



PROCEEDINGS

NEGOTIATING PRACTICES OF EARLY CHILDHOOD EDUCATION

THE 2014 INTERNATIONAL CONFERENCE
OF EARLY CHILDHOOD EDUCATION

Editor: **Vina Adriany**



PROGRAM STUDI PGPAUD DEPARTMENT PEDAGOGIK
FAKULTAS ILMU PENDIDIKAN
UNIVERSITAS PENDIDIKAN INDONESIA

PROCEEDINGS

NEGOTIATING PRACTICES OF EARLY CHILDHOOD EDUCATION

THE 2014 INTERNATIONAL CONFERENCE
OF EARLY CHILDHOOD EDUCATION

Editor: **Vina Adriany**



PROGRAM STUDI PGPAUD DEPARTMENT PEDAGOGIK
FAKULTAS ILMU PENDIDIKAN
UNIVERSITAS PENDIDIKAN INDONESIA

PROCEEDINGS
NEGOTIATING PRACTICES OF EARLY CHILDHOOD EDUCATION
The 2014 International Conference of Early Childhood Education

ISBN : 978-602-99635-1-9

Editor : Vina Adriany
Desain sampul : Endang Dedih
Tata letak : Yusman

Penerbit

Program Studi PG PAUG Jurusan Pedagogik
Fakultas Ilmu Pendidikan
Universitas Pendidikan Indonesia

WELCOMING NOTES

I would like to welcome all delegates and invited guests at the 2014 International Conference of Early Childhood Education in the Indonesia University of Education (UPI), Bandung, West Java, Indonesia.

This conference is held as part of the celebration of UPI's 60th Dies Natalis. The theme chosen for our conference is Negotiating Practices of Early Childhood Education. We are aware that nowadays there are different practices of early childhood education that compliment each other in one way but it may also contradict in another way. Our hope is this conference will provide a space where those different practices can communicate with one another.

This conference can only be possible with assistances from so many institutions and individuals. We are grateful for the support provided by Rector of UPI, Dean of Faculty of Education and his staffs, School of Postgraduate Studies, as well as hard work of staffs in our program, Early Childhood Education Teacher Education Program (PG-PAUD) and our students.

We also would like to extend our deepest gratitude to all our keynote speakers from Lancaster University, UK, Gothenburg University, Sweden, Flinders University Australia, National Dong Hwa University, Taiwan, University of Malaya, Malaysia, as well as from Indonesia University of Education. We also thank our presenters and participants from various places in Indonesia as well as from oversea like Malaysia, Australia and Oman.

We wish you a wonderful conference.

Head of PGPAUD-Program

Dr. Ocih Setiasih, M.Pd.

FOREWORD

This proceeding is based on papers presented by participants in our international conference of early childhood education (ECE). The theme chosen for this year is “Negotiating Practices of Early Childhood Education”. The theme is based on understanding that we live in a hybrid world where different values, ideologies, practice including those of in early childhood education interact; compete yet they also complete one another.

Papers presented in our conference reflect this theme. This proceeding is commenced by papers and extended abstract from our keynote speakers. The topic ranges from gender issues in ECE, negotiating concept of care in ECE, a cross-cultural perspective on parenting and play. The diverse topic presented in the keynote speech illuminates the richness of practices and theories of ECE.

The proceeding is divided into 13 themes. There are Philosophical Issues in Early Childhood Education; Curriculum and Assessment of Early Childhood Education; Quality and Human Investment in Early Childhood Education; Information, Communication and Technology (ICT) in Early Childhood Education; Parenting; Gender Issues in ECE; Teachers Training in Early Childhood Education; Language Development and Literacy in Early Childhood Education; Children’s Social and Emotional Development; Children’s Cognitive Development; Creativity in Early Childhood Education; Multiculturalism in early childhood education; and Primary Education (Grade 1-3). Each theme is hoped to stimulate debates and discussion in ECE. All these themes take into account new trend and concept that affects the way childhood is situated and constructed.

The papers presented in the proceeding also reflect different epistemological and philosophical framework that shape each author’s writing. It is not our aim to demonstrate which framework is the most suitable one, as we do not one to make one particular theory as the only truth in ECE. Therefore, we welcomed existing theories in ECE while at the same we attempted to go beyond current theories as well as practices and embrace new perspectives in ECE. It is our hope that each theory can help us understand children, childhood and ECE better.

