CHAPTER 9

COMPUTER SCIENCE

Doctoral Theses

134. AGARWAL (Manoj)
Multi-Robot Coalition Formation : A Multi-Objective Perspective.
Supervisor : Dr. Naveen Kumar
Th 21341

Contents

1. Introduction 2. Multi-robot coalition formation: Additive environments 3. Multi-Robot coalition formation: Non- additive environments 4. Parallel multi-objective multi-robot coalition formation algorithm 5. Distributed multi-robot coalition formation algorithm 6. A bucket based evolutionary multi-objective optimization algorithm (BE- MOA) 7. Conclusions. Bibliography.

135. AGARWAL (Sumit Kumar)
Context-Aware Trust Based Mobile Recommender System.
Supervisor : Dr. Punam Bedi
Th 21076

Contents

1. Introduction 2. State of the art 3. Context-aware trust based mobile recomender system 4. Generation of Trustworthy Pull recommendations 5. Generation of trustworthy proactive recommendations 6. Experimental study 7. Conclusions. Research publications, annexure and references.

136. ANUJA
Requirement Engineering Process for Multi-Agent Systems
Supervisor : Dr. Vibha Gaur
Th 21080

Contents

1. Introduction 2. Requirements elicitation : User story cards 3.

Defining requirements using agent card 4. Prediction and customization of degree of dependency (DoD) 5. Requirements prioritization : Fuzzy decision-making 6. A fuzzy traceability vector model for requirements validation 7. A knowledge driven approach for specifiyng the requirements of Multiagent system 8. Conclusions and future directions. Research publications and references.

137. BAJAJ (Monika)
Targeted Product Promotion Using Firefly Algorithm on Social Networks.
Supervisor : Dr. Hema Banati
Th 21079

Contents

1. Introduction 2. Social media as an emerging E-marketing tool 3. Firefly approach for product promotion on social networks 4. Assessing user interest through e-market analysis 5. Firefly algorithm based clustering for market segementation 6. An evolutionary approach for optimal seed identification 7. Conclusion and future work. Research publications, references.

138. BANSAL (Manisha)
Approximation Algorithms for Facility Location Problems.
Supervisor : Dr. Neelima Gupta
Th 21073

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1. Introduction 2. Local search technique 3. A $(3+\epsilon)$ Approximation Algorithm for the facility location problem with uniform capacities 4. A $(5+\epsilon)$-Approximation for capacitated facility location 5. A $(5+\epsilon)$-Approximation Algorithm for universal facility location (UniFL) problem 6. Conclusion.

139. BHATIA (Shveta Kundra)
Techniques to Refine Web Session Clustering.
Supervisor : Dr. V.S. Dixit
Th 21342

Contents

1. Introduction 2. Background and literature survey 3. Cluster refinement framework. 4. Knockout refinement unit 5. Modified knockout refinement unit 6. Weighted frequent itemset

refinement unit 7. Evolutionary approaches V/s proposed approaches 8. Validation unit 9. Conclusions. List of publications and references.

140. MARWAHA (Preeti)
Temporal Enhancement of Web Services.
Supervisor : Dr. Hema Banati
Th 21075

Contents

1. Introduction 2. Web service technologies 3. Enhancing web services through WSDL-temporal 4. Customization of WSDL-T web services 5. Composition of temporally customized web services 6. Discovery of WSDL-TC based web services 7. Conclusion and future work. Annexures and references.

141. MEHTA (Harita)
Information Theoretic Approach for Hybrid Recommender System.
Supervisor : Dr. V S Dixit
Th 21074

Contents

1. Introduction 2. Background 3. Hybrid recommender framework 4. Individual recommendation unit 5. Group recommendation unit 6. Individual recommendation refinement unit 7. Group recommendation refinement unit 8. Conclusions. List of publications and references.

142. SHARMA (Neeraj Kumar)
Agent-Mediated Attack-Resilient Reputation System for e-Commerce
Supervisor : Dr. Vibha Gaur
Th 21077

Contents

1. Introduction 2. Overview of reputation systems 3. Agent-Mediated attack-resilient requtation (AMARR) system 4. Seller strategies in AMARR system 5. Attack-Resilience in AMARR system 6. Experimental study 7. Conclusions and future work. Research publications and references.

143. VASHISTH (Pooja)
Trust and Argumentation Based Recommender Systems.
Supervisor : Dr. Punam Bedi
Th 21078

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