She has published over 250 peer reviewed articles including papers in European Journal of Operational Research, European Journal Information Systems, European Journal of Marketing, IEEE transaction on Engineering Management, Information & Management, The Information Society, Journal of Business Research, Industrial Marketing Management, Technovation, Information Technology and People.



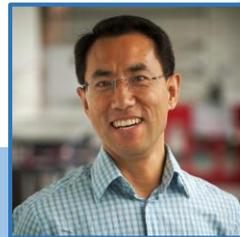
## **Speech Title: Human and AI Collaboration for Better Decision Making: Emerging Challenges and Research Opportunities**

**Abstract:** The use of AI for decision making has been one of the most important applications in AI history, but it has always been contentious. With the resurgence of AI, how can human decision makers and new artificial intelligence work together for better decision making? This talk will review the AI development from a decision making perspective and share the speaker's reflections on the lessons learned from her research on AI for decision making in the last two decades. The speaker will discuss and highlight the emerging challenges and research opportunities on the applications of AI for better decision making.

# Introduction For Speaker

> **Prof. Hui Yu**, University of Portsmouth, UK

June 19 | 11:00—11:40 (GMT+3)



**Biography:** Dr. Hui Yu is a Chair/Professor with the University of Portsmouth in the UK. He is the Head of the Visual Computing Group at the university. His main research interest lies in visual computing and big data analysis, particularly in understanding and sensing the visual world of human related issues with semantic interpretation. It involves and develops knowledge and technologies in vision, machine learning, virtual reality, brain-computer interaction and robotics. Professor Yu's research work has led to many awards and successful collaboration with worldwide institutions and industries. He has led projects supported by EPSRC, ESRC, Royal Academy of Engineering, EU-FP7 and industries. He has extensive contributions to the international research community with organizing and chairing international research conferences and summer schools. He is also Associated Editor of IEEE Transactions on Human-Machine Systems journal and Neurocomputing journal.



## **Speech Title: Deep learning application and facial analysis on data in the wild**

**Abstract:** Video analysis has been an active research field with popular applications. The vast demands and advancement of technologies have enabled a wide range of applications of sensing systems for capturing facial performance and affective states. With the availability of the complex facial data, a large body of research has been conducted in the past decades. However, there are still significant challenges in this area due to new applications and higher accuracy demands. In-the-wild facial data under unconstrained conditions pose a big challenge to existing facial analysis approaches. In this talk we will address the challenges and some new solutions to facial and gaze analysis on wild data. We will also discuss the fundamental techniques in face frontalization, facial landmark localization and gaze estimation with their applications.



## > Prof. Michele Della Ventura, Music Academy 'Studio Musica', Italy

**Biography:** Michele Della Ventura, professor of Music Technology, is a learning expert, researcher and instructional designer. His research interests include correlation between music and mathematics with a particular emphasis on artificial intelligence research in the field of computer-aided analysis of tonal music; intelligent systems; enhancing teaching and learning with technology; assessment for learning and strategies and models for the effective integration of technology into the curriculum at all academic levels.

He is the author of several articles presented at many conferences and published in international science magazines and high school textbooks (also featured at the International Book Salon of Turin in 2012 and 2018). He proofreads articles and is a member of scientific committees in International Conferences. He was invited as keynote speaker to International Conferences in Italy, Austria, Canada, China, Czech Republic, France, Germany, Hong Kong, Hungary, Ireland, Japan, Norway, Poland, Portugal, Romania, Singapore, Spain, UK, US (Baltimore, Boston, Las Vegas, New York, Washington).

Michele Della Ventura has also consulted on Big Data and Semantic Technology projects in Italy. Some of the projects include indexation of the symbolic level of musical text. He is currently involved in a research project related to technology supported learning in collaboration with Università di Roma La Sapienza. He teaches Music Informatics in University courses at Music Academies and Conservatories and Musical Technologies in Music High Schools.



## Speech Title: E-Teacher vs E-Student

**Abstract:** Nowadays we find ourselves witnessing, not always adequately aware, of a great change, the one produced by digital media and the web. Hence the need for teachers to educate first of all themselves, if they want to guarantee a good education to students, that is, the most direct witnesses of this change. And this is possible not from outside but, as far as possible, from within the media. Only in this way does the teacher begin a learning process that leads him to discover new environments in which learning and teachings are presented as circular and interchangeable; roles have marked elements of flexibility; the learning materials are conceived as open and therefore constantly integrable and modifiable by all the actors (students, teachers, tutors); the environments take on various configurations, in order to the different activities that gradually emerge within the learning community; communications proceed according to multidirectional trends. In this talk we will address the challenges that teachers have to face in order to organize learning experiences and thus improve the learning process.

# Introduction For Speaker

June 20 | 10:10-10:50 (GMT+3)



## > Prof. Boris Delibasic, University of Belgrade, Serbia

**Biography:** Boris Delibašić is a full professor at the University of Belgrade - Faculty of Organizational Sciences, Republic of Serbia. His research interests lie in data science, machine learning, business intelligence, multicriteria decision analysis, and decision support systems. He is a coordinator of the EWG-DSS. He was guest lecturer on the Friedrich Schiller University of Jena, Germany, 2006 - 2011. He was awarded with the Fulbright Visiting Scholar Grant in 2011. He has been granted projects from several research agencies (Swiss National Science Foundation, German academic exchange service, Office for Naval Research, Serbian Ministry of Science).



## Speech Title: Machine Learning Approaches for Learning Temporal Point Processes

**Abstract:** Despite a vast application of temporal point processes in infectious disease diffusion forecasting, ecommerce, traffic prediction, preventive maintenance and many others there is no significant development in improving the simulation and prediction of temporal point processes in real world environments. With this problem at hand we propose a novel methodology for learning temporal point processes based on one-dimensional numerical integration techniques. These techniques are used for linearising the negative maximum likelihood (neML) function and to enable backpropagation of the neML derivatives. Our approach is tested on two real-life datasets. Firstly, on high frequency point process data, prediction of highway traffic, and secondly, on a very low frequency point processes dataset, prediction of ski injuries in ski resorts. Four different point process baseline models were compared: second-order Polynomial inhomogeneous process, Hawkes process with exponential kernel, Gaussian process and Poisson process. The results show the ability of the proposed methodology to generalize on different datasets and illustrate how different numerical integration techniques and mathematical models influence the quality of the obtained models. The presented methodology is not limited to these datasets and can be further used to optimize and predict other processes that are based on temporal point processes.

