FREUDENTHAL IDEAS CONTINUES IN INDONESIA: FROM ICMI 1994 TO ICME14 IN SHANGHAI

Zulkardi
Faculty of Teacher Training and Education Universitas Sriwijaya, Indonesia

In this paper I will share several projects on mathematics education designed and implemented at the Department of Mathematics Education Universitas Sriwijaya Indonesia. These projects are developed using the design research method. They are based on the foundational work of Freudenthal and his successors. The development of PMRI approach (the Indonesian version of Realistic Mathematics Education or RME) had its start at an ICMI Regional Conference Shanghai in 1994 where Robert Sembiring met Jan de Lange. I will also briefly reflect on how RME was adapted in Indonesia that still inspiring research and development in mathematics education.

The focus in my paper will be on: (1) designing learning environments within the PMRI approach to support students’ learning and teachers’ teaching of numeracy and mathematics literacy (2) creating PISA-like tasks on mathematics using Indonesian contexts, and (3) our way of surviving the current COVID-19 context. I will discuss these issues and illustrated them examples from PMRI practice.

References


