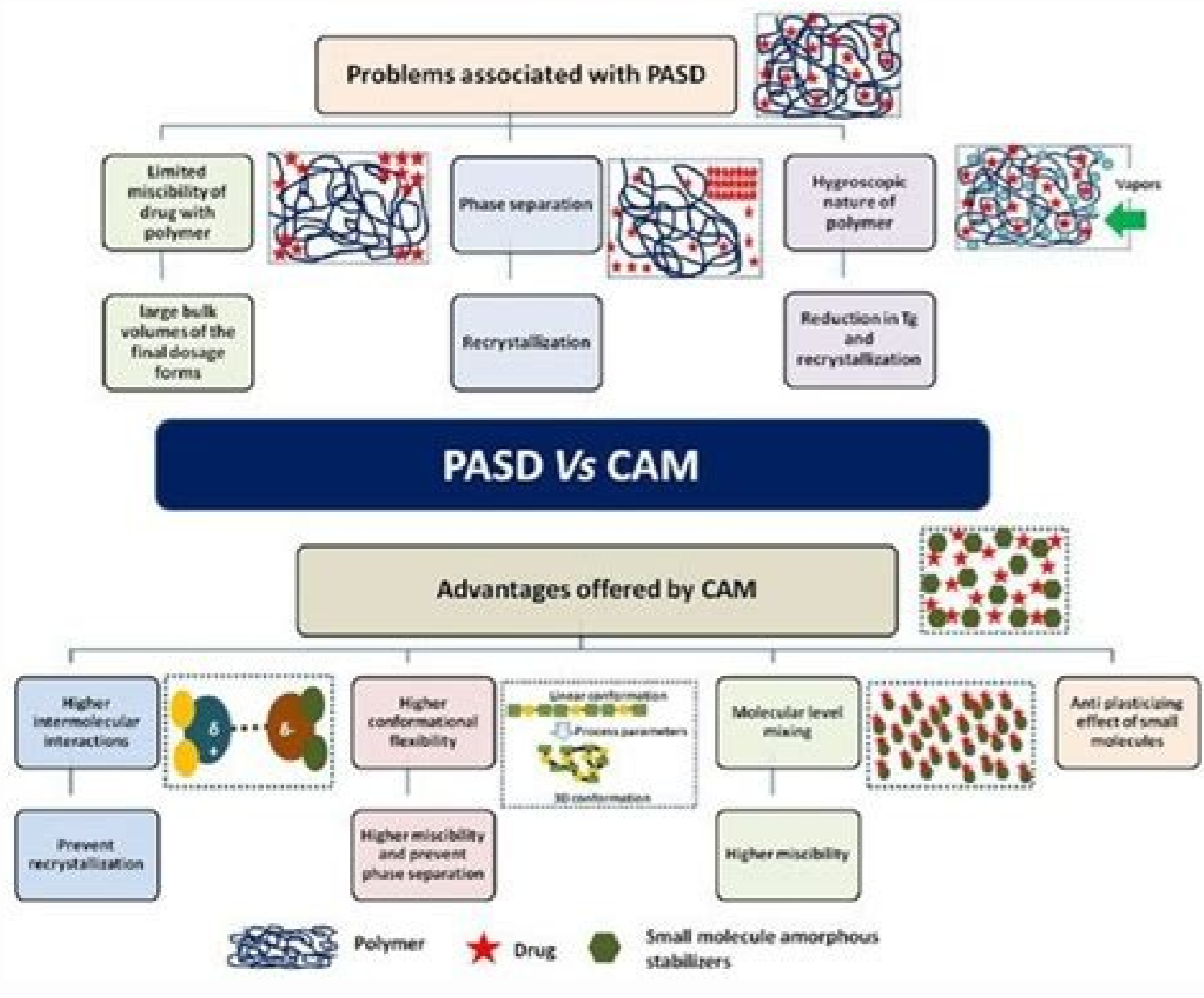


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TO a higher level of intelligence than the individual agents results from the behaviour of the swarm. ANTS 5. I'm equally indebted to Dr. David Peter, the Division of Computer Engineering and other faculty members for giving me such an opportunity to learn and present this seminar. TRL 7. Swarm intelligence is the emerging collective intelligence of groups of simple autonomous agents. A bird in a flock simply tries to stay close to its neighbors, but avoids collisions with them. A single ant finds a prey object that cannot move on its own. Transcript:AMORPHOUS COMPUTING AND SWARM INTELLIGENCEA SEMINAR REPORT Submitted byJEEBHA B PRASADin partial fulfilment for the award of the diploma of BACHELOR OF TECHNOLOGYINCOMPUTER SCIENCE AND INGENGERING SCHOOL OF ENGINEERINGCOCH IN UNIVERS SCIENCE & TECHNOLOGY, KOCHI-682 022NOVEMBER 2008DIVISION OF THE SCHOOL OF INGENERY OF COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY KOCHI-682 022Certified BONAFI hereby certifies that this Report on the seminar AMORPHOUS COMPUTING AND SWARM INTELLIGENCE is the bona fide work of JEEBHA B PRASAD who conducted the seminar under my supervision.Mr. Pramod PavithranDr. David PeterSEMINAR GUIDE Reader Division of Computer Engineering School Of Engineering Cochin University of Science & TechnologyHead of Division Division of Computer Engineering School Of Engineering University Of Science TechnologyKnowledgeFirst of all I thank Almighty for your blessings. How can they coordinate their actions so well? The collective behavior of their system seems to be very similar to that of real ants.1.3.COMPUTING LOVEMorphic computing represents an analog approach to the design of swarm systems. A herd of fish swims, turns around, runs away together, etc. In amorphous computing systems, a colony of cells collaborates to form a itut ittu ad osividnoc Jociteneq ammarginorp etnemacireneg otamaih(ammarginorp nu id enoizerid al ottos eralullectitlum of the colony. The standalone agent does not follow the commands of a leader or global plan. The repulsion ratio results in avoiding collisions and attraction makes the flock retain its shape, that is, copying the movements of neighbors can be seen as a sort of attraction. Although this scenario seems to be well understood in biology, the mechanisms underlying cooperative transport remain unclear. First, the "avoidance rule" says that a body must move away from bodies that are too close, in order to reduce the probability of collisions in the air. Each body is implemented as an independent actor who navigates according to his own perception of the dynamic environment. I extend once again my sincere thanks to all of themJEEBHA B PRASADTABLE OF CONTENTS CHAPTER TITLE PAGE NOLIST OF TABLE LIST OF FIGURES LIST OF ABSTRACT SYMBOLS 1. ACO 2. INTRODUCTION 