## **Session Chair:**

Assoc. Prof. Mitsunori Hirogaki,  
Kyushu University, Japan

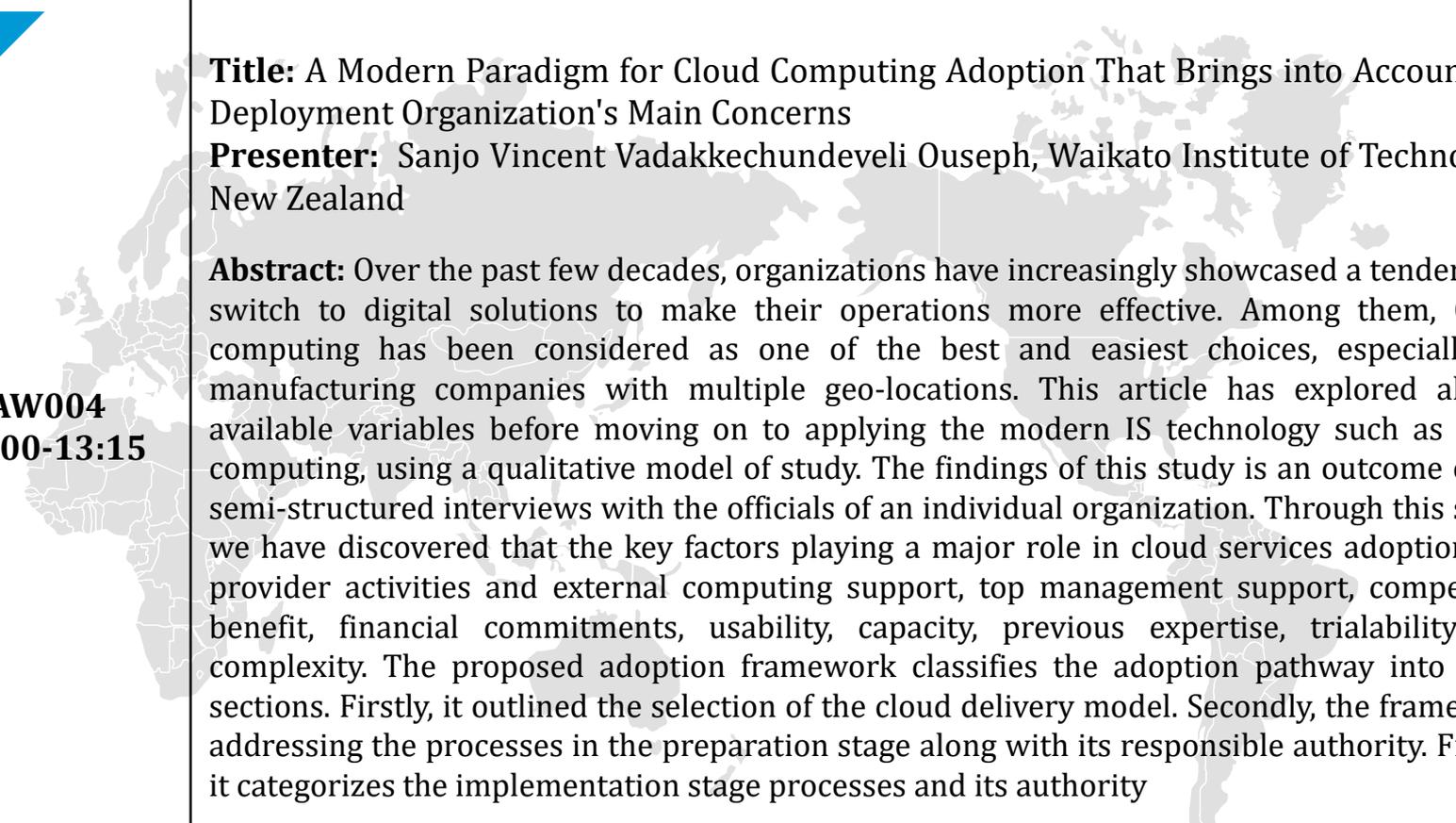
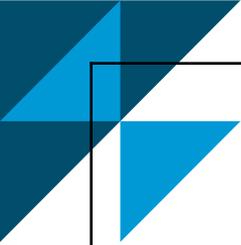
# **Technical Session 1**

- Please join the conference room 20 minutes in advance before the session starting.
- An excellent presentation will be selected and announced at the end of the session.
- Presentation certificates will be sent by email after the conference.

June 19<sup>th</sup>, Saturday | 13:00 – 14:30 (GMT+3)

ROOM ID: 567 618 0620

Topic: Enterprises Informatization and Information Management

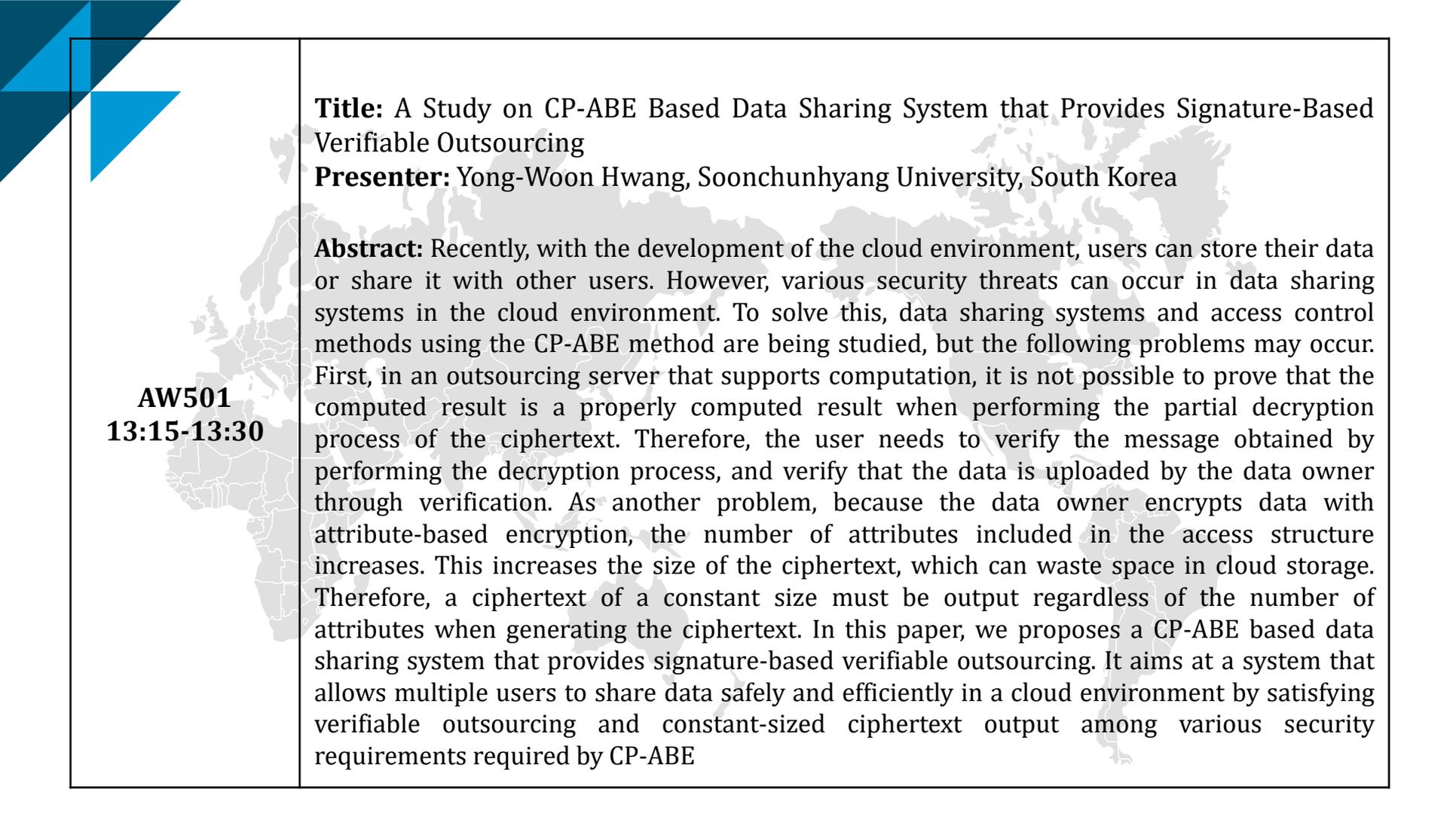


**AW004**  
**13:00-13:15**

**Title:** A Modern Paradigm for Cloud Computing Adoption That Brings into Account the Deployment Organization's Main Concerns

