

## **Call for Submission**

to the 2023 Conference on Gerontechnology, March 17 2023, Taiwan,  
*organized by* Institute of Geriatric Welfare Technology and Science, MacKay Medical  
College.

Please note all date/time below are in the UTC+8 time zone.

### **1. BACKGROUND**

Human society is facing two major changes in history: the unprecedented growth of the aging population and the rapid pace of technological development. Gerontechnology, a cross-disciplinary emerging technology field, has evolved in response to this demand. Professors Graafmans and Bouma (1993) of Eindhoven University of Technology in the Netherlands formally defined Gerontechnology as: "Gerontechnology includes the research and development of techniques and technological products, based on the knowledge of aging processes, for the benefit of a preferred living and working environment and adapted medical care for the elderly."(Graafmans & Bouma, 1993) It has been 31 years since the first World Congress of Gerontechnology in 1991, and the issue of aging is receiving much attention from governments around the world, and research in this field is growing in various academic and research institutions. The purpose of this conference is to echo the international trend and the Long-Term Care Policy 2.0 by the Taiwanese government's Health and Welfare Ministry, and to invite scholars and experts in the field of gerontechnology to come together to exchange their research and practical experience, and to promote the research culture and R&D level in Taiwan.

### **2. CATEGORIES**

#### **2.1 Aging and Intergenerational Innovation**

Issues on the application of technology to the psychological and social aspects of aging, issues on technology for intergenerational interaction and learning, and other innovative design issues related to aging and intergenerational learning.

#### **2.2 Limbs and Action Supporting Technology**

Assistive Technology, Biomechanics, Rehabilitation Engineering, Human Factors Engineering, Universal Design, Motion Science, Wearable Devices, Smart Aids, Medical Devices, Biomedical Systems, and other related topics.

#### **2.3 Communication and Information Interaction**

Information technology applied to the health and care of the older adults, including the development and design of software and hardware for audio-visual multimedia and audiovisual technology.

#### **2.4 Intelligent and Friendly Environment**

Intelligent environmental space, IoT applied to senior environmental design, and senior and dementia friendly environment design.

#### **2.5 Elderly Services and Management**

Application of technology in long-term care and service management.

#### **2.6 Other Related Fields**

### **3. OFFICIAL WEBSITE**

<https://sites.google.com/mmc.edu.tw/2023gerontechnology>

### **4. SUBMISSION GUIDELINES**

4.1 Except for Conference Section A1 which is in English, all other sections are in Chinese. Submitted presentation papers should be structured to include Abstract, Background and Purpose, Methodology, Results and Discussion, Conclusions, and References, and not more than 3 to 5 pages (A4-size) long.

4.2 Title of the paper should be set according to the theme and categories of the Conference. The submission should be in PDF format. For formatting and style please refer to Attachment 2. Deadline for submission is March 1, 2023. Submit online to <https://forms.gle/3Jk9L3JDuMnNxGfCA> . Fill in basic information and upload the PDF.

4.3 Review of conference paper

4.3.1 Submission is open from Sunday Jan 1, 2023 to Wednesday March 1, 2023 (23:59).

4.3.2 Notification of acceptance will be sent on Friday March 10, 2023.

4.3.3 If no result has been received by 17:00 on Friday March 10, 2023, please contact us ASAP. **Those whose submission is accepted please complete conference registration by Wed March 15, 2023.** Each accepted paper should have at least one author register for and present at the conference in order to receive official certificates for presentation, attendance, and submission acceptance. If conference registration is not completed by Sunday March 15, 2023, acceptance will be withdrawn and presentation qualification revoked.

4.3.4 Other notes

4.3.4.1 Only abstract of the submitted papers will be published. No full text will be made public.

4.3.4.2 All submissions should follow research ethics and guidelines.

4.3.4.3 Each submitted paper will be evaluated by 2 experts/scholars in the related field. The identity of reviewers remains confidential to all parties except the Organizer.

