

THE 1ST INTERNATIONAL CONFERENCE ON LIFESPAN INNOVATION ICLI2025

"Aging and Longevity: An Interdisciplinary
Approach to Enhancing Quality of Life"



Hosted by Payap University in cooperation with international partners

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Preface

We are honored to present the proceedings of the **1st International Conference on Lifespan Innovation (ICLI 2025)**, held virtually on **June 12–13, 2025**, and hosted by **Payap University**, in collaboration with esteemed international partners. This inaugural conference marks a significant milestone for both the academic and professional communities dedicated to aging and longevity, and it coincides with Payap University's 50th anniversary, a celebration of five decades of academic excellence, innovation, and global engagement.

The central theme of ICLI 2025, "*Aging and Longevity: An Interdisciplinary Approach to Enhancing Quality of Life*," reflects the growing urgency and opportunity in addressing aging through a multifaceted lens. To this end, ICLI 2025 convened thought leaders, researchers, and practitioners across disciplines to explore new paradigms, share evidence-based innovations, and develop collaborative strategies that advance health span and quality of life in aging societies. The conference featured five primary technical tracks:

- **Health and Medicine**
- **Society and Humanities**
- **Business and Economics**
- **Technology**
- **Psychology**

Each track provided a forum for engaging with critical aspects of aging, ranging from wellness technologies and mental health care to smart assistive systems and the social dynamics of aging. We are pleased to report that ICLI 2025 received a total of **139 submissions** from scholars and professionals worldwide. Following a rigorous **double-blind peer review** process involving three independent reviewers per manuscript, **51 papers were accepted**, and **88 were rejected**, ensuring the academic integrity and relevance of the proceedings. Selected peer-reviewed papers are scheduled for publication in the *Advances in Health Sciences Research* series by Atlantis Press (part of Springer Nature) and will be submitted for indexing in **CPCI (Clarivate Web of Science)**, with additional evaluation for inclusion in **Ei Compendex** and **Scopus**, where applicable.

Beyond academic exchange, ICLI 2025 aimed to foster long-term collaboration among researchers, policymakers, and innovators across sectors. The conference also served as a platform for students and early-career professionals to engage with global experts and emerging ideas at the forefront of aging research and innovation.

On behalf of the organizing committee, we extend our sincere gratitude to all who contributed to the success of this conference including authors, reviewers, keynote speakers, session chairs, and participants. Your dedication and insights have laid a strong foundation for future editions of ICLI, and helped shape an inclusive, collaborative vision for addressing the complex challenges of aging.

We look forward to continuing this important dialogue and advancing the science and practice of lifespan innovation together.

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Keynote Speakers



Bernard T. Adeney-Risakotta

Title: Rebirth and Death after Retirement

Abstract: "He who is not busy being born, is busy dying." (Bob Dylan) These are the sentiments of a young man. However, being reborn and dying may not be dualistic contradictions or mutually exclusive choices but rather complementary challenges. Old age and retirement bring a new awareness of the inescapable reality of death. Consciousness that our days are numbered, concentrates the mind wonderfully. This can lead to new questions about who we are, who we want to be and how we want to spend the limited amount of time which we have left on this earth. In order to die well, we may need to be reborn.

Biography: Bernard Adeney-Risakotta, founder of Edge Resort Yogyakarta, was the first director of ICRS at Universitas Gadjah Mada. He has taught at several universities and authored books on ethics, religion, and multi-cultural identity. Email: baryogya@gmail.com



Seung Hwan Kang

Title: Smart Assistive Technologies for Longevity Lifestyles

Abstract: With age, it is becoming harder to live independently and ensure a high quality of life. Simultaneously, recent smart devices allow elderly people to live more comfortably and safely. These technologies, based on Artificial Intelligence (AI), provide individual support for elders' special needs. Devices like wearables that collect information, such as heart rate and activity levels, can be used to spot early health issues, such as falls, strokes, or impairments due to chronic disease. By using these tools, supported by telemedicine, healthcare becomes more accessible and can be personalized to the needs of each individual. AI additionally plays a role in brain health, for instance, with dementia, Alzheimer's, or multiple sclerosis. Smart devices, virtual assistants, and memory aids offer mental challenges that help train and activate the brain. These technologies can also provide emotional support, creating the effect of human companionship and belonging. Smart home devices are also playing a role in keeping elderly people safe at home. The use of a smart home environment, where lights, thermostats, and alarms act automatically, can create a safer area for the elderly and provide them with a sense of safety. In general, such artificial intelligence-driven tools not only promote physical safety but also psychological well-being. They also allow older people to stay connected to others, enabling them to socialize and stay physically active. This has allowed older adults to live more independently and enjoy an improved quality of life.