**Presenter:** Sanjo Vincent Vadakkechundevili Ouseph, Waikato Institute of Technology, New Zealand

**Abstract:** Over the past few decades, organizations have increasingly showcased a tendency to switch to digital solutions to make their operations more effective. Among them, Cloud computing has been considered as one of the best and easiest choices, especially for manufacturing companies with multiple geo-locations. This article has explored all the available variables before moving on to applying the modern IS technology such as cloud computing, using a qualitative model of study. The findings of this study is an outcome of the semi-structured interviews with the officials of an individual organization. Through this study, we have discovered that the key factors playing a major role in cloud services adoption are: provider activities and external computing support, top management support, competitive benefit, financial commitments, usability, capacity, previous expertise, trialability and complexity. The proposed adoption framework classifies the adoption pathway into three sections. Firstly, it outlined the selection of the cloud delivery model. Secondly, the framework addressing the processes in the preparation stage along with its responsible authority. Finally, it categorizes the implementation stage processes and its authority

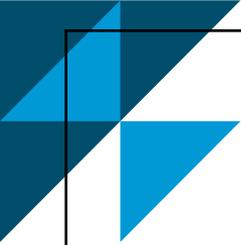


**AW501**  
**13:15-13:30**

**Title:** A Study on CP-ABE Based Data Sharing System that Provides Signature-Based Verifiable Outsourcing

**Presenter:** Yong-Woon Hwang, Soonchunhyang University, South Korea

**Abstract:** Recently, with the development of the cloud environment, users can store their data or share it with other users. However, various security threats can occur in data sharing systems in the cloud environment. To solve this, data sharing systems and access control methods using the CP-ABE method are being studied, but the following problems may occur. First, in an outsourcing server that supports computation, it is not possible to prove that the computed result is a properly computed result when performing the partial decryption process of the ciphertext. Therefore, the user needs to verify the message obtained by performing the decryption process, and verify that the data is uploaded by the data owner through verification. As another problem, because the data owner encrypts data with attribute-based encryption, the number of attributes included in the access structure increases. This increases the size of the ciphertext, which can waste space in cloud storage. Therefore, a ciphertext of a constant size must be output regardless of the number of attributes when generating the ciphertext. In this paper, we propose a CP-ABE based data sharing system that provides signature-based verifiable outsourcing. It aims at a system that allows multiple users to share data safely and efficiently in a cloud environment by satisfying verifiable outsourcing and constant-sized ciphertext output among various security requirements required by CP-ABE



**IL2002**  
**13:30-13:45**

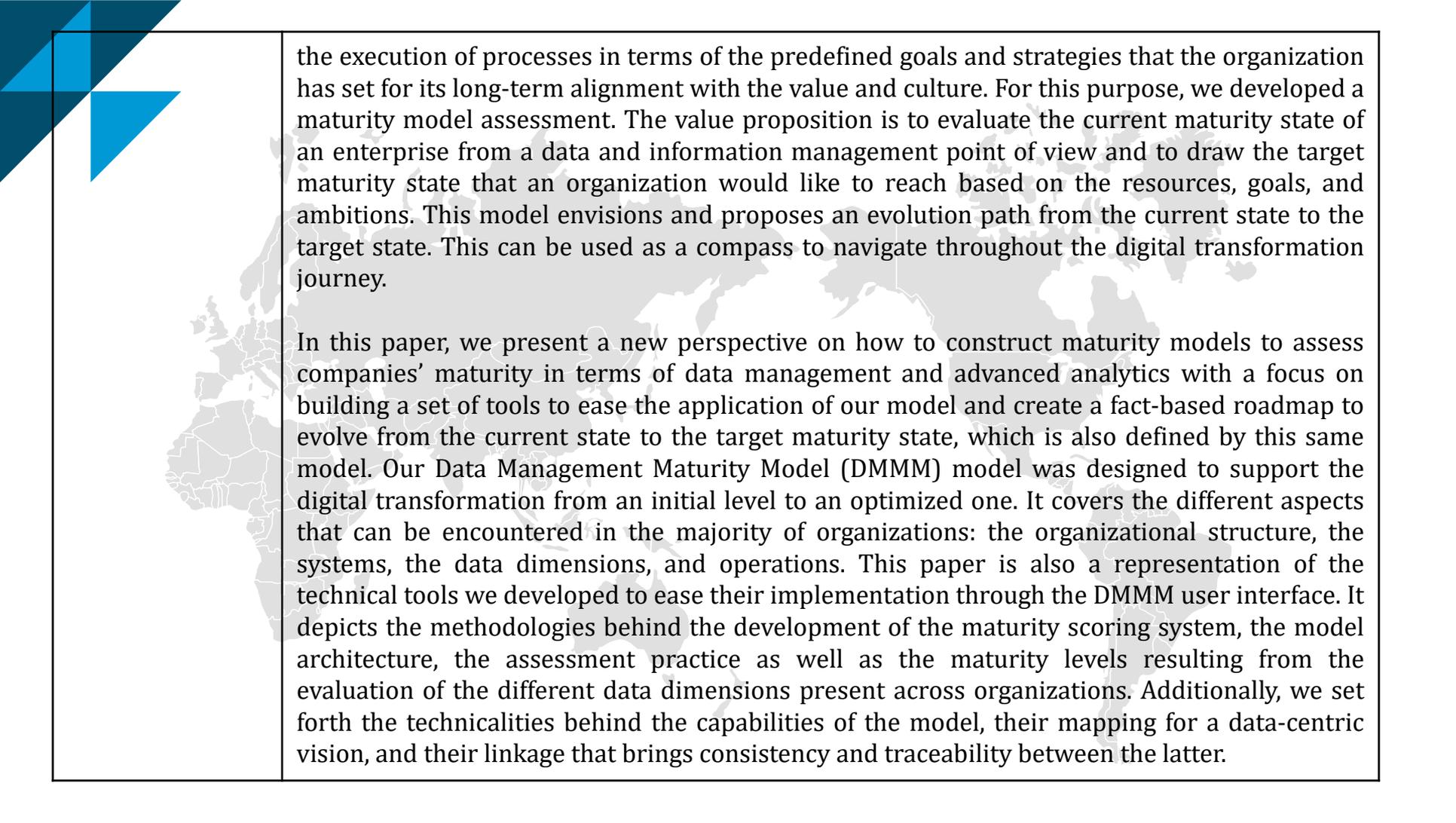
**Title:** Dynamic lexical framework to evaluate the evolution of emotions in Twitter  
**Presenter:** Javier Cabezas, Data Science Laboratory (DSLAB), Rey Juan Carlos University, Spain

**Abstract:** Human emotions and sentiments are dynamic by nature. Nowadays, social networks have become a key resource for human communication and a faithful representation of this dynamism. This fact poses major challenges to those systems addressing sentiment analysis. Therefore, having systems capable of inferring this dynamism has become a key issue. In this paper we introduce Emoweb 2.0, a prototype for dynamic sentiment analysis of Twitter data. A well-known lexicon is taken as starting basis and new words are appended by an unsupervised learning algorithm governing the process. Sentiment values of new words are calculated and dynamically updated depending on the trends detected. Tweet sentiment scores are also computed during the process. A visualization module is included to observe word sentiment fluctuations over time. The experiment performed is based on the ongoing COVID-19 pandemic showing promising results.

