Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection

By Ali Serhan Koyuncugil

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Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection has never been more important, as the research this book presents an alternative to conventional surveillance and risk assessment. This book is a multidisciplinary excursion comprised of data mining, early warning systems, information technologies and risk management and explores the intersection of these components in problematic domains. It offers the ability to apply the most modern techniques to age old problems allowing for increased effectiveness in the response to future, eminent, and present risk.

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Editorial Review

About the Author

Ali Serhan Koyuncugil is working as a statistician for Capital Markets Board of Turkey. He had his B.Sc., M.Sc. and Ph.D. degrees in statistics from Ankara University Department of Statistics. His current research interests are design and development of fraud detection, risk management, early warning, surveillance, information, decision-support and classification systems, design and development of datawarehouses and statistical databases, development of indicators, models and algorithms, conducting analysis on capital markets, finance, health, SMEs, large scale statistical researches (e.g. census), population and development, socio-economic and demographic affairs based on data mining, statistics, quantitative decision making, operational research, optimization, mathematical programming, fuzzy set, technical demography theory and applications. He is elected member (fellow) of the International Statistical Institute (ISI) and member of the IASC and IASS sections of ISI, Turkish Statistical Association, Turkish Informatics Society and was former vice head of Turkish Statisticians Association. He has been taking part in a lot of international and national projects (UN, IBRD, EU, etc.). He has been taking part in a lot of international and national journals, conferences as an editorial board member, organizer, reviewer and advisor. His latest researches are about early warning systems based on data mining.

Nermin Ozgulbas is associate professor of finance at Baskent University in Turkey. She taught financial management, financial analysis and cost accounting in Baskent University, distance education program of Anadolu University and Turkish Ministry of Health. Her research and publication activities include finance, cost accounting, risk management, early warning systems, and data mining in especially SMEs, capital markets, health care organizations, and social security. She has been participating in a lot of international and national projects and conferences as an organizer, reviewer and advisor. Her latest researches are about early warning systems based on data mining.

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