

Designing for Children with focus on 'Play and Learn'

28th - 30th, January 2021

IDC School of Design, IIT Bombay, Mumbai, India



Speaker Presentations:

The following are the abstracts accepted for online presentation during the Designing for Children Mumbai 2020 international conference with focus on 'Play and Learn': **28th - 30th**, **January 2021**, organised by the Industrial Design Centre (IDC), IIT Bombay.

ISBN 978-81-931260-8-0

This Publication is licensed under

Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. (http://creativecommons.org/licenses/by-nc-sa/4.0/)





Speakers:

Assessing playfulness of a toy play interaction: A research with differently abled children with communication challenges

Exploring the semantic way of teaching English language to the children of Indian vernacular medium schools

Design of an Icon-driven Augmentative and Assisted Communication System for Children experiencing Difficulty with Speech and Language

Dr. Ajanta Sen, Director, Solar Project, Mumbai, India and *Prof. Ravi Poovaiah,* IDC School of Design IIT Bombay

Board games and education Transitions & Transformations

Amit Deshmukh and Dr. Nachiket Thakur, MIT Institute of design, MIT ADT University, India...... [2] (Full_Final-Submissions/papers/Amit Deshmukh/Amit-Deshmukh-Board-games-and-education-Transitions-and-Transformations.pdf)

Plezmo: Education platform for children to †Learn through play

Anand Palsodkar, Elephant Design Pvt Ltd, India........... [1] (Full_Final-Submissions/papers/Anand

Palsodkar/Anand-Palsodkar-Plezmo-Education-platform-for-children-to-'Learn-through-play'.pdf)

Design of symbolic science characters: a visual design exercise with children Anisha Malhotra Dalvi, Adithi Muralidhar and Sugra Chunawala,

Homi Bhabha Centre for Science Education, India. [a] (Full_Final-Submissions/papers/Anisha Malhotra

Dalvi/Anisha-Malhotra-Dalvi-Design-of-symbolic-science-characters-a-visual-design-exercise-withchildren.pdf)

The CLIx Open Story Tool: A World of Interaction

Submissions/papers/Anusha Ramanathan/Anusha-Ramanathan-The-CLIx-Open-Story-Tool-A-World-of-Interaction.pdf)

Designing an experiential multi-perspective lens to storytelling

Jain/Apoorva-Jain-Designing-an-experiential-multi-perspective-lens-to-storytelling.pdf)

Factors of Design for Child Carriers between 6-18 months under the Ergonomics for the Elderly Ariya Atthawuttikul, Rajamangala University of Technology Tawan-ok(Uthenthawai Campus),Thailand. 📆 (Full_Final-Submissions/papers/Dr Ariya Atthawuttikul/Dr-Ariya-Atthawuttikul-Factors-of-Design-for-Child-Carriers-between-6-18-months-under-the-Ergonomics-for-the-Elderly.pdf)

DESIGNING FOR CHILDREN THROUGH PLAY & LEARN _Adapting to a Digital Future (Full Final-Submissions/papers/Avik Roy/Avik-Roy-Adapting-to-a-Digital-Future.pdf)

Investigating Six Bricks as an effective and affordable design for early skill development of communication through play

Binal Kamdar and Aastha Patel, TeachSTEAM, India............. [5] (Full_Final-Submissions/papers/Binal Kamdar/Binal-Kamdar-Investigating-Six-Bricks-as-an-effective-and-affordable-design-for-early-skilldevelopment-of-communication-through-play.pdf)

Design considerations for designing of Spatial-Number Sense manipulatives

Surender/Ekta-Surender-Design-considerations-for-designing-of-Spatial-Number-Sense-manipulatives.pdf)

Farm School Lab. Design method for sustainable space for children school learning strategies. Case of form finding in laboratory aquaponic system inspire by cymatic movement of water.