**AW502**  
**13:45-14:00**

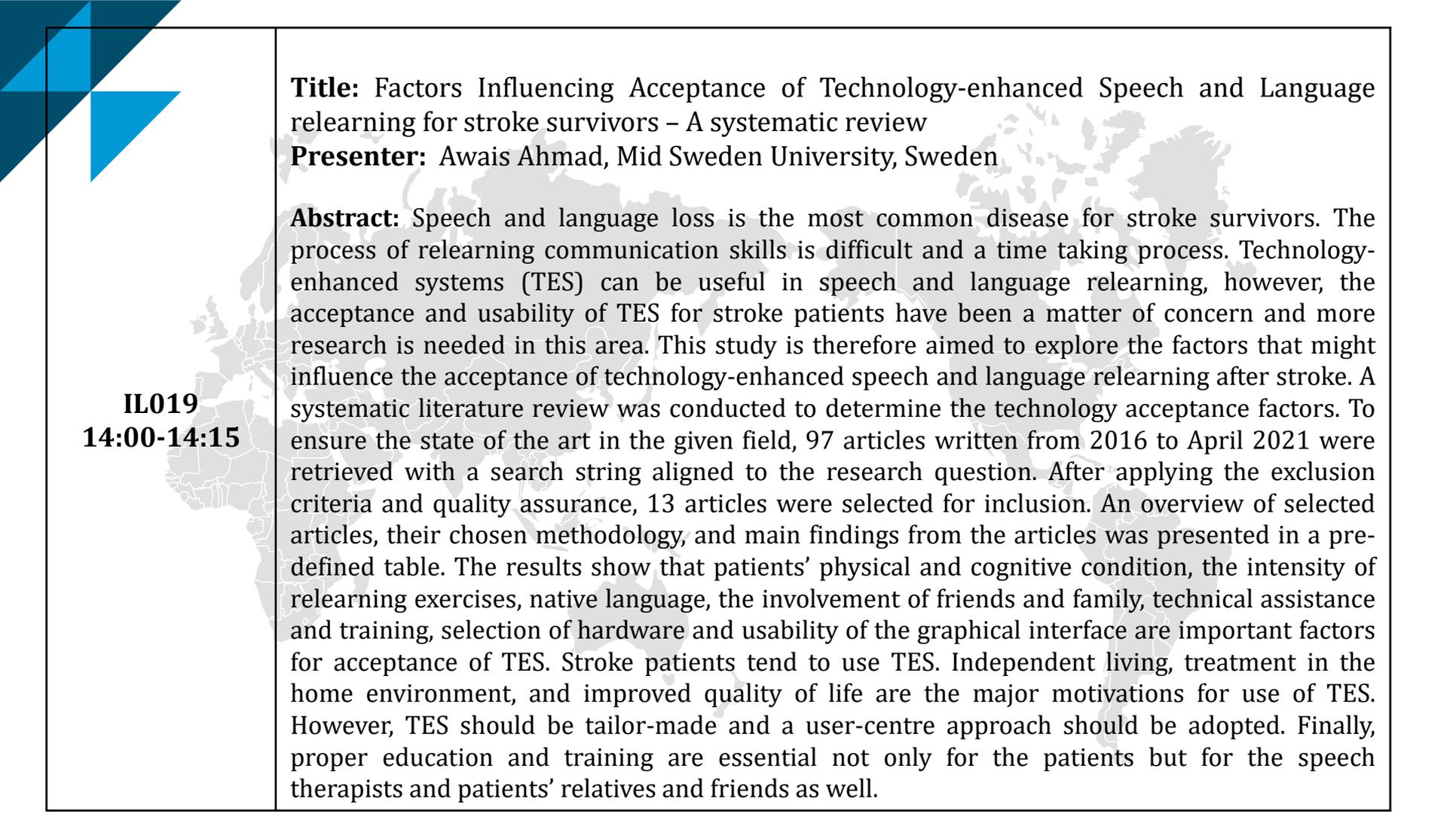
**Title:** DMMM: Data Management Maturity Model  
**Presenter:** Cyrine Zitoun, EURA NOVA, Tunisia

**Abstract:** The assessment of the digital transformation progress is essential to understand and undertake in order to evaluate the level of maturity of data-driven companies in terms of data capabilities and to plan for improvement actions. Maturity models evaluate the performance and



the execution of processes in terms of the predefined goals and strategies that the organization has set for its long-term alignment with the value and culture. For this purpose, we developed a maturity model assessment. The value proposition is to evaluate the current maturity state of an enterprise from a data and information management point of view and to draw the target maturity state that an organization would like to reach based on the resources, goals, and ambitions. This model envisions and proposes an evolution path from the current state to the target state. This can be used as a compass to navigate throughout the digital transformation journey.

In this paper, we present a new perspective on how to construct maturity models to assess companies' maturity in terms of data management and advanced analytics with a focus on building a set of tools to ease the application of our model and create a fact-based roadmap to evolve from the current state to the target maturity state, which is also defined by this same model. Our Data Management Maturity Model (DMMM) model was designed to support the digital transformation from an initial level to an optimized one. It covers the different aspects that can be encountered in the majority of organizations: the organizational structure, the systems, the data dimensions, and operations. This paper is also a representation of the technical tools we developed to ease their implementation through the DMMM user interface. It depicts the methodologies behind the development of the maturity scoring system, the model architecture, the assessment practice as well as the maturity levels resulting from the evaluation of the different data dimensions present across organizations. Additionally, we set forth the technicalities behind the capabilities of the model, their mapping for a data-centric vision, and their linkage that brings consistency and traceability between the latter.

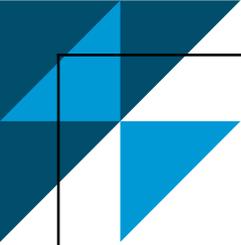


**Title:** Factors Influencing Acceptance of Technology-enhanced Speech and Language relearning for stroke survivors – A systematic review

**Presenter:** Awais Ahmad, Mid Sweden University, Sweden

**Abstract:** Speech and language loss is the most common disease for stroke survivors. The process of relearning communication skills is difficult and a time taking process. Technology-enhanced systems (TES) can be useful in speech and language relearning, however, the acceptance and usability of TES for stroke patients have been a matter of concern and more research is needed in this area. This study is therefore aimed to explore the factors that might influence the acceptance of technology-enhanced speech and language relearning after stroke. A systematic literature review was conducted to determine the technology acceptance factors. To ensure the state of the art in the given field, 97 articles written from 2016 to April 2021 were retrieved with a search string aligned to the research question. After applying the exclusion criteria and quality assurance, 13 articles were selected for inclusion. An overview of selected articles, their chosen methodology, and main findings from the articles was presented in a pre-defined table. The results show that patients' physical and cognitive condition, the intensity of relearning exercises, native language, the involvement of friends and family, technical assistance and training, selection of hardware and usability of the graphical interface are important factors for acceptance of TES. Stroke patients tend to use TES. Independent living, treatment in the home environment, and improved quality of life are the major motivations for use of TES. However, TES should be tailor-made and a user-centre approach should be adopted. Finally, proper education and training are essential not only for the patients but for the speech therapists and patients' relatives and friends as well.

**IL019**  
**14:00-14:15**



**IL002**  
**14:15-14:30**

**Title:** Personalized dynamic pricing with RFM modeling

**Presenter:** Konstantinos N. Vavliakis, Aristotle University of Thessaloniki, Greece

**Abstract:** Dynamic pricing primitives from the airline and hotel industry have lately shifted to the wider electronic retail industry, however there is still a lack of ready to use frameworks for applying or testing dynamic pricing policies in online e-commerce stores. This has practically generated limitations in the way dynamic pricing can be applied in real-life. This paper introduces a new dynamic pricing model that uses an extended version of the RFM model to calculate a personal price for each product sold online. Moreover, our work introduces an open-source simulation framework that allows testing and validation of different dynamic pricing policies. According to our evaluation, the proposed methodology achieved 54.33% increase in net profits when compared with nine other merchants following a fixed pricing policy and 16.13% increase when compared with the derivative-following pricing strategy.

