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| Image result for UM logo |
| Image Classification with Spark in Raspberry Pi |
| Supervised By: Dr. Hamid Tahaei |

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# Introduction

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# Previous Case Study

According to our research, image classification using Raspberry Pi is not new as there are plenty of previous researches regarding it. To kick start was a research done by (Kochláň, Hodoň, Čechovič, Kapitulík, & Jurečka, 2014) where researchers for this paper conducted a research an image classification using a Raspberry Pi to monitor traffic flow. At the end of the researcher, researchers managed to obtain two findings, which is the traffic volume and vehicle class. Throughout this system, researchers managed to achieve an accuracy level of 95.7% and 63.2%, for traffic volume and vehicle class respectively. Unfortunately, the system was not able to identify the vehicle speed which due to the non-functional microwave speed detector.

{Kochláň, 2014 #90}

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| Source | Domain | Equation |
| (Kochláň et al., 2014) | Traffic | where B(m) and F(m) are background and current frame matrices in time *m.* |
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# Research Procedure

# Results & Discussion

# References

Kochláň, M., Hodoň, M., Čechovič, L., Kapitulík, J., & Jurečka, M. (2014). *WSN for traffic monitoring using Raspberry Pi board.* Paper presented at the 2014 Federated Conference on Computer Science and Information Systems.