Sun Young Jang* (jsym@ulsan.ac.kr), Department of Mathematics, University of Ulsan, Namgu, Dachakro 93, Ulsan, 680-749, South Korea. *Uniqueness property of semigroup $C^*$-algebras.

The uniqueness property means that the structure of $C^*$-algebras generated by isometries does not depend on the choice of isometries on a Hilbert space. I show that the unperforated property of semigroups has a deep relation with the uniqueness property of the $C^*$-algebras generated by isometric representations of left cancellative semigroups and the reduced semigroup $C^*$-algebras of subsemigroups of $\mathbb{Z}$ generating the integer group $\mathbb{Z}$ are isomorphic to the Toeplitz algebra.

Mathematics Subject Classification: 46L55, 46L05 (Received September 07, 2015)