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

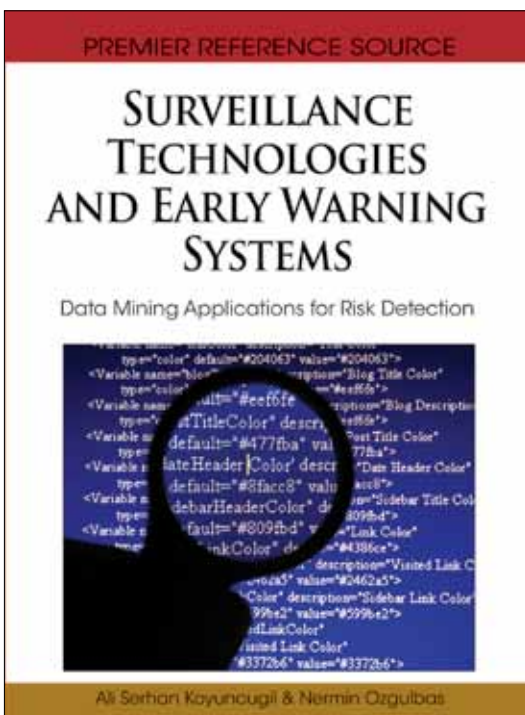
Ali Serhan Koyuncugil (Capital Markets Board of Turkey, Turkey and Baskent University, Turkey) and Nermin Ozigulbas (Baskent University, Turkey)

The modern world is fraught with risk, from natural disasters and terrorist attacks, to financial crises and pandemics. Assessing and planning for these risks can be done with a conventional human-based approach but this often requires large amounts of time and resources.

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.

Topics Covered:

- Data Mining For Surveillance
- Knowledge Discovery In Databases
- Privacy Protection
- Statistical Estimations Divergence
- Active Risk Management
- Early Warning Systems
- Financial Crisis Prevention
- Machine Learning Techniques
- Prevention Of Crime
- Economic Crime Risk Management



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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

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 data-warehouses 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.



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