## ABSTRACT

This application belongs to the field of communication technologies, and provides a communication method, apparatus, and system. The communication method includes: sending a transmission frame, where the transmission frame includes a ranging sequence field, the ranging sequence field includes at least one ranging subsequence, the ranging subsequence includes a plurality of ranging symbols, and the ranging sequence field is used to perform CIR estimation. A first ranging symbol in the plurality of ranging symbols is generated based on a first original code sequence in an original code sequence set, the original code sequence set includes a plurality of original code sequences, and the first original code sequence is randomly obtained from the original code sequence set in a symmetric encryption manner. This application can implement high-precision positioning, and provide security protection for ranging information. This application is used for data communication an positioning.