

**عنوان مقاله:**

ASSOCIATED CURVES OF THE SPACELIKE CURVE VIA THE BISHOP FRAME OF TYPE-2 IN  $E_1^3$

**محل انتشار:**

دوفصلنامه مرکز پژوهشی ریاضی ماهانی، دوره 8، شماره 1 (سال: 1398)

تعداد صفحات اصل مقاله: 12

**نویسندگان:**

Yasin Unluturk - Kirklareli University

Suha Yilmaz - Dokuz Eylul University

**خلاصه مقاله:**

The objective of the study in this paper is to define  $M_1, M_2$ -direction curves and  $M_1, M_2$ -donor curves of the spacelike curve  $\gamma$  via the Bishop frame of type-2 in  $E_1^3$ . We obtained the necessary and sufficient conditions when the associated curves to be slant helices and general helices via the Bishop frame of type-2 in  $E_1^3$ . After defining the spherical indicatrices of the associated curves, we obtain some relations between associated curves and their spherical indicatrices in terms of the frames used in the present work.

**کلمات کلیدی:**

Minkowski 3-space, Bishop frame of type-2,  $M_1 M_2$ -direction curves,  $M_1 M_2$ -donor curves, slant helices

**لینک ثابت مقاله در پایگاه سیویلیکا:**

<https://civilica.com/doc/970240>