Biography: Assistant Professor Seung Hwan Kang, Ph.D., previously served as the Dean of the International College. He has over 20 years' experience of Information Technology in higher education. During his career, he has published over 50 papers in international conference proceedings and journals. He has worked on the Technical Program Committees and Editorial Review Boards of many conferences and journals besides his work. He has also been invited to deliver presentations on other occasions, at which he shares his knowledge and experience with other audiences. Though his early work concerned the Semantic Web and Artificial Intelligence, lately he has given attention to the role of IT in business and corporate contexts.



Dhanashree Ghare

Title: Medication and Mental Health Care for Longevity

Abstract: The integration of medication, mental health care, and yoga presents a promising approach to enhancing longevity by fostering both physical and psychological well-being in aging populations. As life expectancy continues to rise, managing mental health conditions such as anxiety, depression, and cognitive decline becomes critical for promoting healthy aging. Medications, can alleviate symptoms of mental health disorders and improve quality of life. However, combining pharmacological interventions with practices like yoga offers a holistic approach that addresses not only the biological aspects of health but also the emotional and cognitive dimensions. Yoga, with its emphasis on mindful movement, breath control, and meditation, has been shown to reduce stress, enhance mood, improve cognitive function, and promote relaxation. These benefits complement the effects of medication, potentially reducing the need for higher doses of pharmaceutical treatments and their associated side effects. This paper explores the synergistic potential of combining medication with yoga to optimize mental health care, emphasizing how this integrative approach can contribute to longer, healthier lives by promoting emotional balance, cognitive resilience, and overall well-being.

Biography: Dhanashree Ghare is a mental health professional and is working as a Counsellor at Marathwada Mitra Mandal Institutes. She has a Masters degree in Educational Psychology from Savitribai Phule Pune University (SPPU) and an additional Masters and Specialist (Ed.S) degree in School Psychology from the University of Dayton, US.

She focuses on Positive Psychology, holistic mental health and well-being among students and faculty. She has conducted workshops on Happiness, Mindfulness and other topics related to mental health.



Mei-Chih Hu

Title: Forecasting Technological Convergence for Smart Long-Term Care Industry

Abstract: With the global aging population increasing, aging has gradually become a critical challenge that governments and various sectors urgently need to address. As a result, the smart long-term care industry is becoming increasingly important. Understanding the development trends in the smart long-term care industry not only helps enterprises gain a competitive advantage but also accelerates the industry's growth cycle. Technology convergence, which involves combining multiple existing technologies into new ones, has become a major pathway for technological innovation. Given the smart long-term care industry's focus on integrating diverse applications, technology convergence plays a significant role in its technological development. The primary purpose of this study is to utilize link prediction, combined with the XGBoost model in machine learning, to predict impending technology convergence in the smart long-term care field. This study uses data from the United States Patent and Trademark Office (USPTO), considering the simultaneous appearance of multiple patent classification codes in a single patent as an indication of technology convergence. Cluster indicators are calculated using social network analysis, with a total of 12 indicators aggregated. Subsequently, principal component analysis is used to retain variance while reducing dimensionality. Finally, XGBoost is employed to identify potential technology convergence. This study provides companies within the industry with a reference for research and development directions

Biography: Mei-Chih Hu is a Professor at the Institute of Technology Management, National Tsing Hua University, Taiwan (email: mchu@mx.nthu.edu.tw). She is also the Director of Center of Technology Innovation & Entrepreneurship and a Research Fellow for Advanced Biohydrogen Technology Asia-Pacific Economic Cooperation (APEC). Her research is in the areas of entrepreneurship, innovation system, intellectual property rights, emerging industries (particularly green energy and biotechnology) in Asia, and latecomer strategy. She is currently acting as an Editor-in-Chief at Technological Forecasting and Social Change and Advisory Editor for Research Policy. Her papers have been published in a variety of journals including Research Policy, Nature, World Development, Regional Studies, and Innovation and Industry.



