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***Message from
Sanata Dharma University Rector***

On behalf of Sanata Dharma University, I feel honored to welcome all speakers and participants of The 7th South East Asia-Design Research (SEA-DR) 2019. I also would like to extend my warmest regards to all of you. Let us first thank the Almighty God for the grace we have received in attending this conference. I do hope this conference functions as an effective way to strengthen our role and improve our knowledge contribution as lecturers and researchers. I also wish that the 7th SEA-DR 2019 facilitates a fruitful sharing and exchange of ideas related to the conference's theme on 'Improving Professionalism and Reflective Thinking through Design Research.'

As a Jesuit University, Sanata Dharma is fully aware of the complexity and dynamics of learning because it is highly connected with identity, culture, and its less structured outcome that is difficult to measure. Moreover, learning in general is not merely about technical endeavor but more mental and spiritual one. The success of learning is much affected by the quality of enthusiasm, curiosity, self-esteem, and mode of dialog enjoyed by both students and lectures. Through such understanding, Sanata Dharma University commits to embrace and implement authentic and contextual learning by adopting unique learning paradigm called Ignatian Pedagogy. Employing Ignatian Pedagogy, learning outcome is directed to fully recognize that students are unique but expected to be a whole person having high competence in their field of study, capable of having conscience in their feeling and mind, and commit to develop their compassion to others. It is 3C in short.

To achieve such learning outcomes, Ignatian pedagogy needs a unique learning dynamic. It should provide enough time, space and attention to facilitate students' multi-sensory experiences from head, heart, and hand. Only through such dynamic, learning would be personalized, authentic, and far from being formalistic. In practice, Ignatian pedagogy requires learning

activity that follows a 5 steps cycle: start from understanding context, intensively using and recognizing real past experiences, doing some real related actions, employing comprehensive evaluation, and facilitating in depth reflection. Therefore, I position this conference as a highly relevant response to the recent call to all of us in improving our leaning quality while we are witnessing the rapid change of modern learning that is much influenced by sophisticated smart technology.

I do hope that the conference becomes a good avenue not only to discuss our research findings but also to facilitate a fruitful dialogue in which sharing of knowledge, values and awareness that take place with joy and respect to each other. It is through such an orientation that we can proactively contribute to shape up our new generation for the betterment of our society. May the conference be successful and enjoyable. Thank you.

Johanes Eka Priyatma, PhD
Rector of Sanata Dharma University

2019 Program Theme

Globalization and industrial revolution 4.0 provide immense opportunities for educational development. On the other hand, they are challenges for educational researchers and practitioner to innovate in providing an optimal learning environment for learners. Proactively developing our professionalism is a must in order to create research-informed innovation to our education system. We have to exercise reflective thinking to transform education's challenges into opportunities.

Based on the aforementioned rationale, South East Asia Design Research (SEA-DR) and Faculty of Teacher Training and Education of Universitas Sanata Dharma invites researchers, practitioners, educators, and policymakers to reflect on design research role in addressing educational challenges through international conference with the theme "Improving Professionalism and Reflective Thinking through Design Research."

2019 Organizing Committee

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Thank You Submitters and Reviewers

The conference committee wishes to extend appreciation to all submitters and reviewers for making the South East Asia Design Research International Conference 2019 success. The hard work, support, and dedication from each of these individuals, which comprise the backbone of the conference, make the participants and attendees be able to benefit from the quality of the presentations.

Foreword

It is an honor and privilege to welcome you to the 7th South East Asia Design Research International Conference. The conference's theme, "Improving Professionalism and Reflective Thinking through Design Research," invites us to reflect on the current educational challenges, e.g. globalization and industrial revolution 4.0, and transform them into opportunities through design research. It acknowledges the need to develop our professionalism so that we can proactively contribute to the advancement of educational science and praxis. It challenges us to re-thinking the design research as a method to make learning and teaching innovation possible, but also as a paradigm in building our capacity for innovation.

Yogyakarta is an artsy and historical city which serves as a fitting cultural, social, political, and economic milieu for the conference. The tagline, "Jogja Istimewa," itself shows how the city has special values to be explored and experienced, and we encourage you to absorb the city's abundance: The Kraton, the cultural and political heart of the city; Fort Vredeborg museum; Malioboro road; Dipowisata urban tourism, to name a few.

The perfect ambience of Yogyakarta will provide us with a convenient space to interact and exchange ideas with colleagues as a means of professional learning. Our goal is for you to get new ideas, tools, and materials from the conference which will contribute to your professional development. The variety of sessions, workshops, and social events will give you opportunities to connect with friends and colleagues to expand your networks. We are excited about the keynote and invited speakers. We believe they will share challenging and innovative ideas about education.

This conference is the result of the hard work, support, and dedication of a number of parties. We wish to thank all the committee members who together make the conference possible. The committee has been working throughout the year to propose sessions, review a record number of submissions, answer queries, arrange the schedule, and response to last-minute requests. We also want to thank Sanata Dharma University; Ministry of Research, Technology, and Higher Education of Indonesia; Sogang University and SEAMEO QITEP in Mathematics for their contribution to funding the conference.

Thank you for being here with us. We value your presence at the 7th South East Asia Design Research International Conference. Enjoy the conference!

Yosep Dwi Kristanto, Conference Chair

Albertus Hariwangsa Panuluh, Conference Vice Chair