Elvert Duran Vivanco, Jose Luis emndez, Ripper. Joao, Victor Azevedo Alice and Alves Ribeiro, Pontificia Duran Vivanco/Elvert-Duran-Vivanco-Farm-School-Lab-Design-method-for-sustainable-space-for-children-schoollearning-strategies.pdf)

Development of a robot for emotional support of children during walking rehabilitation

(Full Final-Submissions/papers/Jaime Alvarez/J Alvarez E Hara K Adachi Y agawa Development of a robot for emotional support of children during walking rehabilitation.pdf)

Human Centred Design Approach in Development of Educational Toy: A case study of Alphabets Learning Submissions/papers/Gaurav Vaidya/Gaurav-Vaidya-Human-Centred-Design-Approach-in-Development-of-Educational-Toy-A-case-study-of-Alphabets-Learning.pdf)

Hydroponics Playground Garden, 'Playponics'; designing integrated sustainability and STEM education

through play.

Discovering Johnny Appleseed

Not play; but playfulness- Not ready made toys; but making of toys Exploring how children create knowledge by decoding various experiences and what can design education learn from it.

Culturally inclined games: A way to trigger quest for understanding ethnic identities

Creative Play: Thinking, Imagining, Inventing

Open design for enabling better access to STEM education for children

TAKTILE- Reggio inspired range of 'Learning-Play' products

Designing a pathway to holistic learning

DESIGNED TO PROPEL - Using Visual Design Principles to Promote Meaningful Learning in Constructivist Classrooms in K-5 Schools

Submissions/papers/Prachi Mittal/Prachi-Mittal-DESIGNED-TO-PROPEL-Using-Visual-Design-Principles-to-Promote-Meaningful-Learning-in-Constructivist-Classrooms-in-K-5 Schools.pdf)

Engaging Educational Interactions for Primary School Students

Children Storybooks Weaving Contemporary Stories with Indian Traditional Art forms

Conceptual models for better teaching and learning experience: An account of designing effective conceptual models for education kits of NCERT

Museum of Solutions

Learning environments: Absorption or mere adsorption

Play, Design, Education: a mutually beneficial ménage à trois. A model of epistemology and ontology for designers, educators, and... players

Theatre of the Imagination

Toys as child centric multisensory play way tools for learning: Case studies focusing on usage of Channapatna toys and Montessori didactic materials

Bio-cultural Diversity and Sustainability Learning Curriculum for Maharashtra

Unconventional Vs Conventional PictureBooks in Post-globalization

Designing play-based learning material under constraints

Parents-and-Children-with-Special-Learning-Needs.pdf)

In search of Play: 3 Ways Children Combine Digital and Tangible Play

Matter Matters: The Transformative Power of Materiality in the 21st Century Classroom

Using Programmable Toys to Develop Computational Thinking in Young Learners

Soorya Menon, Anand Ramaswami, Tarun Gangwar and Kshiteesh Kulkarni,

Tackling Anger in Children with Hearing Impairment

Sree Mahit Munakala, Chetan Manda and Sharmistha Banerjee, Indian Institute of Technology Guwahati, India. . . [Tall_Final-Submissions/papers/Sree Mahit Munakala/Sree-Mahit-Munakala-Tackling-Anger-in-Children-with-Hearing-Impairment.pdf)

Designing a learning-integrated, play-inspired assessment framework for children aged 11-15

The interplay of Design and Play as a way of learning - a pedagogical inquiry

Inclusive playgrounds for primary school children

Toys & tales: experiencing design process

Preserving the tradition and culture of North East India through digital and interactive game based learning for children

A Journey Into Classroom Experience of Budding Designers in Creative Product Designing for Kids

Integrating an Element of Play in Healthcare Environment for Children

How to design a safe space for childrens tangible telling

Aspect of SUBTLENESS in the learning environment

Tip Toe - A Multisensory Play Experience for Visually Impaired Children

Design As A Methodology for Learning Other Subjects