**5. PRESENTATION EVALUATION:** Section A1 is the International English Presentation Section which is excluded from Conference competition.

## **6. IMPORTANT DATES/INFO**

6.1 Conference Date: Friday March 17, 2023.

6.2 Location: International Conference Hall located in Research & Teaching Building #2, MacKay Medical College. (Shuttle available from MRT stations)

6.3 Organizer: Institute of Geriatric Welfare Technology and Science, MacKay Medical College.

6.4 Registration Open: From Wednesday Feb 15, 2023 to Wednesday Mar 15, 2023 (23:59).

6.5 How to Register: Please register online at <https://forms.gle/neM8QA44NfDA54T96> .

6.6 Fees: Free. In addition, an eco-friendly brief-style information-pack including conference program and stationary, along with snacks and meal boxes, will all be provided free of charge to each participant.

## **7. CONTACT INFORMATION**

Organizer: Institute of Geriatric Welfare Technology and Science, MacKay Medical College

Address: 46 Zhong-Zheng Road Section 3, Sanzhi District, New Taipei City, Taiwan (R.O.C.).

LINE: @714gfjvb

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Email: [P00771-006@mmc.edu.tw](mailto:P00771-006@mmc.edu.tw)

Contact Person: Miss Deng, Xin-Yi

# **Title of Paper to be submitted to the Conference on Gerontechnology (Arial, bold, 18pt, centered)**

Author 1's name, affiliation, Email (Arial, 10pt, centered)

Author 2's name, affiliation, Email

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## **ABSTRACT (Arial, bold, 16pt, centered)**

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Keywords: gerontechnology, long-term care, geriatrics. (Arial, 11pt, justified)

## **1. BACKGROUND & PURPOSE (Heading 1, Arial, bold, 16pt, left-aligned)**

Overall background and purpose of your research. Overall background and purpose of your research. Overall background and purpose of your research. (Arial, 12pt, justified)

### **1.1 Research Background and Literature Review (Heading 2, Arial, bold, 14pt, left-aligned)**

In this section, please review the literature, refer to similar studies by others, briefly describe the background of these studies, and make graphs/charts to compare the strengths and weaknesses of each study if needed. For example, It has been 31 years since the first World Congress of Gerontechnology in 1991, and the issue of aging is receiving much attention from governments around the world (Bouma et al., 2007). Use proper citations where necessary, in IEEE or APA 7<sup>th</sup> format. (Arial, 12pt, justified)

### **1.2 Research Purpose and Importance**

Why do you want to innovate this research and present it at this conference? In this section, you can clearly describe the purpose of your research, what you

are trying to achieve or how you want to apply it, and how it is important to apply your research to elderly care recipients or caregivers, to improve the environments for the elderly, etc. (Arial, 12pt, justified)

## 2. METHODOLOGY

Your research may be based on a particular system, platform software or hardware, or a combination of tools, etc. Please describe in this section your research system and framework in a comprehensive manner. Also please describe your research design. (Arial, 12pt, justified)

### 2.1 Targets and Tools

Please describe how you've conducted recruiting. Any tools or instruments used in your research, such as analysis software, control hardware, etc., should be clearly described to the reader in this section. These software or hardware or instrumentation have their own specifications, which you can describe for the reader to know, and the reader can learn from your experience with the system. (Arial, 12pt, justified)

### 2.2 Framework or Strategy

There must be a systematic approach or structure to your independent creative research. Please describe the structure of your research in detail. You can make good use of graphics, including illustrative diagrams or flowcharts, etc. Your graphics should be original and should not be taken directly from others, as this would violate intellectual property rights and academic ethics. It is important that you create your own structure, such as a flowchart, because a logical and clear structure will allow the reader to understand your research quickly and clearly.