Editor

Vina Adriany, M.Ed., Ph.D

OUTLINE

Welcoming Notes - i

Foreword - iii

Contents - v

a. Keynote Speech

Princesses with beards: gender flexible identities in early childhood pedagogy-

Jo Warin xv

Nordic Light On Gender Relations In Early Childhood Education -

Anette Hellman xvi

Nordic Light on Gender Relations in Early Childhood Education- Anette Hellman

Feeling better? Deploying emotional capital in early childhood practice. Loving children is not enough - Yarrow Andrew xviii

A cross-cultural study of parent involvement: Mother, father, and child

perspectives- Hui-Hua Chen xxviii

Caregiver - Child Bonding through Child- centered Play: A Qualitative Case Study Using Filial Play Therapy with Shelter Home Pre-Schoolers and their Caregiver -

Diana – Lea Baranovich xl

b. Philosophical Issues in Early Childhood Education

A Children's Education By Hj. Rahmah El Yunusiyah - Widia Winata 1

Eudaimonic Wellbeing: Creating a Learning Process in Early Childhood Through Exciting Perspective Positive Psychology of Self-Actualization as an Effort to Early Childhood- Idat Muqodas 7

Ethnopedagogic: "New Paradigm" Developed The Wisdom for Early Childhood Educator Candidates to Meet The "Gold Generation" 2045- Herdi, Sunaryo

Kartadinata & Agus Taufiq 13

Character Building Early Childhood to Be Gold Generation of Indonesia- Endang

Pudjiastuti & Niken Cahyorinartri 14

c. Curriculum and Assessment of Early Childhood Education

Contextual Teaching Learning in Environmental Education for Kindergarten -

Heny Djoehaeni 23

Schooling Organization Based on Socio-Cultural in Ra Al-Amanah Buah Batu Kota Bandung - Djem Bangun Mulya 32

Improving Child Initiated Learning Within GagasCeria Curriculum –

Ami Aminah 39

	The Development of Developmental and Psychoeducational Assesment for Preschool - Fitri Ariyanti Abidin & Fitriani Yustikasari Lubis	45
d.	Quality and Human Investment in Early Childhood Education	
	Inside the Childcare Center: How to ensure quality childcare practices – Zahyah Hanafi & Siti Noor Ismail	51
	Using the Management of Quality Assurance to Improve Early Childhood Education: Study of Quality Assurance Practices in Central Java and West Nusa Tenggara, Indonesia – YayanTrisakti	62
	Management of Nonformal-Early Childhood Education through Forum for Family Empowerment in Cintarasa Village - Iip Saripah	73
	The Effect of Pre-School Education on Academic Achievement in Indonesia - Mohamad Fahmi & Putri Grace Ninibeth Jewelery S	78
e.	Information, Communication and Technology (ICT) in Early Childhood Education	
	Robotics in Early Childhood Development - Yudianto Sujana	93
	Implementing Instructional System Design Between Taiwan and Indonesia Via Online Teaching - Yeni Rachmawati, Cheng-Hsiung Lu, Hui-Hua Chen, Ocih Setiasih, & Leli Kurniawati	99
	Effect of utilization CD interactive media in science learning motivation For third grades elementary school (Experimental study in Palmerah 15 state primary school, West Jakarta Academic Year 2010/2011) - Mohamad Syarif Sumantri & Rina Kristanti	111
	Urgency Computer Games for Stimulation the Early Childhood Development - Syahrul Ismet	118
	Contents of Advertising in Children Television Shows - Nurist Surayya Ulfa	125
	Gadget: What And How? Indonesian Children’s Perspectives on Gadgets – Endah Silawati & Hj. Setyaningsih Rachmania	133
	Application Software Development Statistics Processing With VBA and Instructional Media Branching Linear - Rita Mariyana & Asep Deni Gustiana	138
f.	Parenting	
	Parenting Perception on Emping Melinjo’s Workers to The 2-To-3-Year-Old Children In Batang Regency - Yubaedi Siron & Nurul Shofiatin Zuhro	149
	Parental Mediation on Television’s Viewing Behavior – Sri Widowati Herieningsih.	155

