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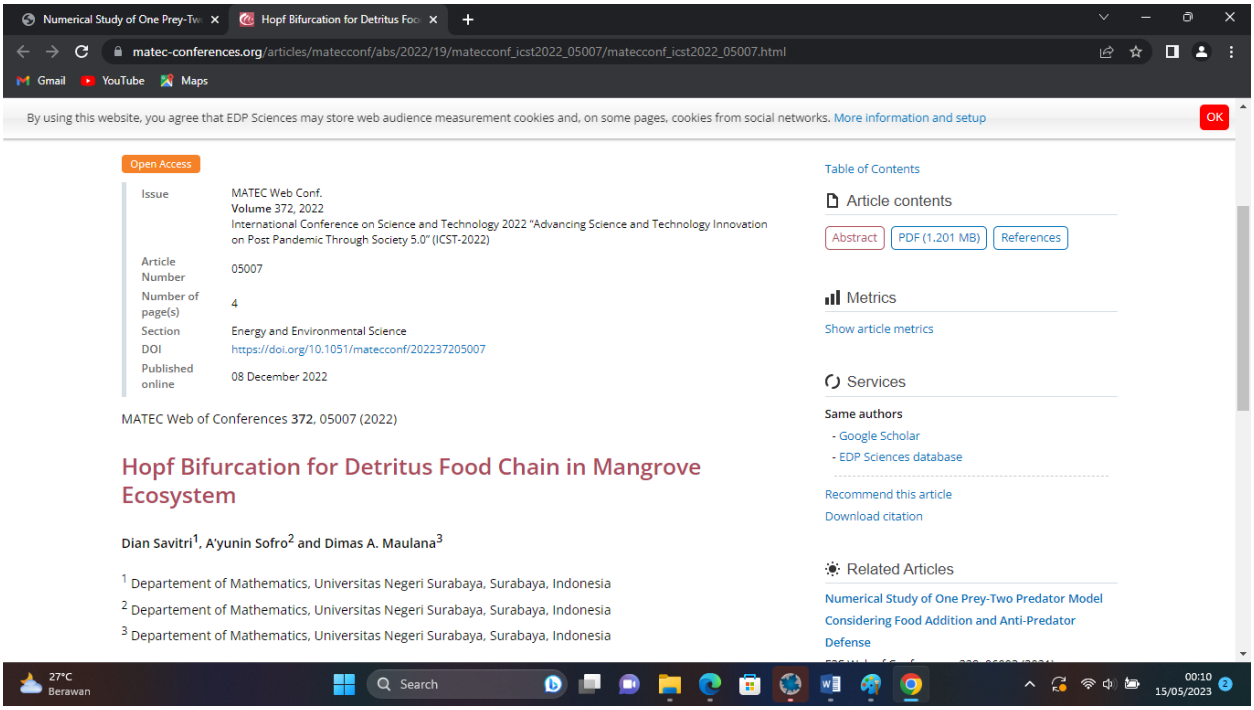

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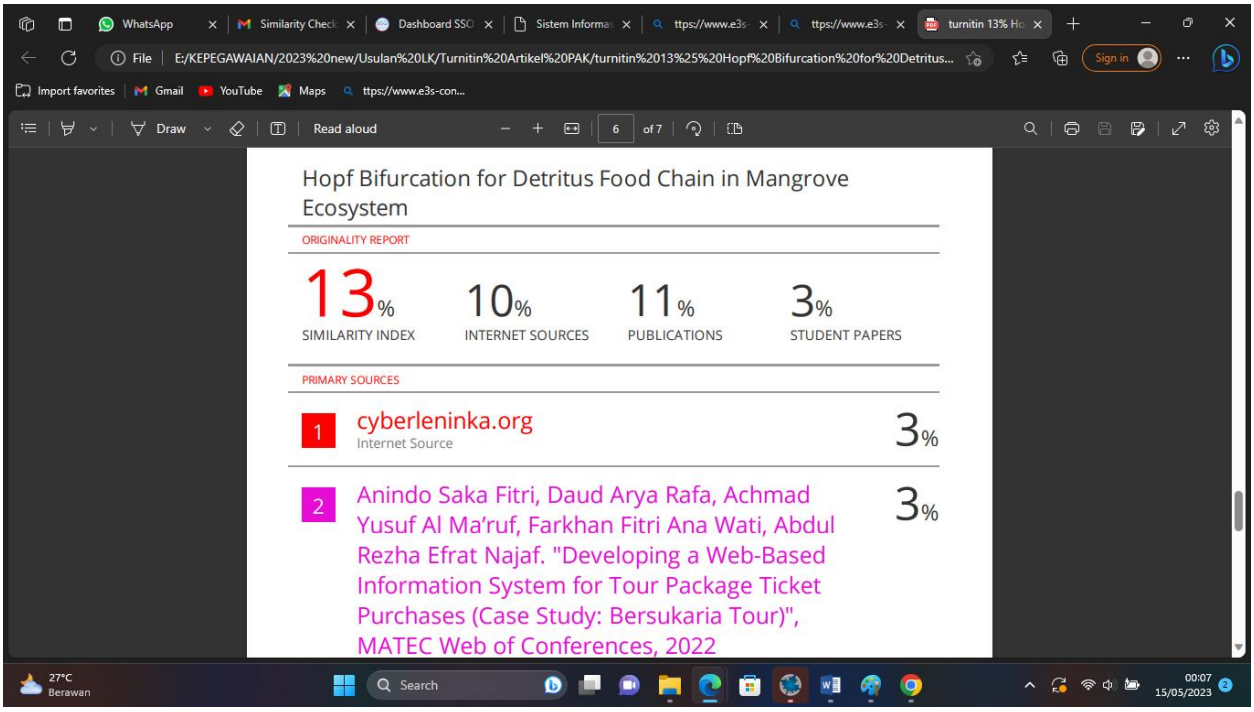
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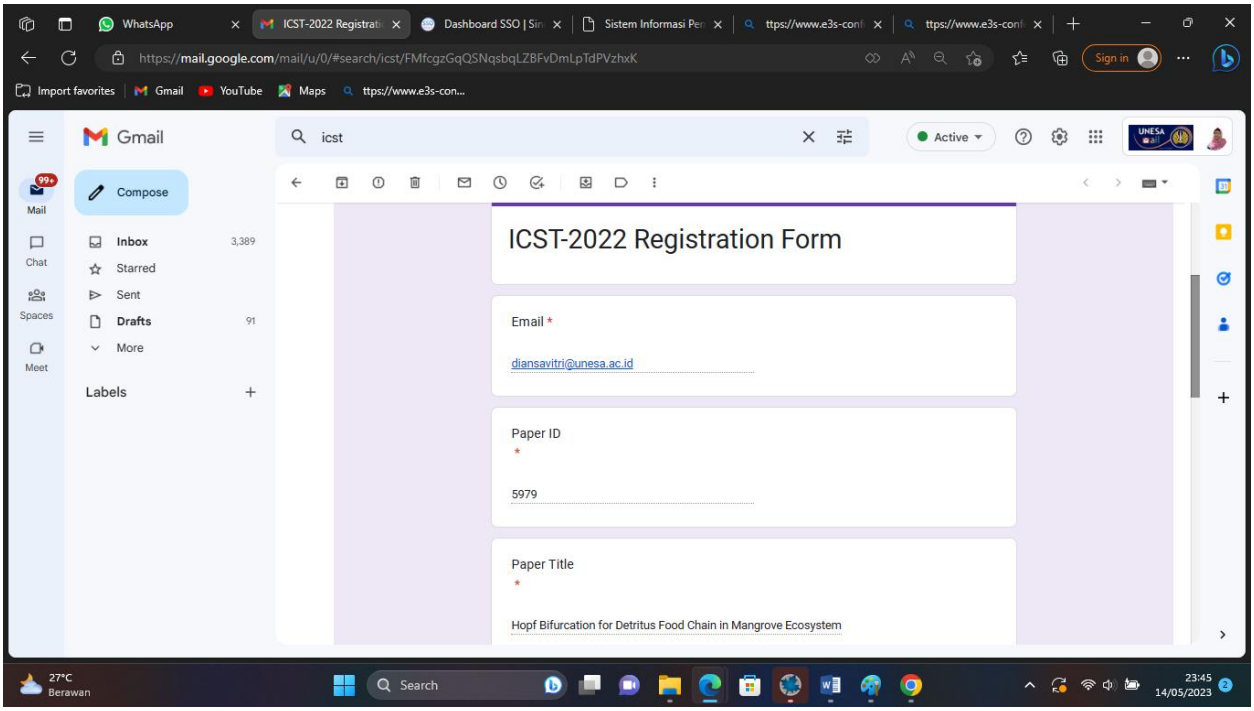
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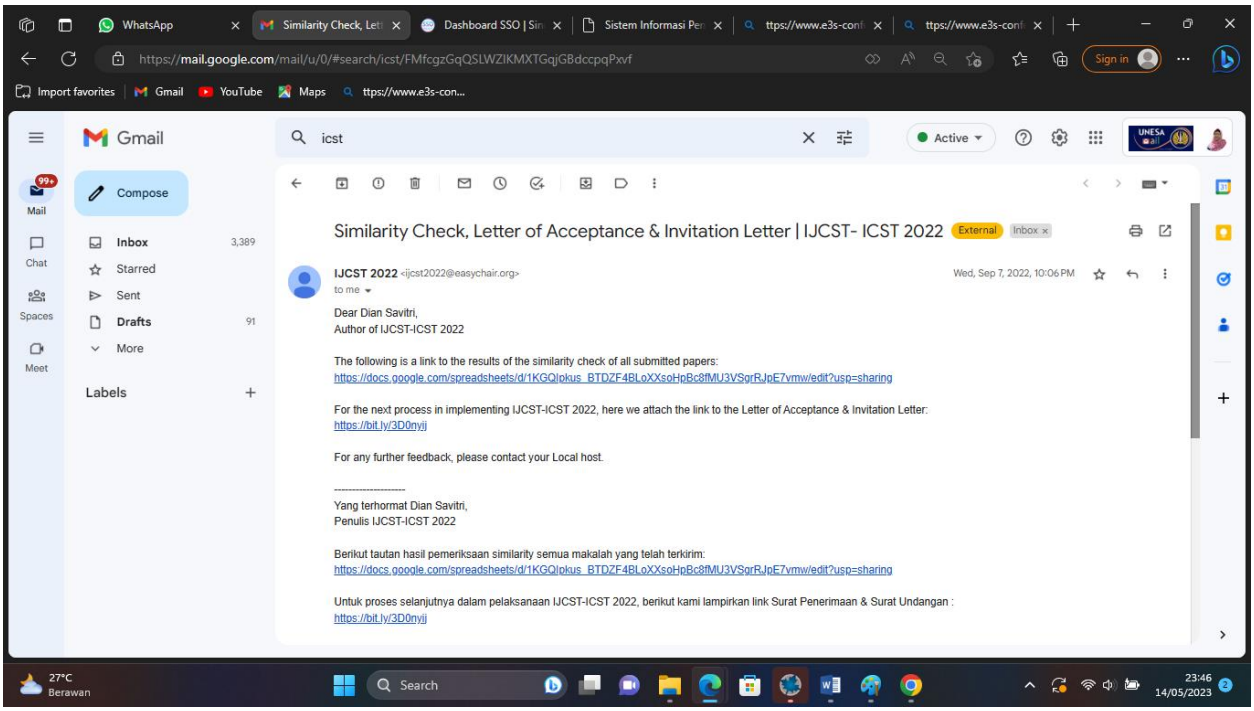