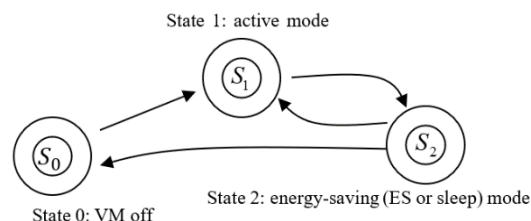


Figure 1. Research Strategy Framework Diagram (Arial, 11pt, centered)

## 3. ANALYSIS AND RESULTS

Please describe the preliminary results of your research in a

comprehensive manner, and also explore the statistics including quantitative and qualitative analysis where appropriate. (Arial, 12pt, justified)

### 3.1 Quantitative or Qualitative Analysis

In this section you can experiment or validate your preliminary results, either through laboratory equipment analysis or on-site validation at an institution. Both quantitative analysis and qualitative statistical analysis are important and necessary to present to the reader so that the reader knows what level of contribution your research has made. Quantitative analysis can be conducted with appropriate scientific tools and software platform services, while qualitative analysis can be conducted through questionnaires, interviews, etc., followed by statistical analysis. All quantitative and qualitative results should be presented in tables and statistical graphs. The table format can be referred to the following example:

Table 1. Time vs Quality Analysis (Arial, 11pt, centered)

<i>V</i>	<i>Time=4</i>	<i>Time=8</i>	<i>Time=12</i>	<i>Time=16</i>
<i>qos=60</i>	53	80	67	53
<i>qos=70</i>	54	81	68	54
<i>qos=80</i>	55	82	69	55

### 3.2 Results and Discussion

This section is probably the most important section because the result of your research can be described in detail here for the reader to understand. An independent innovation is an author's independent research that is not plagiarized. It may be a completely new strategy or a similar approach to others, but in any case, it cannot be a plagiarized research paper, otherwise it is against academic ethics. You can try to compare your own research with that of others, as there are always advantages and disadvantages to various approaches. You can try to emphasize the merits and contributions of the initial results of your research, so that readers can understand your contribution and may refer to or cite your paper later. (Arial, 12pt, justified)

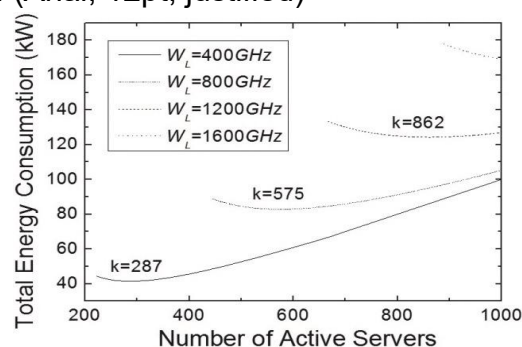


Figure 2. Research Results Compared to Others (Arial, 11pt, centered)

## 4. CONCLUSIONS

Please summarize here the conclusions of your paper, such as your research contribution, merits, efficiency, etc. You may also describe the potential of future development of your research. Please be reminded of the following important dates: (1) Submission is open from Sunday Jan 1, 2023 to Wednesday March 1, 2023 (23:59). (2) Submission results will be notified by email on Friday March 10, 2023. (3) If you have not received any result notification by 17:00 Friday March 10, 2023, please contact us ASAP. (4) Those whose submission is accepted must complete conference registration by Wed March 15, 2023. Each accepted paper should have at least one author register for and present at the conference in order to receive official certificates for presentation, attendance, and submission acceptance. If conference registration is not completed by Wed March 15, 2023, acceptance will be withdrawn and presentation qualification revoked. (Arial, 12pt, justified)

## REFERENCES

Bouma, H., Fozard, J. L., Bouwhuis, D. G., & Taipale, V. (2007). Gerontechnology in perspective. *Gerontechnology*, 6, 190-216.

<https://doi.org/10.4017/gt.2007.06.04.003.00>

Graafmans, J. A. M., & Bouma, H. (1993). Gerontechnology®, Fitting Task and Environment to the Elderly. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 37(2), 182-186.

<https://doi.org/10.1177/154193129303700205>

(Please use reference citation software, in IEEE or APA 7<sup>th</sup> format. Arial 11pt)