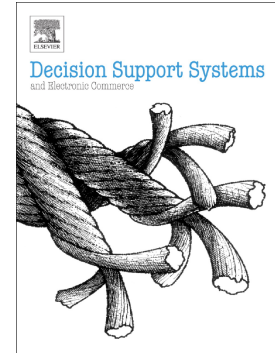


Accepted Manuscript

A synthetic informative minority over-sampling (SIMO) algorithm leveraging support vector machine to enhance learning from imbalanced datasets

Saeed Piri, Dursun Delen, Tieming Liu



PII: S0167-9236(17)30218-X
DOI: doi:[10.1016/j.dss.2017.11.006](https://doi.org/10.1016/j.dss.2017.11.006)
Reference: DECSUP 12900

To appear in: *Decision Support Systems*

Received date: 23 June 2017
Revised date: 17 October 2017
Accepted date: 25 November 2017

Please cite this article as: Saeed Piri, Dursun Delen, Tieming Liu , A synthetic informative minority over-sampling (SIMO) algorithm leveraging support vector machine to enhance learning from imbalanced datasets. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Decsup(2017), doi:[10.1016/j.dss.2017.11.006](https://doi.org/10.1016/j.dss.2017.11.006)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

TITLE PAGE

A Synthetic Informative Minority Over-Sampling (SIMO) Algorithm Leveraging Support Vector Machine to Enhance Learning from Imbalanced Datasets**Saeed Piri^a, Dursun Delen^{b#}, and Tieming Liu^c**

^a Department of Management Science and Information Systems, Spears School of Business,
Oklahoma State University, Stillwater, OK, 74078, U.S.A.

Email: saeed.piri@okstate.edu

^b Department of Management Science and Information Systems, Center for Health Systems
Innovation, Spears School of Business, Oklahoma State University, Tulsa, OK, 74106, U.S.A.

Email: dursun.delen@okstate.edu

^c Department of Industrial Engineering and Management, College of Engineering, Architecture
and Technology, Oklahoma State University, Stillwater, OK, 74078, U.S.A.

Email: tieming.liu@okstate.edu

Corresponding author:

Dursun Delen, Ph.D.

Regents Professor of Management Science and Information Systems

Spears and Patterson Endowed Chairs in Business Analytics

Director of Research—Center for Health Systems Innovation

Spears School of Business, Oklahoma State University

700 North Greenwood Ave.,

Tulsa, Oklahoma, 74106, USA

P: (918) 594-8283; F: (918) 594-8281

Email: dursun.delen@okstate.edu; Web: <http://spears.okstate.edu/delen>

Download English Version:

<https://daneshyari.com/en/article/6948390>

Download Persian Version:

<https://daneshyari.com/article/6948390>

[Daneshyari.com](https://daneshyari.com)