

Expert Systems



Special Issue Call for Papers

Special Issue on: “**Advances in algorithms and programs in crime detection and prevention**”

Aim and Scope

Understanding the when, where, and how of crime is an extremely important part of policing and crime prevention. Law Enforcement Organisations around the world are currently focusing more on using research and technology to increase their capacity to manage crime. Evidenced-Based Policing (EBP) groups are now commonplace in many LEOs, and are working collaboratively with researchers to develop new programs and methods for crime prevention. In recent years there has been a growing use of big data analytical approaches to map and understand crime patterns. Various approaches have been suggested from geospatial to temporal methods, as well as Social Network Analysis and crime linkage programs. Large databases have been sourced and programs tested on the predictive validity of several approaches, with varying degrees of success.

A main focus of the Special Issue is not only to provide insight into novel approaches and advances in tackling crime; but, to provide outputs that are clear for end-users (i.e., LEOs) to implement and put into practice. The integration of an expert’s knowledge alongside applied, integrated systems of understanding is a primary focus for bridging the gap between academic and practitioner approaches. Authors are therefore encouraged to provide an overview of their statistical or methodological approach that is ‘fit-for-purpose’ of allowing non-specialist audiences to understand and apply the methods.

Topics can take a variety of approaches to tackling crime; these are some of the proposed areas:

- Big data analytical approaches to crime prevention
- Artificial Intelligence / Machine learning
- Temporal / Sequence Analytical approaches
- Geospatial analyses
- (Social) Network Analysis
- Crime linkage / Visual Clustering Algorithms
- Text mining / Interrogation analytical approaches
- Bayesian analytical approaches

Please note: any area of crime or criminal investigation can be used, from detection of crime hotspots, through to interrogation and processing of evidence.

This Special Issue will be based on an **open call** (i.e., works that have not been published nor submitted anywhere else for publication). The manuscripts will be subjected to the standard review procedures, and authors are invited to submit their papers directly via the online submission systems at <https://mc.manuscriptcentral.com/exsy> for this special issue: **Advances in algorithms and programs in crime detection and prevention.**

Guest Editors

Dr David Keatley, Researchers in Behaviour Sequence Analysis, School of Law, Murdoch University, Perth, Western Australia

Prof. David D. Clarke, Emeritus Professor of Psychology, School of Psychology, University of Nottingham, Nottingham, UK

Supervisory Editor

Dr Jon G. Hall, Researcher in Complex Problem Solving, The Open University, UK

Important Dates

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| Submission Due | 30th September 2019 |
| 1st Round Notification | 30th November 2019 |
| Revision | 1st February 2020 |
| Final Notification | April/May 2020 |