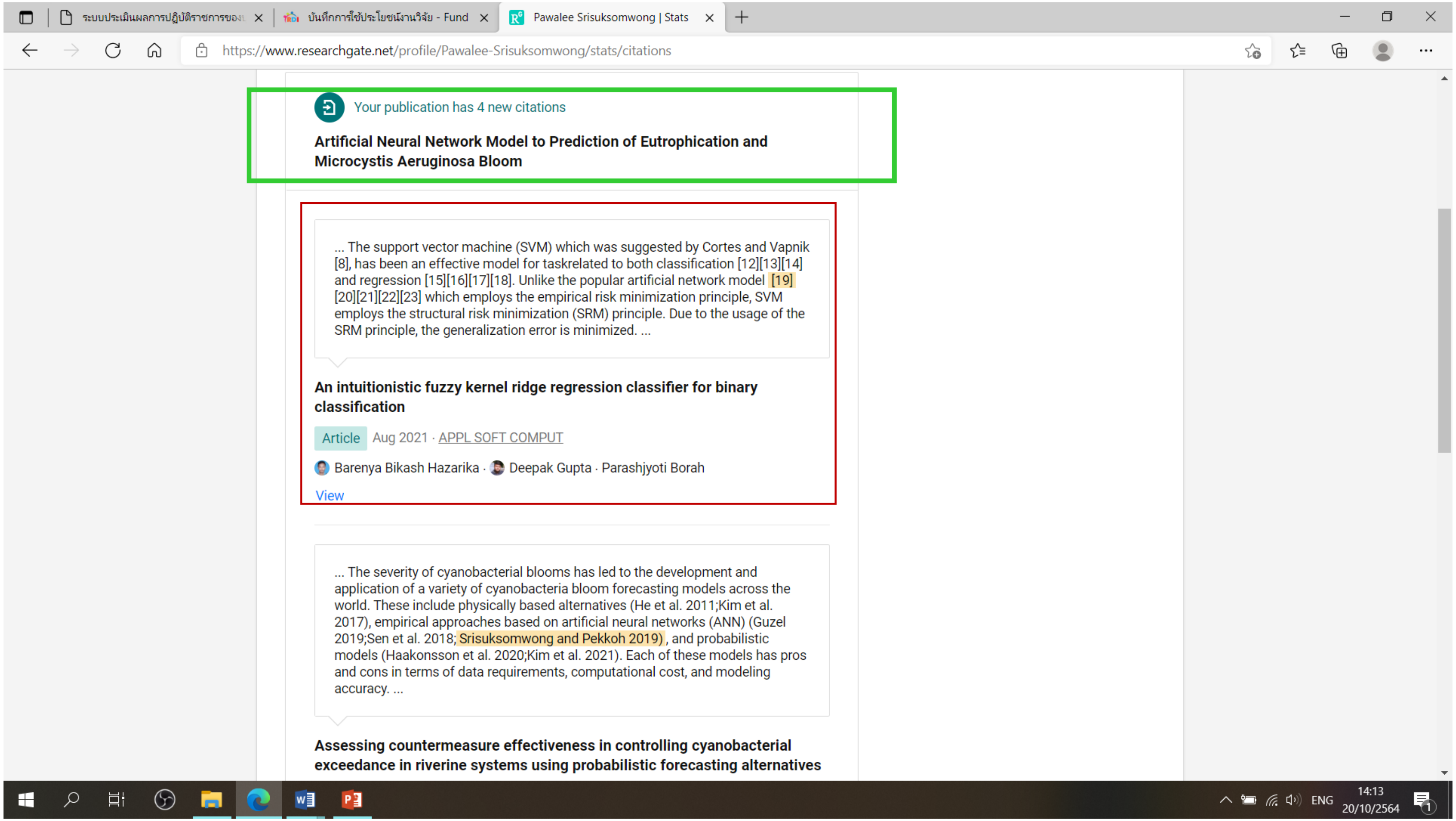

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Artificial Neural Network Model to Prediction of Eutrophication and Microcystis Aeruginosa Bloom

... The support vector machine (SVM) which was suggested by Cortes and Vapnik [8], has been an effective model for taskrelated to both classification [12][13][14] and regression [15][16][17][18]. Unlike the popular artificial network model [19] [20][21][22][23] which employs the empirical risk minimization principle, SVM employs the structural risk minimization (SRM) principle. Due to the usage of the SRM principle, the generalization error is minimized. ...

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... The severity of cyanobacterial blooms has led to the development and application of a variety of cyanobacteria bloom forecasting models across the world. These include physically based alternatives (He et al. 2011;Kim et al. 2017), empirical approaches based on artificial neural networks (ANN) (Guzel 2019;Sen et al. 2018; Srisuksomwong and Pekkoh 2019), and probabilistic models (Haakonsson et al. 2020;Kim et al. 2021). Each of these models has pros and cons in terms of data requirements, computational cost, and modeling accuracy. ...

Assessing countermeasure effectiveness in controlling cyanobacterial exceedance in riverine systems using probabilistic forecasting alternatives

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