



**TECHNICAL REPORT
UNIVERSITY RESEARCH GRANT**

**Digital Flood Mapping:
Case Study of 2007 Sungai Pahang Flood**

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Several major floods have been experienced in Malaysia for the last few decades. Flood occurrences seem to be getting more frequent in recent years, especially in some cities like Kuala Lumpur, Penang and Kuching where rapid urbanisation is taking place. After several dramatic flooding events struck the country with dramatic lives and property losses since the 1960s, the government has taken several positive steps and seriously planning to envisage flood mitigation projects in its national plans, translated substantially by the establishment of the Natural Disaster Relief Committee in 1972 and the Permanent Flood Control Commission in December 21, 1971 purposed for to study short-term measures to prevent the occurrence of floods and long-term measures for flood mitigation. In this study, results are presented to develop a digitally flood map for the 2007 flood inundation areas along Sungai Pahang by gathering hydraulic and hydrologic data. This will allow a proper evaluation on the impact of future flood events and advise the implementing agencies as to what steps need to be undertaken to provide further preventative measures to avoid the anticipated flood problems that might occur.