## **Session Chair:**

Asst. Prof. Ahmath Bamba MBACKE,  
Universite Cheikh Anta DIOP,  
Senegal

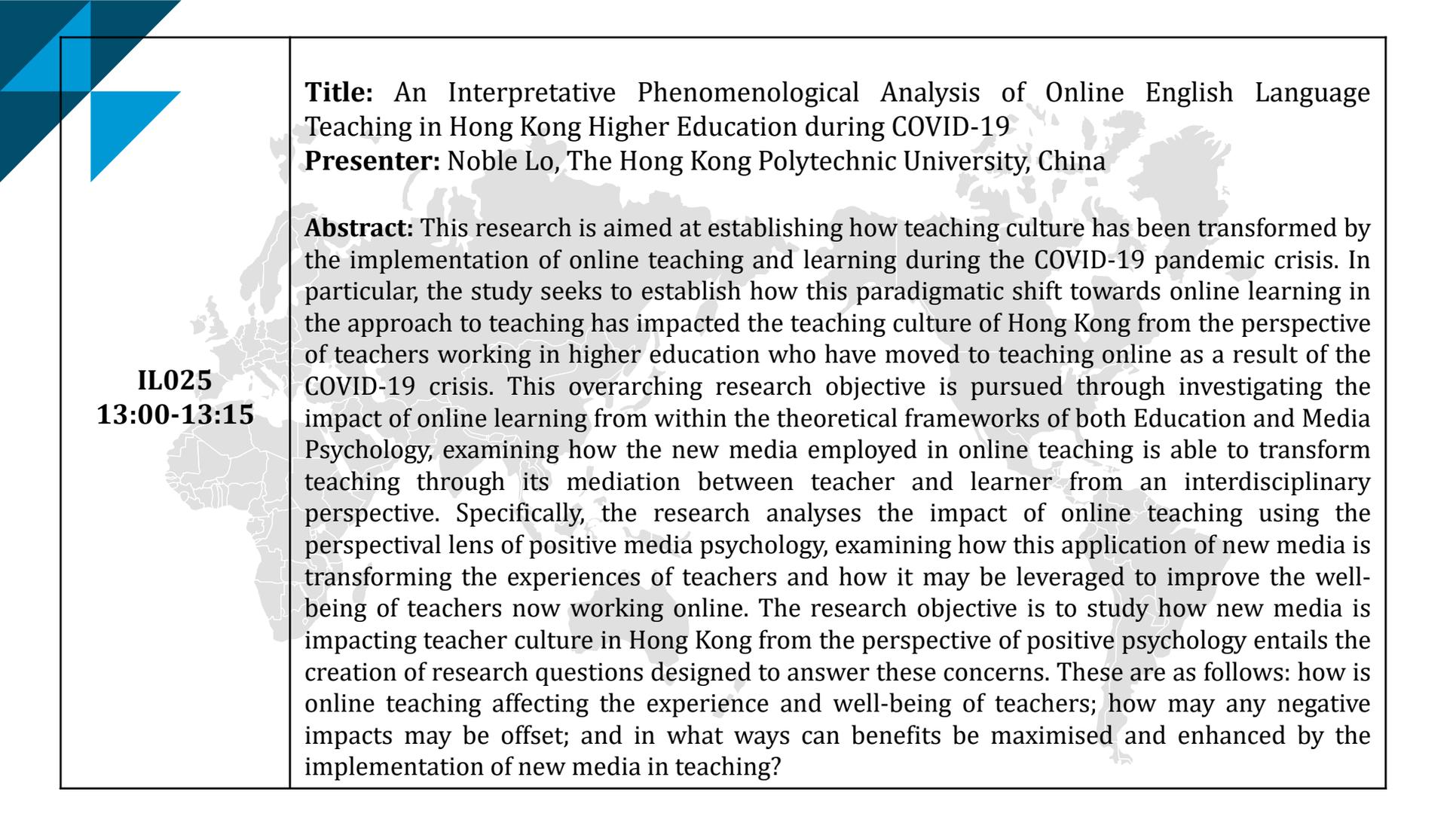
## **Technical Session 2**

- Please join the conference room 20 minutes in advance before the session starting.
- An excellent presentation will be selected and announced at the end of the session.
- Presentation certificates will be sent by email after the conference.

June 20<sup>th</sup>, Sunday | 13:00 – 14:45 (GMT+3)

ROOM ID: 567 618 0620

Topic: E-Education and E-Learning

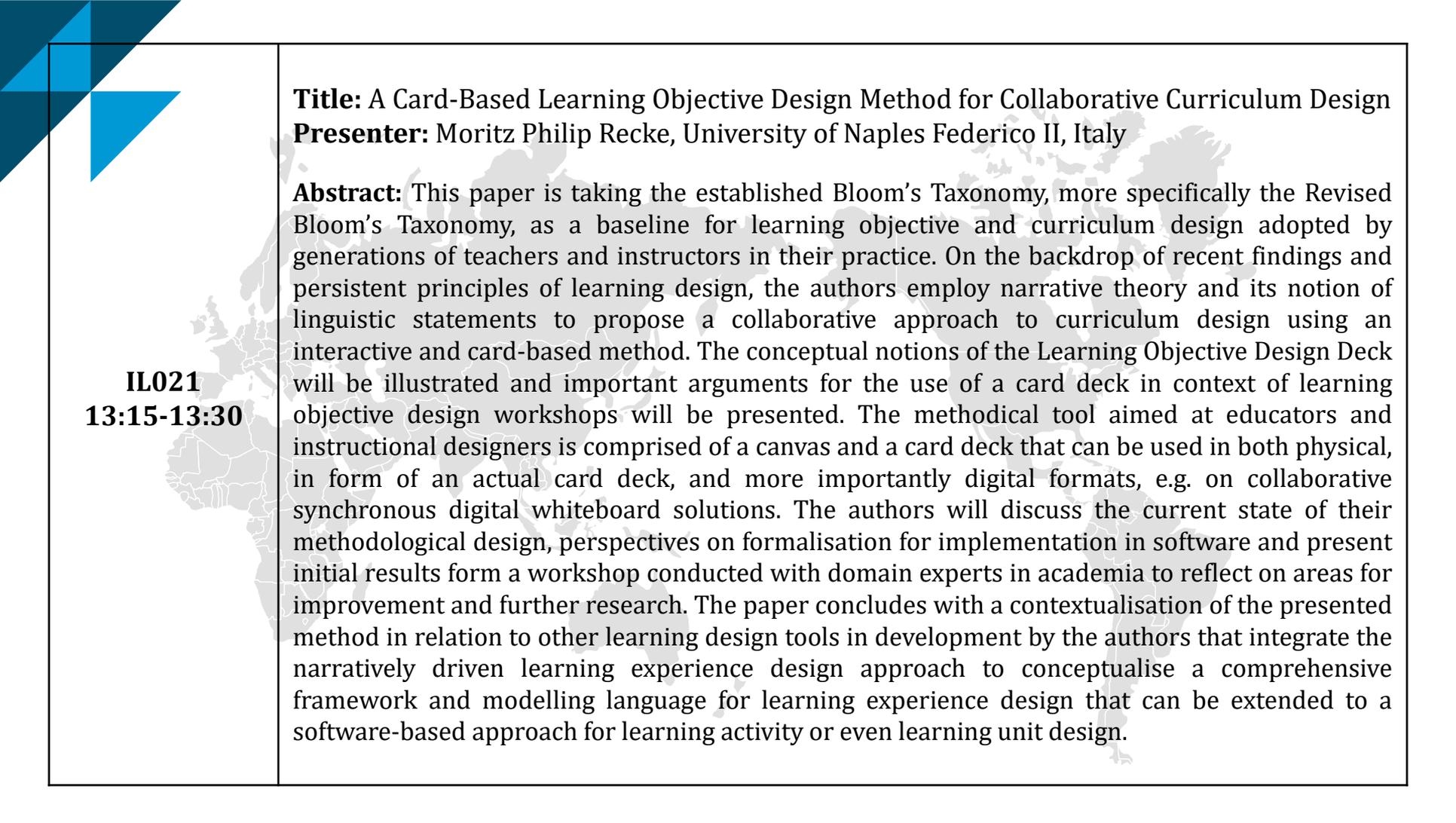


**IL025**  
**13:00-13:15**

**Title:** An Interpretative Phenomenological Analysis of Online English Language Teaching in Hong Kong Higher Education during COVID-19

