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(prisoner's dilemma game) (game theory) :
(petrol (social dilemma game) (chicken game)
.waste)

(in regularly)

(2002) (:
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(game theory)

(1373) .

(VonNeumann)

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(38 :1381)".

(1995)

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(player)

(strategy)

(outcome)

(payoff)

(1974).

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(outcome)

(preference ordering)

(individually rational)«

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(1974)

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(cooperation)

(defection)

(defective)

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 . (free-riding)
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 :(Punishment)
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 :(Sucker)
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 . S P R T
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(individualistic) (2000) (cooperative) (2001) (altruistic) :
 (competitive)

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(prisoner's dilemma game)

(chicken game)

(trust game) (assurance game) -

(coordination game)

(public good game) (social dilemma game) -

(common resource game)

(ultimatum game)

(dictator game)

1-2

RAND (Melvin Dresher) (Merrill Flood) 1950

» () (Albert Tucker)

: (85 :1999) (1998) . «

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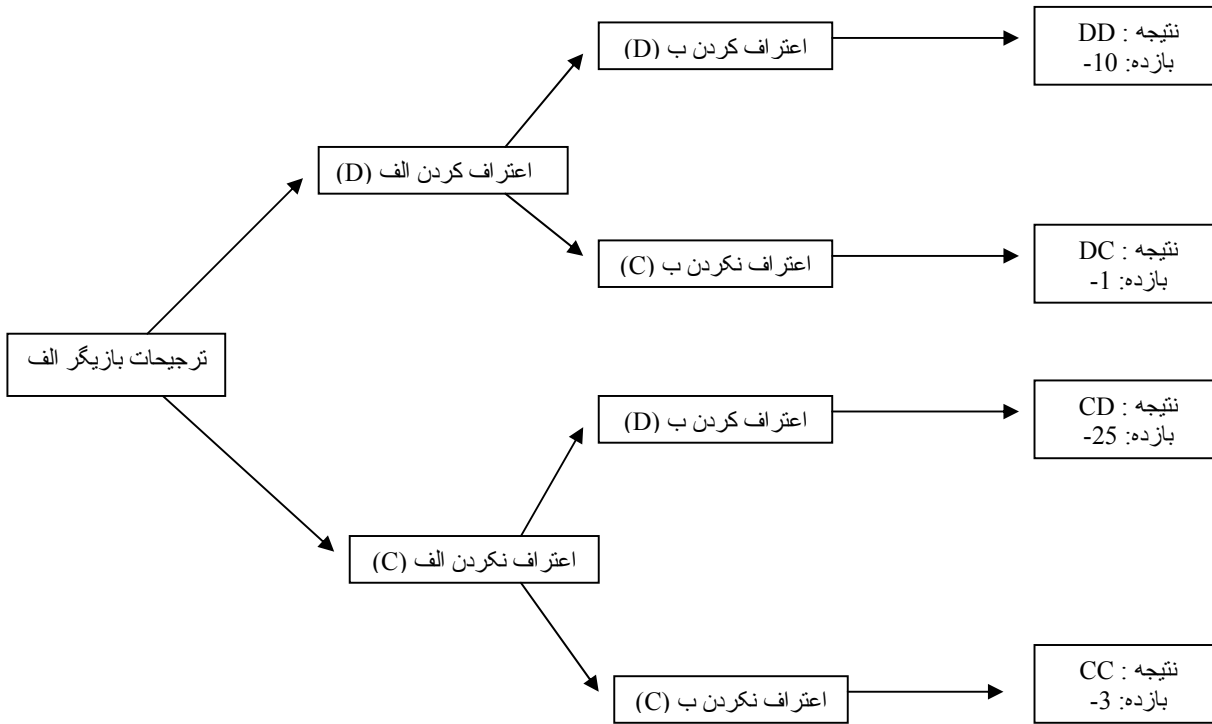
(DC T)

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: (1999)

(infinite repetition) (finite repetition) : -

. (games of unknown length)

. ((1373)) (repeated play)

(C) TFT) (tit for tat « » « »

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. (one-shot)

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(formal) .

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. (swing producer)

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(rebel without cause) « » (dare) « »

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 .((dedicent))
 (1995) R>T R>P>S :
 (trust
 game)

(1998)

4-2

P>S :

(1995) R=P R>T

(T,S,P,R)

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(formal)

((proposer))

((responser))

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(1999) .

(1998)

(bounded self-interest)

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(stake)

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(sunk cost)

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3/21

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MIT

(reputation)

(2001

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(one-shot)

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(2001)

5-2

(dictator)
(2001).