Yipei Liu

Title: Towards A Structured Approach to Quality Ageing: Experience from China

Abstract: Like many other countries in the developing world, China is experiencing rapid ageing in its population. While this trend presents pressing socio-economic challenges, it also provides opportunities for innovation in care delivery, community building, and business incubation. Efforts have been made in the public as well as private sectors to create and upgrade a network of infrastructure and services covering home-, community-, and facility-based settings, with the aim to create an accessible, affordable and sustainable system that enables the elderly to age with dignity, quality, and opportunity. This presentation will share some of the practices being implemented and experimented in China, and preliminary lessons drawn, in hope to spark interest and inspiration among international practitioners.

Biography: Yipei Liu is the President of Polus International College, a higher educational institution in Chengdu, China, specializing in technical and vocational education in the services sector. Prior becoming an educator, Yipei worked as a strategy consultant at Deloitte and Boston Consulting Group, where he had extensive experience serving leading healthcare providers, insurers, developers, investors, and government agencies on corporate development, strategic investment and industrial planning initiatives. Some of his clients included China Resources, CITIC Group, Taikang Life, and regional governments in Sichuan, Guangdong, and Anhui Province. Yipei holds a BA in Economics and Management from Oxford University, and an M.Phil in Planning, Growth, and Regeneration from Cambridge University.



Ingrid Rügge

Title: Soft Skill Development for Multidisciplinary Cooperation

Abstract: Aging and Longevity of human beings are challenges that the world is facing increasingly. To deal with these challenges, research, innovations, and measurements are needed in and from different academic disciplines. To be mostly efficient, international cooperation across these disciplines would be helpful. That is commonly agreed. But what has to be done concretely and what has to be avoided? The talk will share the lessons learnt from nearly 20 years of coordinating a multi-disciplinary international doctoral training group. It will focus on pitfalls as well as on opportunities of multi-disciplinary international cooperation. It will give useful hints on what to consider beyond published papers if you want to integrate results from Health and Medicine, Society and Humanities, Business and Economics, Technology, and Psychology to solve a global problem through an interdisciplinary approach to Enhancing Quality of Life. The main thesis of this talk is that the soft skill development of the involved researchers will be an important success factor. It will give examples from a technic-based area – logistics – that faces similar challenges. The aim of the talk is to discuss the options for knowledge transfer.

Biography: Dr.-Ing. Ingrid Rügge holds the position of Managing Director at the International Graduate School for Dynamics in Logistics (IGS) at the University of Bremen. Her research interests lie in the domain of human-computer interaction, with a particular focus on mobile work environments and the application of wearable computing technologies in industrial and healthcare sectors. Dr. Rügge is actively involved in numerous international collaborations and projects, notably within the Erasmus+ framework, demonstrating a strong commitment to fostering global academic partnerships. Her responsibilities also encompass significant teaching and mentoring activities, including the supervision of a substantial number of doctoral candidates. Her contributions to internationalizing doctoral training have been recognized through prestigious awards.

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Conference Program

Day 1: Conference Schedule (June 12, 2025, GMT+7)

Master of Ceremonies (MC): LuLu Zou

Time	Room A	Room B	Room C
09:00 – 09:30	Opening Ceremony (Room A) Apicha Insuwan President of Payap University Wallapa Songprakun General Chair and Vice President of Payap University		
09:30 – 10:15	Keynote Session (Room A) Bernard T. Adeney-Risakotta <i>Rebirth and Death after Retirement</i>		
10:15 – 11:00	Keynote Session (Room A) Mei-Chih Hu <i>Forecasting Technological Convergence for Smart Long-Term Care Industry</i>		
11:00 – 11:15	Coffee Break		
11:15 – 12:15	Session A1: Business and Economics Session Chair: Warawut Ru- ankham PID 37 PID 94 PID 127 PID 138	Session B1: Health and Medi- cine Session Chair: Manisha R. Dhage PID 50 PID 55 PID 78	Session C1: So- ciety and Humani- ties Session Chair: Saber Alavi PID 32 PID 25 PID 57 PID 30