**Presenter:** Noble Lo, The Hong Kong Polytechnic University, China

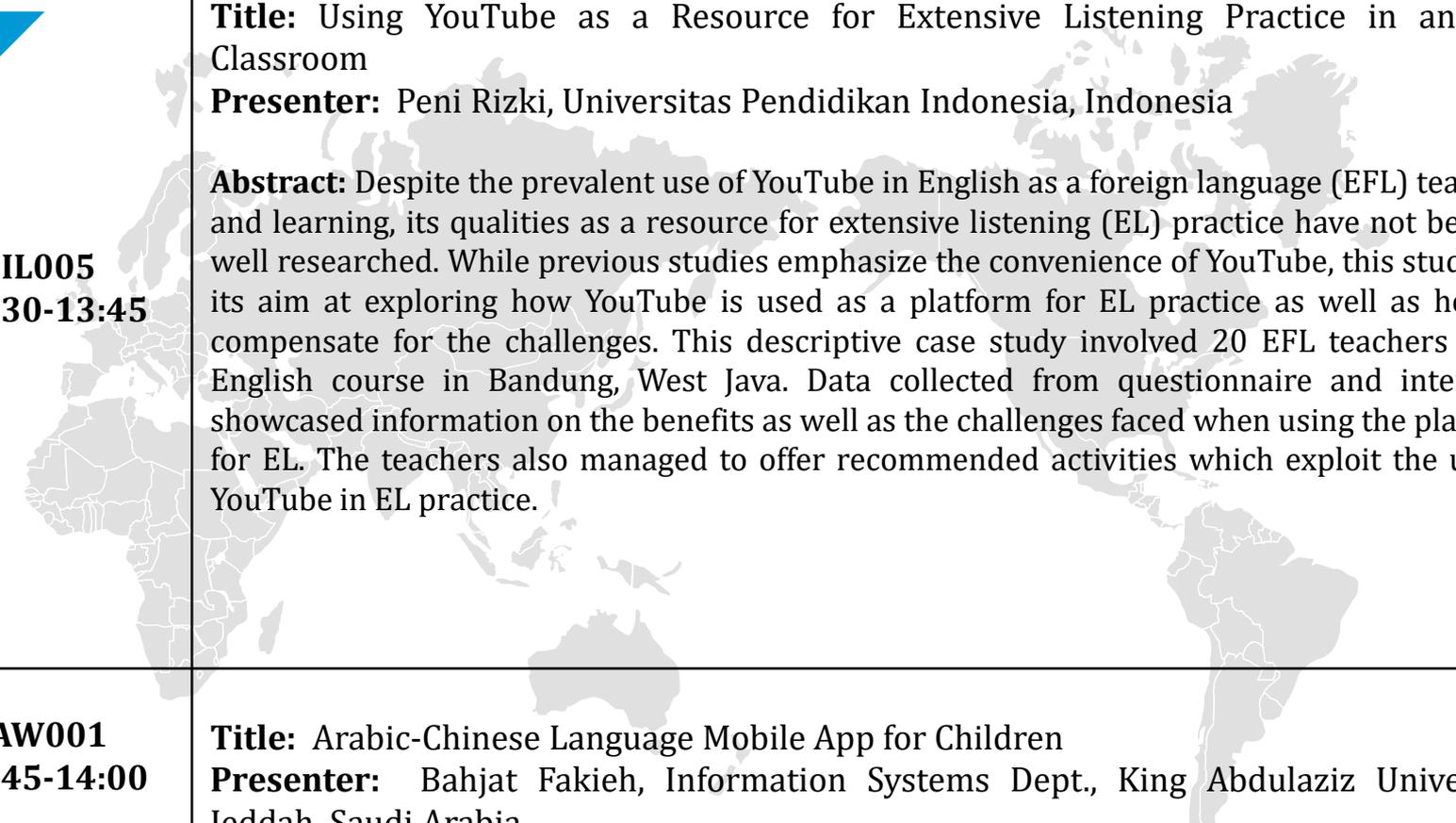
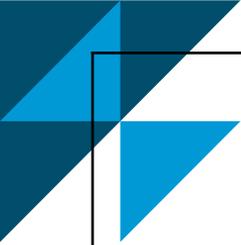
**Abstract:** This research is aimed at establishing how teaching culture has been transformed by the implementation of online teaching and learning during the COVID-19 pandemic crisis. In particular, the study seeks to establish how this paradigmatic shift towards online learning in the approach to teaching has impacted the teaching culture of Hong Kong from the perspective of teachers working in higher education who have moved to teaching online as a result of the COVID-19 crisis. This overarching research objective is pursued through investigating the impact of online learning from within the theoretical frameworks of both Education and Media Psychology, examining how the new media employed in online teaching is able to transform teaching through its mediation between teacher and learner from an interdisciplinary perspective. Specifically, the research analyses the impact of online teaching using the perspectival lens of positive media psychology, examining how this application of new media is transforming the experiences of teachers and how it may be leveraged to improve the well-being of teachers now working online. The research objective is to study how new media is impacting teacher culture in Hong Kong from the perspective of positive psychology entails the creation of research questions designed to answer these concerns. These are as follows: how is online teaching affecting the experience and well-being of teachers; how may any negative impacts may be offset; and in what ways can benefits be maximised and enhanced by the implementation of new media in teaching?



**IL021**  
**13:15-13:30**

**Title:** A Card-Based Learning Objective Design Method for Collaborative Curriculum Design  
**Presenter:** Moritz Philip Recke, University of Naples Federico II, Italy

**Abstract:** This paper is taking the established Bloom's Taxonomy, more specifically the Revised Bloom's Taxonomy, as a baseline for learning objective and curriculum design adopted by generations of teachers and instructors in their practice. On the backdrop of recent findings and persistent principles of learning design, the authors employ narrative theory and its notion of linguistic statements to propose a collaborative approach to curriculum design using an interactive and card-based method. The conceptual notions of the Learning Objective Design Deck will be illustrated and important arguments for the use of a card deck in context of learning objective design workshops will be presented. The methodical tool aimed at educators and instructional designers is comprised of a canvas and a card deck that can be used in both physical, in form of an actual card deck, and more importantly digital formats, e.g. on collaborative synchronous digital whiteboard solutions. The authors will discuss the current state of their methodological design, perspectives on formalisation for implementation in software and present initial results from a workshop conducted with domain experts in academia to reflect on areas for improvement and further research. The paper concludes with a contextualisation of the presented method in relation to other learning design tools in development by the authors that integrate the narratively driven learning experience design approach to conceptualise a comprehensive framework and modelling language for learning experience design that can be extended to a software-based approach for learning activity or even learning unit design.