1. A flock of birds sweeps into the sky. The swarm's behavior helps birds take advantage of several things including protection from predators (especially for birds in the middle of the flock) and food-seeking (as each bird is essentially taking advantage of the eyes of every other bird).Division of Computer Engineering, SOE1Amorphous Computing And Swarm Intelligence1.2. BIOLOGICAL BASES AND ARTIFICIAL LIFEResearchers try to examine how animal collections, such as flocks, flocks and schools, move in a way that seems to be orchestrated. TSP 6. Swarm intelligence is based on onstgimeric principles in order to solve complex problems using only simple agents.Amorphous computing And Swarm intelligence1. A body must comply with the following rules. Each bird can fly into the front, center, or back of the swarm. A type of selorganization emerges from the collection of group actions. And then a group of ants collectively bring back the prey. To sum up, the herd is more than a series of birds; the sum of the actions determines a consistent behavior. PRINCIPLE 2.1. OVERVIEW 2.2. 2.2. Problem solving 2.2.1. Overview 2.2.2. Swarm problem solving 2.2.3. Advantages and disadvantages 2.2.4. Creating swarm systems 2.2.5. Investigation tools 2.2.5.1. Net logo 2.2.5.2. Repastiv IV V VI 1 1 23 3 3 3 5 5 5 6 68 9 9 10Capter No 3.TitlePage No Application 3.1. ACO 3.2. Routing 3.3. Collective Robotics 3.3.1. Introduction 3.3.2. Ants 3.3.3. Swarm-Bots 3.4. MEGLATRONICS FUTURE CONCLUSION APPENDICES REFERENCES APPENDICES1 11 13 15 15 16 17 17 204. 5. List of SL Tables No Table 2.1 Table 2.2 Table 3.1 Table 4.1 Table 4.2 Tile Benefits of Swarm Systems Systems Systems Routing Table for S Node Future Assessment Technology Readiness Assessment. Page n, 7 7 14 18 19List of figures SL No Figure 2.1 Figure 3.1 Title Agent Environment Agent Interaction Routing Network Page No 8 14 locaist of symbols, abbreviations and names! This apparent collective intelligence seems to emerge from what are often large groups of relatively simple agents. ABC 4. There are no known criteria for evaluating the performance of Swarm Intelligence. We call this kind of swarm behavior of aggregate motion. ACS 3. The agents use simple local rules to govern their actions and through the interactions of the whole group, the swarm achieves its goals. A high-level view of a swarm suggests that the n agents in the swarm are working together to achieve intentional behavior and achieve some goal. In addition, engineers are increasingly interested in this type of swarm behavior as the resulting swarm intelligence can be applied in optimization (e.g. in telecommunication systems), the tracking models of robotics in transportation systems and military applications. They lie left in unison, and then suddenly they can do all dart to And go to the ground. Earth. Earth.

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