The Psychological Dynamics of Parents of Children with Special Needs – Putu Rahayu Ujjianti	163
Parental Involvement for Early Childhood Education in Kindergarten – Mukti Amini	172
Role of Parents Involvement in Early Childhood Education Program Overview From Reggio Emilia Approach at Yogyakarta - Avanti Vera Risti P.	178
g. Gender Issues in ECE	
Gender Power Relations in Indonesia Early Childhood Education: An Analysis of Textbooks for Teachers - Vina Adriany	185
Neoliberal Early Childhood Education Policy and Women’s Volunteerism - Hani Yulindrasari	197
Gender Responsive Early Childhood Education in Islamic Perspective – Erhamwilda	206
Application Of Gender Responsive Learning in Kindergarten – Anayanti Rahmawati	214
h. Teachers Training in Early Childhood Education	
Strategy of Expanding Early Childhood Education Teacher’s Creativity in Learning- Titin Faridatun Nisa & Yulias Wulani Fajar	221
Discovery Pattern Learning of Distance Higher Education Student Through Utilization Online Independent Exercise - Sri Tatminingsih & Trini Prastati	226
Counseling Model-Based Collaborative Environment Social Culture Student Pgpaud Fkip Uninus Bandung - Euis Karwati	234
Developing a professional culture in the preschool teachers: a perspective of GagasCeria Preschool - Delila Saskia P	239
Development Of Teachers Training Program In Character Based Learning for Early Childhood Education - Ocih Setiasih, Rita Mariyana, & Ali Nugraha.....	246
Implementation of Learning Model – Collaborative Counseling Based on Tutor Training In Rancakalong, Sumedang - N. Dede Kohoerioah	253
Career Guidance Model in Early Childhood Teacher Training Program Fkip Universitas Islam Nusantara (Uninus) Bandung - Ayi Najmul Hidayat	260
Critical Policy Study for Early Childhood Education Teachers Training Profession - Rudiyanto, Rita Mariyana, Euis Kurniati, & Ali Nugraha, M.P	264

i. Language Development and Literacy in Early Childhood Education	
The Influence of Learning by Language Experience Approach Toward Speaking And Early Reading Abilities in Child (Quasi Experiment Study Toward Children Of Group B, Kindergarden Plus Quran Al-Mansyuriyyah, Bandung) – Susan Maulani	275
Effectiveness of The Use of Images on Media Storytelling Ability of Kindergarten Children – Rakimahwati	286
Communication Ability of Early Age Child With Emotional Disorder in East Nusa Tenggara - Oktovianus Halla, Beatriks Novianti, Bunga Indra, & Yohanes Kiling	290
Improvement of Early Literacy Ability Through Educational Game Tools (An Action Research Conducted at The Kindergarten of Padu Al Kautsar, in The District of Serang, West Java In 2013) - Irma Yuliantina	295
Linguistic Intelligence Through Improved Method Storytelling, Action Research in Kindergarten Siger Emas, Age 4-5 Year Bandar Lampung- Gustiana	303
The effectiveness of Singing songs and Action in introducing English to children in Kindergarten - Elise Muryanti	317
Improving Students' English Vocabulary Mastery Through The Use Of Multimedia at Kidergarten Fantasia New Kebayoran South Jakarta - Ratna Sari Dewi	322
The Influence of Total Physical Response on Children's Listening Skill and Arabic Vocabulary Mastery (Quasi-Experimental Study on Group B Kindergarten RA Al-Muqoddasah Jagabaya Banjaran Bandung Academic. Instead we attempt to show how each theory can help us to understand children's development better Year 2010/2011) - Dinar Nur Inten	326
The Development of Children's Understanding on Rhythmic Through Singing Activities With <i>Keyboard</i> Accompaniment in Kindergarten - Indra Yeni	335
THE WORLD ACCORDING TO CHILDREN WRITERS (A Cultural Analysis on the Kecil-Kecil Punya Karya series: Indonesian Children Books Written by Children) - Rd. Safrina Noorman, Lina Meilinawati Rahayu, Nia Nafisah, Ernie Diahkusumaning, & Ayu Imperiani	344
j. Children's Social and Emotional Development	
Guidance With Behaviour Therapy to Improve Social of Children With Attention Deficit- Hyperactivity DISORDER (ADHD) - Nur Faizah Romadona	355
Establishing Politeness of Wisdom Maxim Through Role Play and Puppets (Action Research in Kindergarten Aisyiyah 08 Group B At Cisalak Depok School Year 2012/2013)- Nenny Mahyuddin	362

