



The organizing committee of BTSym'19 certifies that

## **Twenty years survey of Big Data: definition, concepts and applications in engineering**

authored by **Massaki de Oliveira Igarashi, Paulo Egreja Sartorelli and Mariana Z. T. de Lima.** has been presented at the **Brazilian Technology Symposium'19** event, held on October 22th, 23th and 24th of 2019, at Universidade Presbiteriana Mackenzie - Campus Campinas, Campinas/SP, Brazil.

A blue ink signature of Yuzo Iano, consisting of stylized initials 'YI' followed by a long horizontal stroke.

**Yuzo Iano**

General Chair

A blue ink signature of Rangel Arthur, featuring a large, stylized 'R' and 'A'.

**Rangel Arthur**

Vice-General Chair

A blue ink signature of Gabriel Gomes de Oliveira, featuring a stylized 'GG' and 'O'.

**Gabriel Gomes de Oliveira**

Technical Program and  
Finance Chair