



## CALL FOR PAPERS

### Decision Sciences: A Journal of the Decision Sciences Institute Special Issue of Data Mining & Decision Analytics

#### Special Issue Scope:

Decision analytics consists of three main components from raw data to final insightful decisions: descriptive analytics, predictive analytics, and prescriptive analytics. This special issue is focused on studies where theoretical foundation development, novel applied and methodological approaches are presented for improved managerial decision making practices. *Data mining* and *decision analytics* have strong foundations ranging from decision theory and operations research to advanced statistical modeling. Both have emerged to be successful when deployed in managerial decision making within a range of critical business areas including Accounting, Finance, Information Systems, International Business, Logistics, Management, Marketing, Production & Operations, and the Supply Chain. This in turn has drawn the attention of researchers from various disciplines as reflected in the growth of the conferences and workshops particularly themed with data mining and decision analytics. This special issue welcomes the best submissions of 2016 INFORMS Workshop on Data Mining & Decision Analytics, DSI 2016, ICIS 2016, AMCIS 2016, ECIS 2016, and HICSS 2017. Participants of this workshop and these conferences are highly encouraged to submit their extended and enriched papers to this special issue, fully conforming to the specifications of the Decision Sciences journal as outlined by its Author Guidelines.

While the targeted papers are desired to have very strong theoretical contribution in these areas, direct managerial implications should also be relevant and significant. This special issue will solicit papers emphasizing analytical modeling methodologies which include, but not limited to:

- Business analytics: Descriptive, Predictive, and Prescriptive Analytics
- Decision support systems and business intelligence
- Data mining, data analytics with big data
- Statistical inference making and probabilistic modeling
- Artificial intelligence, machine learning
- Association rule mining, clustering, feature selection
- Text mining, web mining, and visual analytics
- Causal inference, structural equation modeling, partial least squares modeling
- Multi-criteria decision making
- Fuzzy logic modeling
- Simulation modeling and optimization

Other topics that can be categorized under the “decision analytics” context are also welcome. Please consult the guest co-editors if you need a clarification in that regard before submission.

### **Tentative Schedule:**

Considering the timing of the 2016 INFORMS Workshop on Data Mining & Decision Analytics, DSI 2016, ICIS 2016, AMCIS 2016, ECIS 2016, and HICSS 2017; the projected timeline for this special issue has been set as follows:

Deadline for full paper submissions: February 28, 2017

Final notifications to authors: end of February, 2018

### **Submission Instructions:**

Manuscripts should be submitted online directly. Please see instructions on the journal’s website <http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291540-5915>. Please select article type “Special Issue: Data Mining & Decision Analytics” while uploading your paper.

All submitted papers will be rigorously peer-reviewed according to the regular high standards of the Decision Sciences journal.

### **Guest Co-Editors & Biographies:**

**Dr. Asil Oztekin**, UMass Lowell, Manning School of Business, Asil\_Oztekin@uml.edu

**Dr. Dursun Delen**, Oklahoma State University, Spears School of Business, Dursun.Delen@okstate.edu

**Dr. Ramesh Sharda**, Oklahoma State University, Spears School of Business, Ramesh.Sharda@okstate.edu

**Dr. Asil Oztekin** is an Assistant Professor of Operations and Information Systems Department, Manning School of Business and a participating faculty member for the Biomedical Engineering & Biotechnology Program at UMass Lowell. He received his Ph.D. degree from Oklahoma State University, Industrial Engineering and Management department. His work has been published in top tier outlets such as *Decision Support Systems*, *European Journal of Operational Research*, *International Journal of Production Research*, *OMEGA*, and *Annals of Operations Research* among others. Dr. Oztekin co-edited two special issues as a Guest Editor: “Data Mining & Analytics” at the *Annals of Operations Research* journal and “Intelligent Computational Techniques in Science, Engineering, and Business” at the *Expert Systems with Applications* journal. He is currently serving as the Associate Editor of the *Decision Support Systems* journal and the *Journal of Modelling in Management*. He is also currently serving as an official Editorial Review Board member for the *Industrial Management & Data Systems*, *Journal of Computer Information Systems*, and *Service Business: an International Journal*, *International Journal of Medical Engineering & Informatics* among others. He also frequently serves as an ad-hoc reviewer for *Decision Support Systems*,