Time	Room A	Room B	Room C
		PID 100	PID 124
12:15 – 13:15	Lunch Break		
13:15 – 14:00	Keynote Session (Room A) Ingrid Rügge <i>Soft Skill Development for Multidisciplinary Cooperation</i>		
14:00 – 14:15	Coffee Break		
14:15 – 15:15	<p style="text-align: center;">Session A2: Business and Economics</p> <p style="text-align: center;">Session Chair: Dzakiyy Had- iyan Achyar</p> <p style="text-align: center;">PID 73 PID 82 PID 86 PID 112</p>	<p style="text-align: center;">Session B2: Psy- chology</p> <p style="text-align: center;">Session Chair: Piyatida Pi- anluprasidh</p> <p style="text-align: center;">PID 14 PID 23 PID 33 PID 72</p>	<p style="text-align: center;">Session C2: So- ciety and Humani- ties</p> <p style="text-align: center;">Session Chair: Sonporn Sirikan</p> <p style="text-align: center;">PID 15 PID 17 PID 34 PID 132</p>
15:15 – 16:15	<p style="text-align: center;">Session A3: Business and Economics</p> <p style="text-align: center;">Session Chair: Yi-Chun Lu</p> <p style="text-align: center;">PID 79 PID 89 PID 90</p>	<p style="text-align: center;">Session B3: Health and Medi- cine</p> <p style="text-align: center;">Session Chair: Jitendra M. Bakli- wal</p> <p style="text-align: center;">PID 59 PID 62</p>	<p style="text-align: center;">Session C3: Technology</p> <p style="text-align: center;">Session Chair: Witoon Prommee</p> <p style="text-align: center;">PID 110 PID 113 PID 131</p>

Time	Room A	Room B	Room C
	PID 96	PID 101 PID 119 PID 123	PID 134

Day 2: Conference Schedule (June 13, 2025, GMT+7)

Master of Ceremonies (MC): LuLu Zou

Time	Room A	Room B	Room C
09:00 – 09:45	Keynote Session (Room A) Dhanashree Ghare <i>Medication and Mental Health Care for Longevity</i>		
09:45 – 10:30	Keynote Session (Room A) Seung Hwan Kang <i>Smart Assistive Technologies for Longevity Lifestyles</i>		
10:30 – 10:45	Coffee Break		
10:45 – 11:45	Session A4: Technology Session Chair: Khukrit Osathanunkul PID 60 PID 71 PID 104 PID 126	Session B4: Health and Medi- cine Session Chair: Rathchataphol Chaikiattitham Pimpaka Panyoyai PID 31 PID 53 PID 56 PID 128	Session C4: Technology Session Chair: Thanyarat Jit- peera PID 26 PID 42 PID 44 PID 98

Time	Room A	Room B	Room C
11:45 – 12:45	<p>Session A5: Technology</p> <p>Session Chair: Hemlata Jadhav</p> <p>PID 61 PID 84 PID 102 PID 107</p>	<p>Session B5: Health and Medi- cine</p> <p>Session Chair: Suphanaree Kasemmala Pimpaka Panyoyai</p> <p>PID 9 PID 35 PID 105 PID 115</p>	<p>Session C5: Technology</p> <p>Session Chair: Harsh Namdev Bhor</p> <p>PID 54 PID 70 PID 75 PID 99 PID 108</p>
12:45 – 13:45	Lunch Break		
13:45 – 14:30	<p>Keynote Session (Room A)</p> <p>Yipei Liu <i>Towards A Structured Approach to Quality Ageing: Experience from China</i></p>		
14:30 – 14:45	Coffee Break		
14:45 – 15:45	<p>Session A6: Technology</p> <p>Session Chair: Kalpana Thakare</p> <p>PID 45 PID 74 PID 95 PID 106</p>	<p>Session B6: Tech- nology</p> <p>Session Chair: Smita Chaudhari</p> <p>PID 29 PID 76 PID 122 PID 130</p>	<p>Session C6: Technology</p> <p>Session Chair: Kingkan Pu- ansurin</p> <p>PID 52 PID 68 PID 77 PID 125 PID 129</p>

XVIII

Time	Room A	Room B	Room C
15:45 – 16:15	Closing Ceremony (Room A) Thank You Statement Next-Host Announcement Final Remarks		

*Meeting links for each room and session will be emailed to all authors and participants.

Each author will have 8–10 minutes to present their research paper. This time does not include the Q&A session, which will last 2–3 minutes.