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


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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.
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 ÉCE, 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 Yunusiyyah - 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 Cahyarinatri ............................................................. 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 Assessment 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 – Yayan Trisakti ............................................................. 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 Jewelry 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 Setaisih,
& 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 Ujiandi .................................................................................................................. 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, Kindergarten 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 Kindergarten 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 Keyboard 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 Diyahkusumaning, & 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 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 Symbolic 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 Intelelgence (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 Batarsari - Maria Denok Bekti Agustiningrum ......................... 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 Lkschool 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 Ujiangti ...................... 605

n. Primary Education (Grade 1-3)
Brain Gym Method In Improving Students’ Listening Skill – Susilowati ............. 619
Application of Vct (Value Clarification Technique) 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 Constructive Play - Nirwana..... 667
ROBOTICS IN EARLY CHILDHOOD DEVELOPMENT

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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.