



Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste)

By Khaled Ghedira

Download now

Read Online ➔

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste)

By Khaled Ghedira

A Constraint Satisfaction Problem (CSP) consists of a set of variables, a domain of values for each variable and a set of constraints. The objective is to assign a value for each variable such that all constraints are satisfied. CSPs continue to receive increased attention because of both their high complexity and their omnipresence in academic, industrial and even real-life problems. This is why they are the subject of intense research in both artificial intelligence and operations research. This book introduces the classic CSP and details several extensions/improvements of both formalisms and techniques in order to tackle a large variety of problems. Consistency, flexible, dynamic, distributed and learning aspects are discussed and illustrated using simple examples such as the n-queen problem.

Contents

1. Foundations of CSP.
2. Consistency Reinforcement Techniques.
3. CSP Solving Algorithms.
4. Search Heuristics.
5. Learning Techniques.
6. Maximal Constraint Satisfaction Problems.
7. Constraint Satisfaction and Optimization Problems.
8. Distibuted Constraint Satisfaction Problems.

About the Authors

Khaled Ghedira is the general managing director of the Tunis Science City in Tunisia, Professor at the University of Tunis, as well as the founding president of the Tunisian Association of Artificial Intelligence and the founding director of the SOIE research laboratory. His research areas include MAS, CSP, transport and production logistics, metaheuristics and security in M/E-government. He has led several national and international research projects, supervised 30 PhD theses and more than 50 Master's theses, co-authored about 300 journal, conference and book research papers, written two text books on metaheuristics and production

logistics and co-authored three others.

 [Download Constraint Satisfaction Problems: CSP Formalisms a ...pdf](#)

 [Read Online Constraint Satisfaction Problems: CSP Formalisms ...pdf](#)

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste)

By Khaled Ghedira

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira

A Constraint Satisfaction Problem (CSP) consists of a set of variables, a domain of values for each variable and a set of constraints. The objective is to assign a value for each variable such that all constraints are satisfied. CSPs continue to receive increased attention because of both their high complexity and their omnipresence in academic, industrial and even real-life problems. This is why they are the subject of intense research in both artificial intelligence and operations research. This book introduces the classic CSP and details several extensions/improvements of both formalisms and techniques in order to tackle a large variety of problems. Consistency, flexible, dynamic, distributed and learning aspects are discussed and illustrated using simple examples such as the n-queen problem.

Contents

1. Foundations of CSP.
2. Consistency Reinforcement Techniques.
3. CSP Solving Algorithms.
4. Search Heuristics.
5. Learning Techniques.
6. Maximal Constraint Satisfaction Problems.
7. Constraint Satisfaction and Optimization Problems.
8. Distributed Constraint Satisfaction Problems.

About the Authors

Khaled Ghedira is the general managing director of the Tunis Science City in Tunisia, Professor at the University of Tunis, as well as the founding president of the Tunisian Association of Artificial Intelligence and the founding director of the SOIE research laboratory. His research areas include MAS, CSP, transport and production logistics, metaheuristics and security in M/E-government. He has led several national and international research projects, supervised 30 PhD theses and more than 50 Master's theses, co-authored about 300 journal, conference and book research papers, written two text books on metaheuristics and production logistics and co-authored three others.

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira Bibliography

- Sales Rank: #18588721 in Books
- Brand: Brand: Wiley-ISTE
- Published on: 2013-03-04
- Original language: English
- Number of items: 1

- Dimensions: 9.50" h x 1.00" w x 6.30" l, 1.25 pounds
- Binding: Hardcover
- 240 pages

 [Download Constraint Satisfaction Problems: CSP Formalisms a ...pdf](#)

 [Read Online Constraint Satisfaction Problems: CSP Formalisms ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Martin Thomas:

Why don't make it to become your habit? Right now, try to ready your time to do the important action, like looking for your favorite guide and reading a guide. Beside you can solve your short lived problem; you can add your knowledge by the guide entitled Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste). Try to the actual book Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) as your pal. It means that it can to get your friend when you feel alone and beside regarding course make you smarter than ever before. Yeah, it is very fortunated to suit your needs. The book makes you far more confidence because you can know every little thing by the book. So , let me make new experience along with knowledge with this book.

Robert McKay:

Have you spare time for a day? What do you do when you have more or little spare time? Yes, you can choose the suitable activity for spend your time. Any person spent all their spare time to take a walk, shopping, or went to often the Mall. How about open or maybe read a book called Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste)? Maybe it is to be best activity for you. You know beside you can spend your time along with your favorite's book, you can smarter than before. Do you agree with the opinion or you have various other opinion?

Jacob Gray:

What do you concentrate on book? It is just for students since they're still students or the item for all people in the world, the particular best subject for that? Just simply you can be answered for that problem above. Every person has distinct personality and hobby for each and every other. Don't to be pushed someone or something that they don't need do that. You must know how great and also important the book Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste). All type of book could you see on many methods. You can look for the internet sources or other social media.

Thomas Towne:

Spent a free the perfect time to be fun activity to do! A lot of people spent their down time with their family, or their particular friends. Usually they undertaking activity like watching television, going to beach, or picnic from the park. They actually doing same task every week. Do you feel it? Will you something different to fill your free time/ holiday? Might be reading a book might be option to fill your totally free

time/ holiday. The first thing that you ask may be what kinds of guide that you should read. If you want to attempt look for book, may be the guide untitled Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) can be fine book to read. May be it is usually best activity to you.

Download and Read Online Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira
#ZFQB6UI27CV

Read Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira for online ebook

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira books to read online.

Online Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira ebook PDF download

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira Doc

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira Mobipocket

Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira EPub

ZFQB6UI27CV: Constraint Satisfaction Problems: CSP Formalisms and Techniques (Iste) By Khaled Ghedira