Traditional Sundanese Culture-Based Games as A Means of Stimulating The Development of Early Childhood (Ethnographic Study in The Village of Jatitujuh, Majalengka Jawa Barat, 2011) - Malpaleni Satriana	369
The Utilization of Outdoor Environment Using Scientific Method and the Development of Kindergarten Students' Natural Intelligence - Lely Halimah	379
The Role of Children Buddhist Songs in Cultivating Moral Values in Buddhist Sunday School - Latifah,A. Budiyanto' & Metta Puspita Dewi	392
Psychoeducational Program to Increase Parent Awareness About The Benefits of Storytelling For Optimization The Development of Preschool Children – Laila Qodariah, Poeti Joefiani, & Anggit Sukma	404
Social Life Description of Early Age Child With Mental Retardation in East Nusa Tenggara - Kresensia Wea Aga Ngawas, Beatriks Novianti, Bunga Indra, &Yohanes Kiling	423
Negotiating The Value of Leadership in Learning Model of Child-Centered – Fitri Sukma Irianti	429
The Implementation of Playing Based Learning Model for Developing Character in Early Childhood - Euis Kurniati	443
Thematic Analysis of The Simbolic and Imaginary Play - Dewi Retno Suminar	448
Guidance Services through Storytelling Techniques for Developing Character of Early Childhood - Asep Rohiman Lesmana & Idat Muqodas	457
Implementing traditional games “Kaulinan Barudak” to improve student’s character value (Quasi-experimental research in kindergarten Santa Ursula and state guiding kindergarten Citarip Bandung Academic year 2012-2013) - Ernawulan Syaodih & H. Mubiar Agustin	467
Enhancing Social Emotional Competence of Kindergarten Children Through Social Play Model - Cucu Eliyawati	473
Developing and Development Early Childhood: An Analysis Toward The Change of Limitation on Public Space In Housing Around of The City - Lucy Yosita	481
Social Competence Profile of Child Kindergarten in Sukasari Bandung – Aan Listiana	494
The Influnces of Storytelling Methode and Parenting Style to The Children’s Emotional Intellegence (Experimental Study on The Kindergarten Grade B Al-Hidayah and Daarul Qur’an School South Semarang in Academic Year 2012/2013) - Mila Karmila	502

	Play Therapy: Effects as Efforts to Reduce Anxiety in Children Preschool Hospitalization - Mardiani Bebasar	513
k.	Children's cognitive development	
	The Study of Educational Toys (Ape) Based Multiple Intelligences At Tk-Kb Pedagogia Fip UNY - Nelva Rolina	521
	Logical Thinking Ability Children's Stimulation of "Kling-Kling Byok" Games At Ra Masyithoh I Batusari - Maria Denok Bektigustiningrum	530
	Increasing The Ability of Knowing Numbers Through Playing Cards Numbers (Action Research In Kindergarten Nurul Fallah, Duri Riau, 2014 - Dwi Istati Rahayu, Baik Nilawati Astini, Moh. Irawan Zain	540
	The Influence of Educative Play Tool Toward Multiple Intelligence Of Early Childhood (Quasi Experiment Study Toward Children Of Group B, Tk Labschool Upi And Tk Tunas Karya, Subang) - Asep Deni Gustiana	547
	Increasing The Ability of Knowing Numbers Through Playing Cards Numbers (Action Research in Kindergarten Nurul Fallah, Duri Riau, 2014) - Elia Delfi	553
l.	Creativity in Early Childhood Education	
	The Development of Dance Learning Model Based on Malay Culture in Improving The Creativity of Young Learners – Nurlita	563
	The Role of Early Childhood Educators in Developing Children Creativity at Ecd Institutions – Nasriah	570
	Influence of Project Method Toward Increasing of Children's Creativity of 5-6 Years in Labor Kinder Garden - Devi Risma & Yeni Solfiah	577
	Scribbling as a Manifestation of Children Creativity - Ajeng Ayu Widiastuti	584
m.	Multiculturalism in early childhood education	
	Multicultural Based Learning For Children Education Early Age - Serli Marlina	593
	The Application Of Mediation Process in Resolving Conflict in ECE Students - Sesilia Monika & Agustina	600
	The Role of Living Values Education Approach in Assisting Teachers to Build Positive Values on Children of Early Ages - Putu Rahayu Ujianti	605
n.	Primary Education (Grade 1-3)	
	Brain Gym Method In Improving Students' Listening Skill – Susilowati	619