*Decision Sciences, International Journal of Forecasting, International Journal of Production Research, International Journal of Production Economics, Annals of Operations Research, Computers & Industrial Engineering, Information Systems Frontiers, Applied Mathematical Modelling, and Computer Methods & Programs in Biomedicine* journals among many others. Dr. Oztekin often leads mini-tracks and sessions at INFORMS and HICSS conferences such as Data, Text, & Web Mining for Business Analytics, Data Mining in Decision Making, Predictive Analytics & Big Data, Data Mining & Analytics and etc. He chaired the InformS 2015 Data Mining & Analytics Workshop and is serving as such again for InformS 2016 Data Mining & Decision Analytics Workshop. Asil Oztekin has been selected as the Faculty Honoree of 29 Who Shine in May 2014 by the Governor and Department of Higher Education in Massachusetts. Dr. Oztekin has received the Teaching Excellence Award in April 2014 and has been the Outstanding Recognized Researcher of the Manning School of Business awarded by the Vice Provost for Research of UMass Lowell in February 2014 and in March 2016. He has been listed on the Faculty Honors & Awards Wall of UMass Lowell by the Vice Chancellor for Research & Innovation of UML. He was also the recipient of the Alpha Pi Mu Outstanding Industrial Engineering & Management Research Assistant Award from Oklahoma State University in 2009. Dr. Oztekin is a member of INFORMS and Decision Sciences Institute (DSI).

**Dr. Dursun Delen** currently holds Spears and Patterson Endowed Chairs in Business Analytics, and is a Professor of Management Science and Information Systems in the Spears School of Business at Oklahoma State University (OSU). He received his Ph.D. in Industrial Engineering and Management from OSU in 1997. Prior to his appointment as an Assistant Professor at OSU in 2001, he worked for a privately-owned research and consultancy company, Knowledge Based Systems Inc., in College Station, Texas, as a research scientist for five years, during which he led a number of decision support and other information systems related research projects funded by federal agencies, including DoD, NASA, NIST and DOE. His research has appeared in major journals including *Decision Support Systems, Decision Sciences, Communications of the ACM, Computers and Operations Research, Computers in Industry, Journal of Production Operations Management, Artificial Intelligence in Medicine, Expert Systems with Applications*, among others. He recently published seven books and textbooks in the broad area of data mining, text mining and business analytics. He is often invited to national and international conferences for keynote addresses on topics related to Data/Text Mining, Business Intelligence, Decision Support Systems, and Knowledge Management. He served as the general co-chair for the 4th International Conference on Network Computing and Advanced Information Management (September 2-4, 2008 in Seoul, South Korea), and regularly chairs tracks and mini-tracks at various information systems conferences. He is currently serving on 12 academic journal editorial boards as editor in chief, senior editor, associate editor, and editorial board member.

**Dr. Ramesh Sharda** is the Vice Dean of the Watson Graduate School of Management, Watson/ConocoPhillips Chair and a Regents Professor of Management Science and Information Systems in the Spears School of Business at Oklahoma State University. He has coauthored two textbooks (*Business Intelligence and Analytics: Systems for Decision Support*, 10th edition, Prentice Hall and *Business Intelligence: A Managerial Perspective on Analytics*, 3rd Edition, Prentice Hall). His research has been published in major journals in management science and information systems including *Management Science, Operations Research, Information Systems Research, Decision Support Systems, Interfaces, INFORMS Journal on Computing*, and many others. He is a member of the editorial boards of journals such as the *Decision Support Systems, Decision Sciences, and Information Systems Frontiers*. He is currently serving as the Executive Director of Teradata University Network and received the 2013 INFORMS HG Computing Society Lifetime Service Award.