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(2000 2000). (N-person prisoner's dilemma game)

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(1995).

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(take some) « » (give some) « » (1998)

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give some

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take give some

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(1999)

(1997

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(Bonus Point Ballot)

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(zero-sum game)

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(infinite reputation game)

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(1381/2/11)".

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(public goods)

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(dilemma nested inside dilemmas)

(second-order collective dilemma)

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(egoistic)

(service announcement)

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[14 march 2003] <http://www.irangreenpen.com/news/economic/11281/e0065.htm>
[online] : (14 1381) []
[14 march 2003] <http://www.irangreenpen.com/news/economic/14281/ec0075.htm>
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[14 march 2003] <http://www.irangreenpen.com/news/economic/15281/c0084.htm>
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:(1383)
:(1373)
8 .(24 1382).

Axelrod, R. (1984) .**The Evolution of Cooperation**. New York :Basic Books.

Bonacich, P. F. (1995) .Four kinds of social dilemmas within exchange networks . **Current Research in Social Psychology** . 1(1).

Bravenet Web Services [homepage] (2003 14 march). [online] : <http://pub3.bravenet.com/minipoll> [14 march 2003]

Careter, P. (1997) . **The Student's Dilemma:The Effect of Individual Decision Making on Group Dynamics**. www.magnoli.net/~leonf/sd/sd.html

Chaitas, S. & A. Solodkin & J. Baron (1998) .**Student's Attitudes Toward Social Dilemmas in Argentina, Mexico, and The United State**. <http://www.sas.upenn.edu/~jbaron/virt.htm>. (document last modify date January 27, 1998).

- Dean C. (1997) .A Social Dilemma: Individual Gain or Common Good?. **The Psychology Teacher Network May/June.**
- Dixit, A. & S. Skeath (1999) .**Games Of Strategy.** New York: W.W.Norton & company.
- Eek D. (1998). To work or not to work? A social dilemma analysis of health insurance. **Gateborg Psychological Reports 28 No. 3.**
- Felkins, L. (1995).**The Social Dilemma.** www.magnolia.net/~leonf/sd/sd.html
- Friedrichs, J. & K. Opp (2002) . Rational behaviour in Everyday Situations. **European Sociological review,** 18, 4: 401-415.
- Hardin, G. (1968) .The tragedy of the commons. **Science** 162:1243-1248
- Henrich, J. & N. Smith (1999) . **Culture matters in bargaining and cooperation: cross-cultural evidence from Peru, Chile and the U.S** eres.bus.umich.edu/docs/fanum.html
- Jolls, C. & Sunstein, C. R. & Thaler, R. (1998) .A Behavioral Approach To Law And Economics. **Stanford Law Review 50:**1471- 1550.
- Kerr N. L. (1983) .Motivation losses in small groups: A social dilemma analysis. **Journal of Personality and Social Psychology.** 45(4): 819-828.
- Kimura, K. (1993) . Perception of Pollution as a Social Dilemma. IN: Dept Sociology Shizuoka U, 422 Japan. **Journal of Mathematical Sociology;** 18(1) : 81-91.
- Kollock P. (1998) .Social dilemmas: The anatomy of cooperation .**Annual Review of Sociology 24.** pp182-214.
- Markoczy L. (2001). **Cooperative Choice: Cooperative and non-cooperative motives and their consequences** .http://www.goldmark.org/livia/
- Prosch, B. & S. Petermann (1999) .Commitments in a 2 x 2 Chicken Game: Some Theoretical Considerations and Experimental Results. **The Agora** (Newsletter of the Rational Choice Section of the American Sociological Association and the Research Committee on Rational Choice of the International Sociological Association) 8: 1. pp. 5-6.
- Rapoport, A. (ed.) (1974) .**Game Theory As A Theory Of Conflict Resolution.** Boston: D. Reidel.
- Reber, S. (1995) . Social Dilemma. In: **The Penguin Dictionary of Psychology.**
- Stout, L. A. (2001) .Other-Regarding Preferences and Social Norms. **Gerrgetown Law and Economics Research Paper.** No. 265902.
- Sugiman, T. (1998) .Group Dynamics in Japan. **Asian Journal of Social Psychology 1(1):**51-74.
- Van Lang P. & M. Van Vugt & D. De Cremer (2000) . Choosing Between Personal Comfort and the Environment. . In: Van Vugt M. & M. Snyder & T. R. Tyler & A. Biel (eds.) .**Cooperation in Modern Society: Promoting The Welfare of Communities States and Organizations.** London: Routledge. pp. 45- 63.