Application of Vct (Value Clarification Tecnique) Learning Model Through The Pilot Method on Civics Study to Increase Intelligence Effective Low Grade Students (Experiments in Class 1 International Green School Sumedang) – Ryan Dwi Puspita	628
Self-Training Learning Model to Improve Storytelling Skill of Pgsd Students in Teaching English in Elementary School - Charlotte Ambat Harun & Winti Ananthia	634
The Effect of Learning Techniques and Cognitive Learning Styles About Results Learning of Social Sciences (Experiment Studies in The Grade IV Elementary School of Government Parongpong West Bandung) - Budiansyah	649
The Influence Self-Academic Concept and Math Study Attitude Toward Subject Math With Math Outcomes of Students Third Grade Elementary School in East Jakarta - Yeni Solfiah.....	657
Improving Children’ Fine Motoric Skill Thruogh Contructive Play - Nirwana.....	667

ROBOTICS IN EARLY CHILDHOOD DEVELOPMENT

Yudianto Sujana

Program Studi PG-PAUD, Universitas Sebelas Maret, Surakarta

Email: yudianto.sujana@gmail.com

Abstract: This article presents the robotics technology and the benefits on early childhood development. Robotics technology can help children to think creatively and systematically, learn to work together, problem solving and improve fine motor skills. The use of robotics in early childhood development is also very suitable to constructivism theory which states that learning is to build knowledge of the self. The robot that used is Huna robotic education kit that is suitable for children because it can be assembled into a variety of shapes and are made of materials that are safe for children. This article also describes the steps in introducing robotics technology to early childhood.

Keywords: robotics, early childhood development, educational robotics kit

Introduction

Robotic technology is one of the very rapid development of technology, including in Indonesia. For common people the robot is sensed as a machine that is made up of metals and shaped like a human or animal that can move and do activities such as living creatures. This is reasonable due to the lack of education about robots in Indonesia, the robot knows only through robot-themed films in the form of humans or animals. The robot itself has long been used in industry to increase productivity of work. Many jobs are less suitable if done by humans as a job that needs a high level of accuracy and high risk jobs can be replaced by robots.

The word "robot" comes from the Czech language "robota" meaning workers. The word robot was first used in a play called Rossum's Universal Robots in 1921 to refer to a machine that can do the work of humans automatically. While the definition of a robot according to the International Organization for Standardization is "an automatically controlled, reprogrammable, multipurpose, manipulator programmable in three or more axes, the which may be either fixed in place or mobile for use in industrial automation applications." (ISO, 2012).

The use of robots today not only limited to the needs of work, but the robot can also be used as a medium of learning, which is called the educational robot. As the name implies, educational robot is a robot which is used as a medium of learning, because through educational robots we can learn a variety of disciplines such as mathematics, science, ICT and others. Educational robot can be assembled into a variety of shapes and can be programmed to perform a variety of movements and work, so that it can increase creativity. Various types of educational robots can be met in the market such as Roborobo, NXT, Lego, Fishertecnik, i-Robo, Robo Kai, Polulu, and Huna Robo.

The use of educational robot as a learning medium can be initiated at an early age. In early childhood, educational robot utilized as a means to improve aspects of child development such as cognitive, fine motor, social, emotional and art. One type of robot that is suitable for use in early childhood is Huna Robo. Huna Robo parts have bright colors so it is appealing to children and are made of materials that are safe for children. Moreover Huna Robo also has CE certification (European) and KC (Korea) so the safety is assured.