A social media and crowd-sourcing data mining system for crime prevention during and post-crisis situations

DOMDOUZIS, Konstantinos <http://orcid.org/0000-0003-3679-3527>, AKHGAR, Babak <http://orcid.org/0000-0003-3684-6481>, ANDREWS, Simon <http://orcid.org/0000-0003-2094-7456> and GIBSON, Helen <http://orcid.org/0000-0002-5242-0950>

Available from Sheffield Hallam University Research Archive (SHURA) at:
http://shura.shu.ac.uk/12182/

This document is the author deposited version. You are advised to consult the publisher's version if you wish to cite from it.

Published version


Copyright and re-use policy

See http://shura.shu.ac.uk/information.html
Fig. 1 The ATHENA System

<table>
<thead>
<tr>
<th>Category</th>
<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attack</td>
<td><img src="image1" alt="Attack Icon" /></td>
</tr>
<tr>
<td>Crime</td>
<td><img src="image2" alt="Crime Icon" /></td>
</tr>
<tr>
<td>Explosion</td>
<td><img src="image3" alt="Explosion Icon" /></td>
</tr>
<tr>
<td>Fire</td>
<td><img src="image4" alt="Fire Icon" /></td>
</tr>
<tr>
<td>Hazard</td>
<td><img src="image5" alt="Hazard Icon" /></td>
</tr>
<tr>
<td>Help</td>
<td><img src="image6" alt="Help Icon" /></td>
</tr>
<tr>
<td>Infrastructure</td>
<td><img src="image7" alt="Infrastructure Icon" /></td>
</tr>
<tr>
<td>Medical</td>
<td><img src="image8" alt="Medical Icon" /></td>
</tr>
<tr>
<td>Natural Disaster</td>
<td><img src="image9" alt="Natural Disaster Icon" /></td>
</tr>
<tr>
<td>Public Disorder</td>
<td><img src="image10" alt="Public Disorder Icon" /></td>
</tr>
<tr>
<td>Transport</td>
<td><img src="image11" alt="Transport Icon" /></td>
</tr>
<tr>
<td>No Category</td>
<td><img src="image12" alt="No Category Icon" /></td>
</tr>
</tbody>
</table>

Fig. 2 Different Pin Categories
Fig. 3 The iOS and Android version of the ATHENA Mobile App

Fig. 4 Side Menu of the ATHENA Mobile App
Fig. 5 Mobile Crisis Map and List of Reports

Fig. 6 ATHENA CCCID Crisis Map with News List
Fig. 7 ATHENA CCCID Crisis Map displaying of crisis reports

Fig. 8 Interface of SAS Information Retrieval Studio (Twitter Crawler)
Fig. 9 ATHENA Crisis-dedicated Facebook Page

Fig. 10 ATHENA Crisis-dedicated Twitter Page