

Examples of objectives

The aims and objectives of the research presented in this thesis are to introduce multichannel and channel switching assignment in the IEEE 802.11 DCF contention-based MAC protocol.

The research aims and objectives are summarised by the following points:

1. To review the area of MAC protocols to identify related paradigms for contention-based MAC protocols.
 2. To compare IEEE 802.11 and IEEE 802.15.4 MAC protocol to determine the feasibility of IEEE 802.11 being utilised in the future as a medium for wireless sensor networks operating in a high data rate multichannel environment with streaming data.
 3. To use the backoff algorithm of the 802.11 DCF for multichannel assignment and channel switching when a set criterion is met to reduce contention for a single medium, collision and congestion.
 4. To design an efficient and distributed algorithm that overcomes the severe degradation at the sink node when using single radio to switch to multiple channels.
 5. To utilise simulation experiments in order to investigate and analyse the performance of the proposed MC-DCF protocol of multi-channel communication in wireless sensor networks using an NS2 platform.
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- To become familiar with the areas of business processes, process modelling, analysis and redesign, and provide critical literature review
 - To present information connected with BPMN, its rules and significance, and provide critical literature review
 - To determine and choose a key process for company which will be modelled and analysed
 - To model, analyse and evaluate selected process with the use of Business Process Management Notation (BPMN) – both its previous course and current one
 - To assess the consumption of office materials and tools during the examined process and calculate the time of its performance
 - To compare previous methods of process performance with current ones
 - To identify main shortcomings, problems and bottleneck of the examined process
 - To propose further improvements in process and solutions for identified problems and bottleneck

- To reduce the duration of process and consumption of office materials and tools
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1. To investigate the impacts of IT outsourcing has on employee's in an organisation within the UK.
 2. To investigate the impacts that employees have on UK organisation/organisations after IT outsourcing.
 3. To identify an organisation/organisations that use IT outsourcing within the UK.
 4. To research and analyse an organisation/organisations that use IT outsourcing within the UK.
 5. To evaluate whether employees within an organisation/organisations that use IT outsourcing are affected the same way.
 6. To produce and conduct a literature review using previous research about IT sourcing.
 7. To present a clear line of discussion of the impacts of IT outsourcing has on employees and organisation/organisations.
 8. To present Forecasting graphs on future trends of IT outsourcing.
 9. To produce business processes to analyse impact of IT outsourcing.
 10. To employ project management best practice and conduct critical evaluation of project.
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- To develop a detailed project plan for the project
 - To research and determine a suitable methodology for the project
 - To research and analyse current journals and articles and provide critical literature review
 - To conduct primary research into the client to get an insight into the current system and what the new system needs to include
 - To analyse the current system and identify the benefits, limitations and problems of the system
 - To conduct meetings with the client to capture requirements for the new system to be developed
 - To plan, design and develop a functional system meeting clients requirements
 - To test the system to ensure it is functional and meets set requirements
 - To develop a user manual in conjunction with the system for the client
 - To conduct the project under project management best practice and complete a reflective writing on the project completion

