

EXTENDED ABSTRACT

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

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FOREWORD BY THE PROJECT DIRECTOR

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INNOVATION, INVENTION, AND DESIGN

FOREWORD BY THE RECTOR OF UITM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Ummi Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY, INNOVATION AND DIGITAL COMMUNICATIONS



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

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The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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i.	

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	FAIQAH HAFIDZAH BINTI HALIM
	NORSHAHIDATUL HASANA BINTI ISHAK
	HAZRATI ZAINI
	KHAIRUL NURMAZIANNA ISMAIL
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PROGRAM BOOK, ABSTRACT &	DR MAIMUNAH JOHARI
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	PN NOR HALAWAH AHMAD
	PN AZIRA RAHIM
	NORLINDA TENDOT ABU BAKAR
	AFZAN SHAHILLA AMIR HAMZAH
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	MASLIZA BINTI MOHD RAZALI
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

- Encourage and instil passion towards inventing and innovating among UiTM
 Cawangan Melaka staff, students and academicians of local and international higher education institutions;
- 2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
- 3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
- 4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
- 5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'

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I-M-A-N Approach:

A Creative Method to Teach Autistic Children Verbal Communication

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Abstract

Traditional teaching methods offer a structured curriculum that assists neurotypical students in staying focused. However, traditional teaching methods are not suitable for autistic children due to the lack of flexibility and creativity required to effectively engage autistic children in verbal communication, resulting in limited progress and frustration for both parents and children. Due to the complex condition of Autism Spectrum Disorder (ASD), these children can pose an overpowering challenge for educators. Therefore, integrating two theories, Cohen's Theory of Mindblindness and Reid's Perceptual Learning Styles, the first researcher has created a simple flexible teaching method for her autistic son. By applying the I-M-A-N approach which has promoted game and playful learning for the past 13 years, the researcher instills excitement to emphasize learning verbal communication via the stimulation of sensory. It works with her autistic child and she aspires to share with other parents who would like to guide their autistic children to communicate. The method introduces a simple framework to assist parents in designing and conducting simple and short activities. By following the four steps that use household items with personalized instruction, parents can create an interactive learning environment tailored to the needs of autistic children. By executing this method, parents can reduce the costs of therapies, provide stimulation, improve parent/child relationships, and enrich their children's learning experiences. By addressing the unique needs of autistic children, this approach promotes diversity and enables individuals with ASD to reach their full potential, fostering better integration into society and improving well-being. The implications of this research will benefit individuals with ASD, the parents of ASD children, teachers, health practitioners, speech therapists, and policymakers in Malaysia and other countries in developing policies related to education, health, and ASD issues.

Keywords: Autism Spectrum Disorder, Game and playful-based learning, Perceptual learning style, Theory of Mindblindness, and Verbal Communication

1. INTRODUCTION

Autism Spectrum Disorder (ASD) exhibits challenges to verbal communication, hindering social interaction and development. These special needs children are often struggling to speak and interact with their parents, siblings, and people around them. These children with autism exhibit impaired social relatedness due to their basic biological challenges—such as sensory disorder and this prevents their ability to engage in traditional classrooms which are full of interactive experiences. Traditional teaching methods too often struggle to meet the mixed needs of these children. Therefore, parents seek help from consultants and therapists to teach their children to communicate. However, these experts are equipped with special teaching strategies, knowledge, and skills that are very costly.

Therefore, the researcher introduces a novel teaching approach that acts as the conceptual framework for this study. In particular, this teaching approach combines game-based and playful learning, household items, and personalized instruction to create an interactive learning environment tailored to the needs of autistic children. This approach displays a simple chart for parents to refer to and to design a simple activity with their child. The conceptual framework diagram below shows the steps for parents to conduct a simple teaching session by using the I-M-A-N approach:

Diagram 1: Conceptual Framework of I-M-A-N Approach



2. OBJECTIVE

The primary objective is to empower parents and their autistic children to develop speaking activities and improve their verbal communication skills. By conducting simple and repetitive activities, parents and their children can build positive relationships thereby enhancing their overall quality of life and facilitating meaningful social interactions.

3. NOVELTY & INVENTIVENESS

This innovative I-M-A-N approach integrates two theories: Theory of Mind-blindness and Perceptual Learning Style. The former claims that individuals with autism struggle to perceive the cognitive and emotional states of others, delaying their ability to predict behavior and understand others' mental states. By stimulating sensory input, this approach assists in recognizing social cues and regulating responses during activities. It also offers various options for parents to use the materials and choose language expressions. Eventually, it caters to a tailored situation to verbal communication hurdles in autistic children.

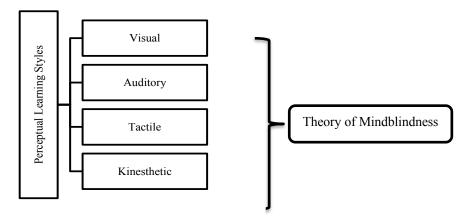


Fig.1 Reid's Perceptual Learning Styles and Cohen's Theory of Mindblindness

4. PRACTICALITY & USEFULNESS

By introducing the method, parents can plan, conduct, and guide their autistic child at home and in outdoor settings practically. Before this method, the researcher was struggling to plan and teach her son to speak interactively. She wasted her time experimenting with objectives and materials. However, this creative teaching approach can help parents to enhance the interaction and the teaching and learning experiences with their children. That can promote diversity and empower individuals with ASD to achieve their full potential. Enhanced verbal communication skills facilitate better integration into society and improve overall well-being.



Pic. 1 Activities carried out by the researcher with her autistic son

5. CONCLUSION

The researcher's son started with a speech delay and he was being repetitive at the age of 5 years old. He could utter very minimal words in a conversation and hardly maintain any interaction with others. When the researcher started applying this method, the preliminary findings suggested that the implementation of this innovative teaching approach demonstrates significant improvements in verbal communication skills for an autistic child, fostering confidence, interaction, engagement, and autonomy in his interactions with others.

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