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On a random system with complete connections associated with the continued fraction to the nearer integer expansion. (English) [Zbl 0576.60100](#)

Rev. Roum. Math. Pures Appl. 30, 527-537 (1985).

The metric properties of the continued-fraction-to-the-nearer-integer expansion have been studied by *G. J. Rieger* [*Manuscr. Math.* 24, 437-448 (1978; [Zbl 0377.10028](#)); *J. Reine Angew. Math.* 310, 171-181 (1979; [Zbl 0409.10038](#))] and *A. M. Rockett* [*Acta Arith.* 38, 97-103 (1980; [Zbl 0368.10039](#))]. The present author shows that these properties can be obtained as corollaries of random-system-with-complete-connections theory [see e.g. *Ș. Grigorescu* and the reviewer, "Dependence with complete connections and its applications." București, Ed. Științifică și Enciclopedică, (Romanian) (1982), chapter 3]. A similar treatment for the continued fraction expansion motivating the author's approach has been given by the reviewer, *Progress in Statistics, Europ. Meeting Budapest 1972, Colloq. Math. Soc. János Bolyai* 9, 335-363 (1974; [Zbl 0299.60077](#)).

Reviewer: [M.Iosifescu](#)

MSC:

[60K99](#) Special processes

[60K10](#) Applications of renewal theory (reliability, demand theory, etc.)

Cited in **1** Review

Cited in **5** Documents

Keywords:

random-system-with-complete-connections; continued fraction expansion