ANALYSIS ON THE TIME–VARYING GAP OF DISCRETE TIME–VARYING LINEAR SYSTEMS

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Abstract. This paper is devoted to give some analysis on the time-varying (TV) gap of discrete time-varying linear systems in the frame work of nest algebra. It is shown that the TV gap has no advantage over gap metric in stability and robustness analysis on the single-sided discrete time-axis $\mathbb{N}$, while it stands out on the whole time-axis $\mathbb{Z}$.

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