Accepted Manuscript

Prediction of Retinopathy in Diabetic Patients Using Type-2 Fuzzy Regression Model

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PII:S0377-2217(17)30673-2DOI:10.1016/j.ejor.2017.07.046Reference:EOR 14596

To appear in: European Journal of Operational Research

Received date:16 October 2015Revised date:30 June 2017Accepted date:14 July 2017

Please cite this article as: Narges Shafaei Bajestani, Ali Vahidian Kamyad, Ensieh Nasli Esfahani, Assef Zare, Prediction of Retinopathy in Diabetic Patients Using Type-2 Fuzzy Regression Model, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.07.046

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Highlights

- A type-2 fuzzy regression model is used to predict retinopathy in diabetic patient.
- Type-2 fuzzy sets are used to handle high levels of uncertainties in diabetes data.
- HbA1c, FBS, BP and the age of first diagnosis were found to be significant to predict retinopathy.
- The disease cost is decreased by optimizing the numbers of check-ups.
- The proposed model helps experts in making better decisions to postpone retinopathy.

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