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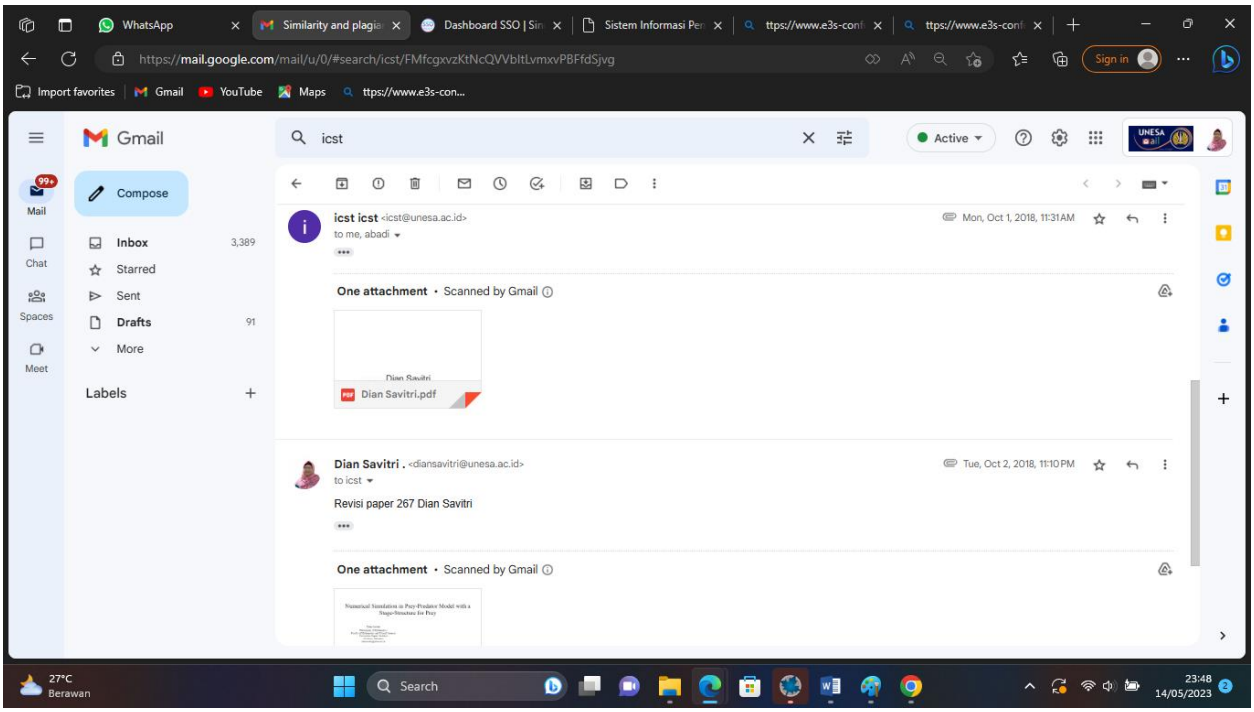
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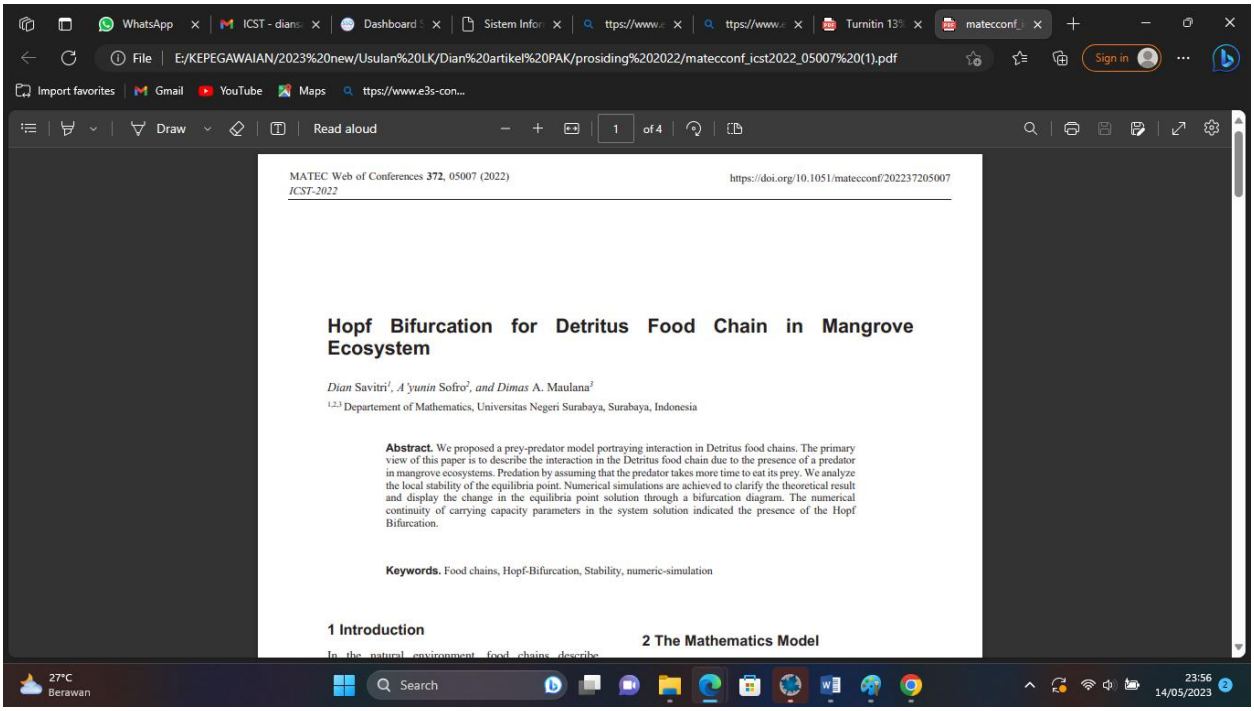

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Hopf Bifurcation for Detritus Food Chain in Mangrove Ecosystem

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Abstract. We proposed a prey-predator model portraying interaction in Detritus food chains. The primary view of this paper is to describe the interaction in the Detritus food chain due to the presence of a predator in mangrove ecosystems. Predation by assuming that the predator takes more time to eat its prey. We analyze the local stability of the equilibria point. Numerical simulations are achieved to clarify the theoretical result and display the change in the equilibria point solution through a bifurcation diagram. The numerical continuity of carrying capacity parameters in the system solution indicated the presence of the Hopf Bifurcation.

Keywords. Food chains, Hopf-Bifurcation, Stability, numeric-simulation

1 Introduction

2 The Mathematics Model