

IEEE Journal and Conference Papers (under review and 2021)

[FTN11] Z. Zhang, M. Yuksel, H. Yanikomeroglu, “Faster-than-Nyquist signaling for MIMO communications”, under review in *IEEE Transactions on Wireless Communications*. [[arXiv](#)]

[FTN10] A. Cicek, E. Cavus, E. Bedeer, H. Yanikomeroglu, “Low complexity soft-output faster-than-Nyquist detector based on semidefinite relaxation”, under review in *IEEE Communications Letters*.

[FTN09] A. Ibrahim, E. Bedeer, H. Yanikomeroglu, “A novel low complexity faster-than-Nyquist (FTN) signaling detector for ultra high-order QAM”, *IEEE Open Journal of the Communications Society*, 2021. [[Xplore](#)]

[FTN08] E. Cerci, A. Cicek, E. Cavus, E. Bedeer, H. Yanikomeroglu, “Coded faster-than-Nyquist signaling for short packet communications”, *IEEE PIMRC 2021*. [[Xplore](#)]

[FTN07] A. Ibrahim, E. Bedeer, H. Yanikomeroglu, “A novel low complexity faster-than-Nyquist signaling detector based on the primal-dual predictor-corrector interior point method”, *IEEE Communications Letters*, July 2021. [[Xplore](#)]

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[FTN06] A. Caglan, A. Cicek, E. Cavus, E. Bedeer, H. Yanikomeroglu, “**Polar coded faster-than-Nyquist (FTN) signaling with symbol-by-symbol detection**”, *IEEE Wireless Commun. Netw. Conf. (WCNC) 2020*.

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[FTN05] M. Kulhandjian, E. Bedeer, H. Kulhandjian, C. D’Amours, H. Yanikomeroglu, “**Low-complexity detection for faster-than-Nyquist signaling based on probabilistic data association**”, *IEEE Communications Letters*, April 2020.

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[FTN04] E. Bedeer, H. Yanikomeroglu, M.H. Ahmed, “**Low-complexity detection of M-ary PSK faster-than-Nyquist (FTN) signaling**”, *IEEE Wireless Commun. and Networking Conf. Workshops (WCNCW) 2019*.

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[FTN02] E. Bedeer, M.H. Ahmed, H. Yanikomeroglu, “**A very low complexity successive symbol-by-symbol sequence estimator for binary faster-than-Nyquist signaling**”, *IEEE Access*, 2017.

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[FTN01] E. Bedeer, H. Yanikomeroglu, M.H. Ahmed, “**Reduced complexity optimal detection of binary faster-than-Nyquist signaling**”, *IEEE International Conference on Communications (ICC) 2017*.

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