**IL005**  
**13:30-13:45**

**Title:** Using YouTube as a Resource for Extensive Listening Practice in an EFL Classroom

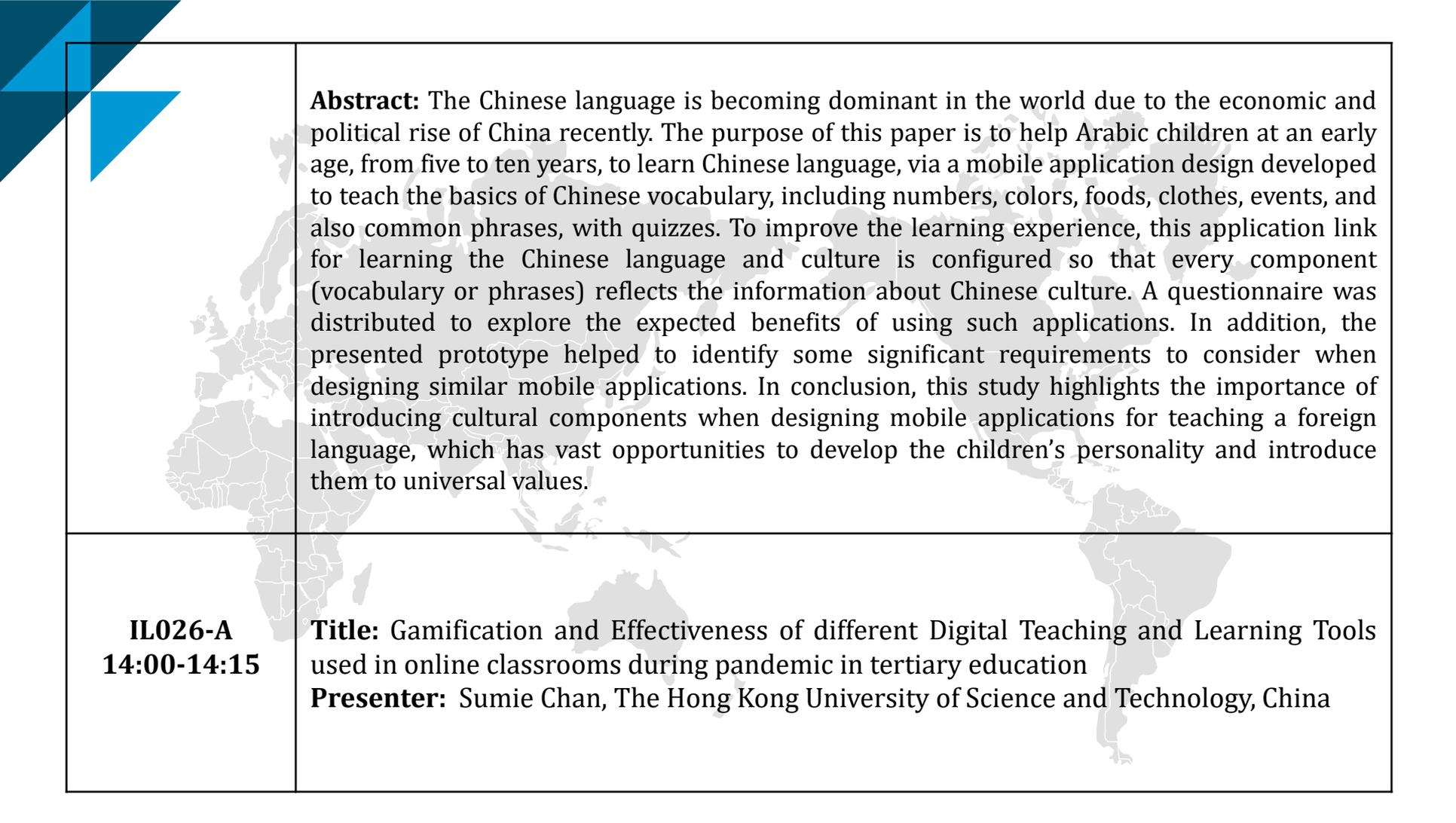
**Presenter:** Peni Rizki, Universitas Pendidikan Indonesia, Indonesia

**Abstract:** Despite the prevalent use of YouTube in English as a foreign language (EFL) teaching and learning, its qualities as a resource for extensive listening (EL) practice have not been so well researched. While previous studies emphasize the convenience of YouTube, this study has its aim at exploring how YouTube is used as a platform for EL practice as well as how to compensate for the challenges. This descriptive case study involved 20 EFL teachers of an English course in Bandung, West Java. Data collected from questionnaire and interview showcased information on the benefits as well as the challenges faced when using the platform for EL. The teachers also managed to offer recommended activities which exploit the use of YouTube in EL practice.

**AW001**  
**13:45-14:00**

**Title:** Arabic-Chinese Language Mobile App for Children

**Presenter:** Bahjat Fakieh, Information Systems Dept., King Abdulaziz University, Jeddah, Saudi Arabia

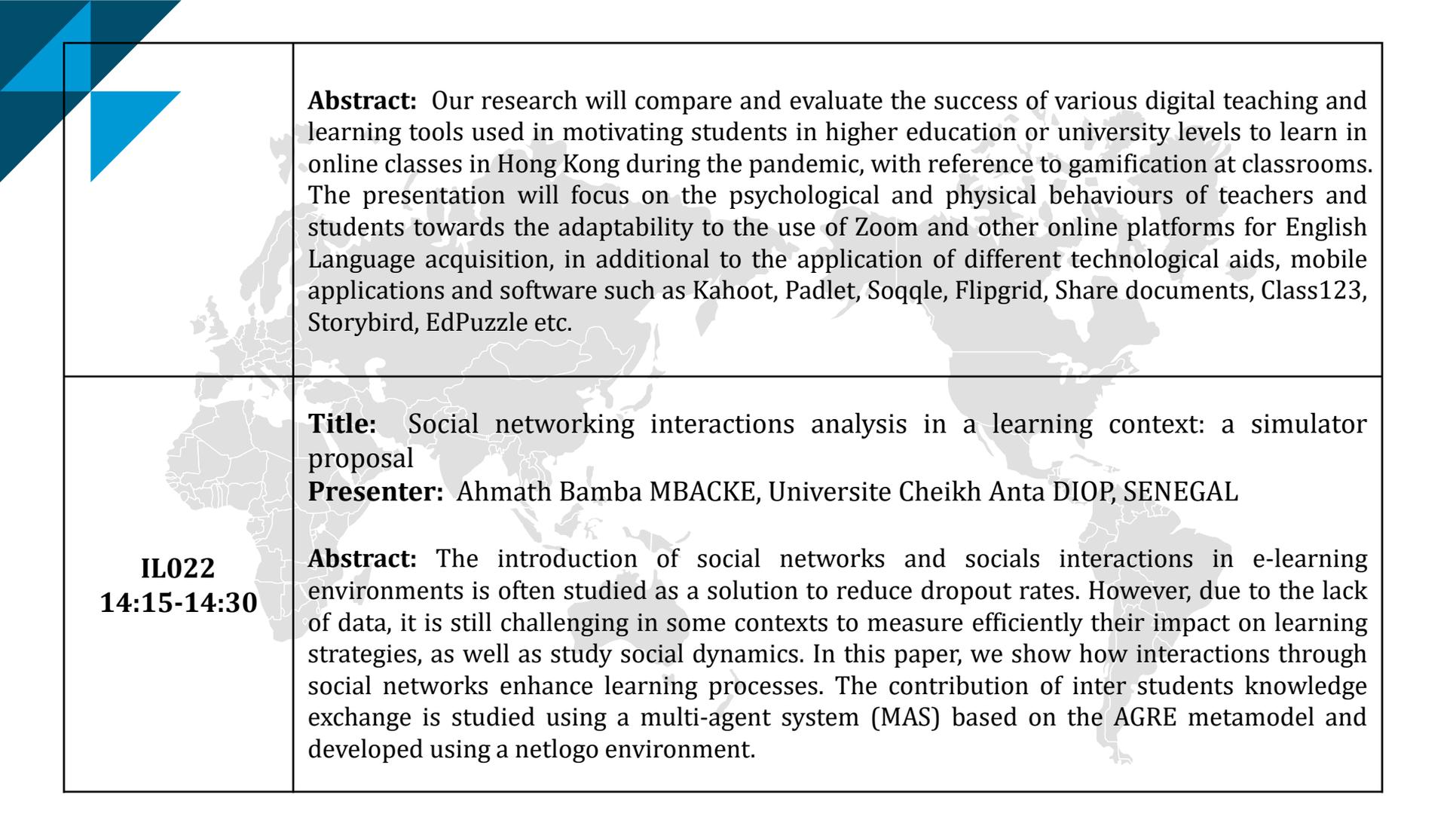


**Abstract:** The Chinese language is becoming dominant in the world due to the economic and political rise of China recently. The purpose of this paper is to help Arabic children at an early age, from five to ten years, to learn Chinese language, via a mobile application design developed to teach the basics of Chinese vocabulary, including numbers, colors, foods, clothes, events, and also common phrases, with quizzes. To improve the learning experience, this application link for learning the Chinese language and culture is configured so that every component (vocabulary or phrases) reflects the information about Chinese culture. A questionnaire was distributed to explore the expected benefits of using such applications. In addition, the presented prototype helped to identify some significant requirements to consider when designing similar mobile applications. In conclusion, this study highlights the importance of introducing cultural components when designing mobile applications for teaching a foreign language, which has vast opportunities to develop the children's personality and introduce them to universal values.

