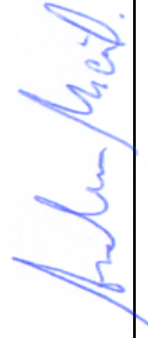


C E R T I F I C A T E

We certify that Paulo Bruno de Sousa Serafim attended SVR 2021, the 23rd Symposium on Virtual and Augmented Reality, held as a virtual conference from October 18 to 21, 2021.

Gramado - Brazil, October 20th, 2021



Anderson Maciel
General co-chair



Luciana Nedel
General co-chair