



Spinoza (1632-1677)

A Political Treatise

"For they [philosophers] conceive of men, not as they are, but as they themselves would like them to be. Whence it has come to pass that (...) they have never conceived a theory of politics, which could be turned into use (...)"

"And that I might investigate the subject-matter of this science with the same freedom of spirit as we generally use in mathematics, I have laboured carefully, not to mock, lament, or execrate, but to understand human actions; and to this end I have looked upon passions, such as love, hatred, anger, envy, ambition, pity, and the other perturbations of the mind, not in the light of vices of human nature, but as properties." [my emphasis]

[Schumpeter: every economist ought to be able to repeat it on his deathbed]

Ethics

Rigorous analytical treatment of emotions.











References to Emotions in Economics

models of specific emotions

- regret [Bell 1982, Loomes & Sugden 1982]
- disappointment [Bell 1985, Loomes & Sugden 1986]
- guilt [Erard & Feinstein 1994]
- envy [Kirchsteiger 1994]
- anxiety [Wu 1999, Caplin & Leahy 2001]

more general studies

- Smith (The Theory of Moral Sentiments 1759/1790)
- Simon (1967)
- Scitovsky (1976/1992)
- Hirshleifer (1987)
- Frank (1988)
- Elster (JEL 1998)
- Camerer et al. (JEL 2005)

experimental studies

- self-reports: Bosman & van Winden (2002), Gächter & Herrmann (2006)
 - SCR: Ben-shakhar et al. (2005), Camille et al. (2004)
- neuro-imaging: Sanfey et al. (2003), De Quervain et al. (2004)











- develop through prolonged interaction
- decay over time
- sentiments generated by success/failure of interaction [Homans 1950, Granovetter 1973, Baumeister & Leary 1995, Lawler et al. 1995]





main results

- > unique and stable social-ties equilibrium
- ➢ if equal preferences and income:
 - ties symmetric & positive $(\alpha_{hk} = \alpha_{kh} > 0)$
 - g(ties) > g(standard)
- ➢ if different preferences or incomes:
 - ties asymmetric (can be negative)
 - if incomes different: g(ties) ≥ < g(standard)

also

- > public provision can lead to *lower total* provision !
 via negative effect on ties → crowding out of intrinsic motivation
- reduction not quickly taken over by private provision ties formation takes time









g-test) and earr Sign.
Sign.
6 0.000
6 0.015
6 0.029
6 6 6















and exp	pected take	rate	
		out <i>not</i> the fa	air take rate
TABLE C2 - ORDERED PROBIT MODE	L ESTIMATING THE I	NTENSITY OF ANGER-	LIKE EMOTIONS
Variable	Coefficient	Std. Error	p value
Take Rate	0.0146	0.0071	0.039
Take Rate – Expected Take Rate	0.0143	0.0039	0.000
Take Rate – Fair Take Rate	0.0002	0.0037	0.957
Economist	0.2178	0.2007	0.278
Female	-0.3185	0.1930	0.099
Friends	-0.0018	0.1891	0.992
Number of obs. = 126		$LR \chi^2(6) =$	= 47.49
Log likelihood = -322.955		$Prob > \chi^2$	= 0.000













	coef.	st.err.	# obs. and fit		(8	Seemingly	unrelated	regression	1s)	
general well-being interaction success	.00099** (0.000)	.00019	n = 52	A and B players towards each other (#a equations) a unrelated third player (#b equations)) and
constant	-1.0332	1.4152	adj. $R^2 = .35$		(1a)	(1b)	(2a)	(2b)	(3a)	(3b)
	(0.405)			Initial	.4870**	.4601**	.3926*	.3910**	.3937*	.3910*
anger				angle	(.003)	(.000)	(.014)	(.000)	(.014)	(.000)
interaction success	00072**	.00016	n = 52	Interaction	.0549		.0200			
	(0.000)			success	(.320)		(.751)			
constant	8.0992**	1.2272	adj. $R^2 = .27$		()		()			
	(0.000)			Sadness			-1.499	1.034	-1.684	1.034
joy							(.526)	(.471)	(.463)	(.471)
interaction success	.00065**	.00015	n = 52	Fear			.5779	-3.223	.4419	-3.223
constant	(0.000)	1 1 9 9 8	odi $P_{-}^2 = 97$				(.855)	(.100)	(.888)	(.100
constant	(0.349)	1.1228	auj. $R^{-} = .27$				()	()	()	(
	(010 10)			Guilt			4.504^{*}	2.296	4.612^{*}	2.296
guilt	00000	00010	50				(.050)	(.106)	(.043)	(.106)
interaction success	.00020 (0.006)	.00012	n = 52	Surprise			3 808*	- 1007	3.780*	- 1003
$\operatorname{constant}$.26935	.90073	adj. $R^2=.04$	omprior			(.022)	(.923)	(.023)	(.923)
	()			Contempt			-5.075 **	0354	-5.120**	0354
irritation	00094**	00017	m E9				(.007)	(.976)	(.006)	(.976)
interaction success	00084	.00017	n = 52							
constant	9.4749**	1.2504	adj. $R^2 = .33$	Happiness			6068	2.3760	3247	2.3760
	(0.000)						(.790)	(.071)	(.878)	(.071)
surprise				Constant	-10.43	2.602	-3.713	-6.678	.7016	-6.678
interaction success	00031	.00019	n = 52		(.450)	(.264)	(.837)	(.351)	(.951)	(.351)
	(0.113)			-2						
constant	5.5645**	1.4368	adj. $R^2 = .03$	R^{*}	.1845	.2986	.3608	.3911	.3586	.3911
	(0.000)			N^a	52	52	52	52	52	52
contempt				Model comp	arisons	Model 1	vs Model 2	Model 2	vs Model 3	
interaction success	00049**	.00017	n = 52	LR γ^2 .		23	3.20	.0	100	
	(0.005)	1.0500	J D2 10	n-value		0	275	7	514	









Welfare economic issues
 Emotional hazard
risk of welfare loss due to emotional responses
- even if lump-sum taxation!
- morals need not be involved [moral hazard as special case]
 Social ties → intrinsic motivation for cooperation social capital intervention may cause crowding-out / crowding-in influence of mobility & migration
 Decision utility vs. experienced utility [Kahneman et al. 1997] anticipated emotions differ from experienced emotions hot-cold empathy gap Adam Smith (TMS): ambition → industry → wealth … not happiness!



various complementary tools available

Modeling possible

systems approach required

properties emotions to be studied

... not just utility function tinkering











Public Good characteristics: - no one can be excluded - fully consumed by all (no rivalry in consumption) example of public good experiment (voluntary provision) · 2 players: A and B • each endowment of 10 euros • to be allocated to a *private account* and/or a *public account* (public good) · each euro put into the private account pays 1 euro each euro in the public account pays 0.70 euro, to both players • Suppose contribution A (B) to the public good is $c_A(c_B)$ euro then: payoff A = $(10 - c_A)1 + 0.70 (c_A + c_B)$, and similarly for B if rational, selfish (payoff maximixing) players: $c_A = c_B = 0$ (A,B: 10 euro) efficient (welfare maximixing) outcome is: $c_A = c_B = 10$ (A,B: 14 euro) Important: - return priv acc > return pub acc for each player - return priv acc < return pub acc summed over all players