

## Np Completeness Sjtu

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Advanced Network Laboratory-Shanghai Jiao Tong University  
Balancing Traf?c Load for Devolved Controllers in Data Center Networks Wanchao Liang y, Xiaofeng Gao , Fan Wu , Guihai Chen , Wei Weiz yDepartment of Computer Science and Engineering, Shanghai Jiao Tong University zDepartment of Computer Science, Stanford University lwcallenhome@gmail.com,fgao-xf, fwu, gcheng@cs.sjtu.edu.cn, wwwei2@stanford.edu

Computational Complexity - SJTU

) NP ^P \* P ^NP) NP = P )Necessity:( 2P (NP = P) \* NP = P;NPC ^NP) NPC ^P \* 2NPC) 2P VI. [DPV07]8.3 STINGY SAT is the following problem: given a set of clauses (each a disjunction of literals) and an integer k, ?nd a satisfying assignment in which at most k variables are true, if such an assignment exists. Prove that STINGY SAT is NP-complete.

IEEE TRANSACTIONS ON ... - SJTU

frunzhong.wang,yanjunchi,xkyangg@sjtu.edu.cn Abstract Graph matching refers to ?nding node correspondence between graphs, such that the corresponding node and edge's af?nity can be maximized. In addition with its NP-completeness nature, another important challenge is effec-tive modeling of the node-wise and structure-wise af?n-

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But if any NP-complete problem can be solved quickly, then every problem in NP can, because the definition of an NP-complete problem states that every problem in NP must be quickly reducible to every NP-complete problem (that is, it can be reduced in

polynomial time).

NP-Completeness | Set 1 (Introduction) - GeeksforGeeks

? k. Besides its NP-completeness we can show, by a further refinement of the construction of Papadimitriou and Yannakakis, that the parameterized version is  $W[2]$ -complete. Finally, in Section 7 we mention some open problems, particularly some concerning holes, that is, chordless cycles of length at least 4.

Balancing Traffic Load for Devolved Controllers in ... - SJTU

The key to coping with NP-complete problems in learning of M3 networks is to decompose a large-scale problem into a number of manageable subproblems and to make the learning of large-scale problem emerge from the learning of a number of related small subproblems. 2 Task decomposition

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NP Reduction NP-Completeness Theorem: MCDR is NP-Complete. Proof: We prove by VERTEX-COVER ?p MCDR. Decision Vector Cover : Given a graph  $G = (V, E)$  and an integer  $k$ , does it have a vertex cover  $VC$  with size  $k$ . Then we will construct an instance of MCDR from  $G$  and  $k$ . Computability Theory@SJTU Xiaofeng Gao Reduction Applications 23/36

Welcome :: SJTU Computer Science & Engineering

We prove that LBDC is NP-complete, which might not be easily solved within polynomial time. Then we design multiple solutions for LBDC, including a linear program-ming with rounding approximation, three centralized greedy algorithms, and one distributed greedy algo-rithm. Using these solutions, we can dynamically balance

On Parameterized Path and Chordless Path Problems - SJTU

[ANL][WVB] 10 NP-Complete Problems from Graph Theory 2018-03-21 13:39. Cathy WVB Hi, everyone, I would like to introduce 10 NP-complete problems this night . Yuxiang Liu. 2018.3.21. Attachments; NP-complete from Graph Theory\_YuxiangLiu.pdf ... Website Information: tianshilei@sjtu.edu.cn.

Emergence of Learning: An Approach to NP-complete ... - SJTU

is NP-complete. Then, a practical approach is proposed, which can serve people anywhere and anytime. The simulation results show that, to achieve the same performance (e.g., total time, waiting time, and travel time), the number of vehicles in the PV system can be reduced by around 90% and 57% compared with the

frunzhong.wang,yanjunchi,xkyangg@sjtu.edu.cn arXiv:1904 ...

MoE Key Lab of Artificial Intelligence, Shanghai Jiao Tong University froucherwang,yanjunchi,xkyangg@sjtu.edu.cn Abstract

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Graph matching refers to finding node correspondence between graphs, such that the corresponding node and edge's affinity can be maximized. In addition with its NP-completeness nature, another important challenge is effec-

Balancing Devolved Controllers Problem Description ... - SJTU

this paper, we study the problem of Maximizing Reliability of Lifetime Constrained data aggregation trees (MRLC) in WSNs. Considering the NP-completeness of the MRLC problem, we propose an algorithm, namely Iterative Relaxation Algorithm (IRA), to iteratively relax the optimization program and to

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7.4 NP-COMPLETENESS 305 PROOF IDEA Showing that SAT is in NP is easy, and we do so shortly. The hard part of the proof is showing that any language in NP is polynomial time reducible to SAT. To do so, we construct a polynomial time reduction for each language  $A$  in NP to SAT. The reduction for  $A$  takes a string  $w$  and produces a Boolean formula

On Maximizing Reliability of Lifetime Constrained Data ...

Today I am going to introduce 10 NP-Complete Problems. Zixuan Zhang ... Website Information: tianshilei@sjtu.edu.cn. Scan the QR code to follow the official account of ANL on Wechat. ...

NP-Completeness

2. NP Completeness 3. Space Complexity 4. Circuit Complexity 5. Polynomial Hierarchy 6. Randomized Computation 7. Complexity of Counting 8. Expander and Derandomization 9. Interactive Proof System 10. PCP Theorem 11. Cryptography 12. Quantum Computing (PDF)

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NP-completeness applies to the realm of decision problems. It was set up this way because it's easier to compare the difficulty of decision problems than that of optimization problems.

Advanced Network Laboratory-Shanghai Jiao Tong University

NP-completeness The theory of NP-completeness is a solution to the practical problem of applying complexity theory to individual problems. NP-complete problems are defined in a precise sense as the hardest problems in P.

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NP-completeness was introduced by Stephen Cook in 1971 in a foundational paper. Leonid Levin independently introduced the same

concept and proved that a variant of SAT is NP-complete. 1.S. Cook. The Complexity of Theorem-Proving Procedures. STOC, 1971.  
2.L. Levin. Universal Search Problems. PINFTRANS: Problems of Information Transmission, 1973.

NP-completeness - Wikipedia

NP-Completeness P NP NPC Theorem: Let  $L_1$  and  $L_2$  be languages. If  $L_1 \in P$  and  $L_2$  is NP-hard, then  $L_1$  is NP-hard. Theorem: Let  $L_1$  and  $L_2$  be languages where  $L_1 \in NPC$  and  $L_2 \in NP$ . If  $L_1 \in P$ , then  $L_2 \in NPC$ .

NP-Completeness

It mainly focuses on the design techniques of various algorithms like divide-and-conquer, greedy approach, dynamic programming, graph algorithm, etc; and the analysis methodology of corresponding designs like amortized analysis, time/space complexity, correctness proof, NP-completeness, and approximations.

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