**IL026-A**  
**14:00-14:15**

**Title:** Gamification and Effectiveness of different Digital Teaching and Learning Tools used in online classrooms during pandemic in tertiary education

**Presenter:** Sumie Chan, The Hong Kong University of Science and Technology, China



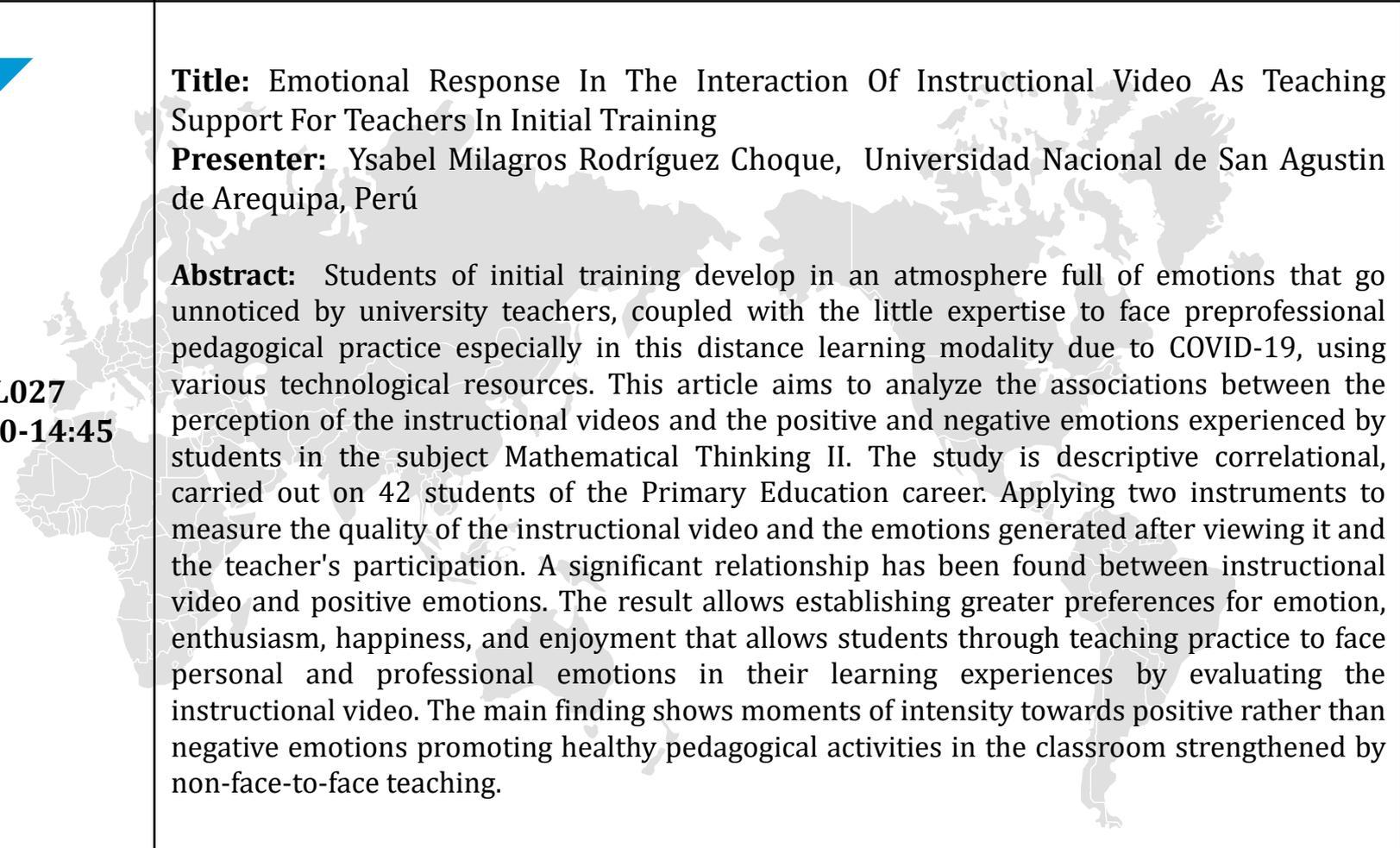
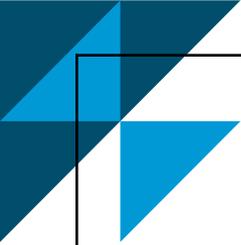
**Abstract:** Our research will compare and evaluate the success of various digital teaching and learning tools used in motivating students in higher education or university levels to learn in online classes in Hong Kong during the pandemic, with reference to gamification at classrooms. The presentation will focus on the psychological and physical behaviours of teachers and students towards the adaptability to the use of Zoom and other online platforms for English Language acquisition, in addition to the application of different technological aids, mobile applications and software such as Kahoot, Padlet, Soqle, Flipgrid, Share documents, Class123, Storybird, EdPuzzle etc.

**Title:** Social networking interactions analysis in a learning context: a simulator proposal

**Presenter:** Ahmath Bamba MBACKE, Universite Cheikh Anta DIOP, SENEGAL

**IL022**  
**14:15-14:30**

**Abstract:** The introduction of social networks and social interactions in e-learning environments is often studied as a solution to reduce dropout rates. However, due to the lack of data, it is still challenging in some contexts to measure efficiently their impact on learning strategies, as well as study social dynamics. In this paper, we show how interactions through social networks enhance learning processes. The contribution of inter students knowledge exchange is studied using a multi-agent system (MAS) based on the AGRE metamodel and developed using a netlogo environment.



**IL027**  
**14:30-14:45**

**Title:** Emotional Response In The Interaction Of Instructional Video As Teaching Support For Teachers In Initial Training

**Presenter:** Ysabel Milagros Rodríguez Choque, Universidad Nacional de San Agustín de Arequipa, Perú

**Abstract:** Students of initial training develop in an atmosphere full of emotions that go unnoticed by university teachers, coupled with the little expertise to face preprofessional pedagogical practice especially in this distance learning modality due to COVID-19, using various technological resources. This article aims to analyze the associations between the perception of the instructional videos and the positive and negative emotions experienced by students in the subject Mathematical Thinking II. The study is descriptive correlational, carried out on 42 students of the Primary Education career. Applying two instruments to measure the quality of the instructional video and the emotions generated after viewing it and the teacher's participation. A significant relationship has been found between instructional video and positive emotions. The result allows establishing greater preferences for emotion, enthusiasm, happiness, and enjoyment that allows students through teaching practice to face personal and professional emotions in their learning experiences by evaluating the instructional video. The main finding shows moments of intensity towards positive rather than negative emotions promoting healthy pedagogical activities in the classroom strengthened by non-face-to-face teaching.

**Thanks for Your Support and Participation !**

Hope to see you next year !