

Carbon Capture and Sequestration: How Much Does this Uncertain Option Affect Near-Term Policy Choices? Valentina Bosetti and Laurent Gilotte

NOTA DI LAVORO 86.2005

JUNE 2005

CCMP – Climate Change Modelling and Policy

Valentina Bosetti, *Fondazione Eni Enrico Mattei* Laurent Gilotte, *CIRED*

This paper can be downloaded without charge at:

The Fondazione Eni Enrico Mattei Note di Lavoro Series Index: http://www.feem.it/Feem/Pub/Publications/WPapers/default.htm

Social Science Research Network Electronic Paper Collection: http://ssrn.com/abstract=755424

The opinions expressed in this paper do not necessarily reflect the position of Fondazione Eni Enrico Mattei Corso Magenta, 63, 20123 Milano (I), web site: www.feem.it, e-mail: working.papers@feem.it

Carbon Capture and Sequestration: How Much Does this Uncertain Option Affect Near-Term Policy Choices?

Summary

One of the main issues in the climate policy agenda, the timing of abatement efforts, hinges on the uncertainties of climate change risks and technological evolution. We use a stochastic optimization framework and jointly explore these two features. First, we embed in the model future potential large-scale availability of Carbon Capture and Storage (CCS) technologies. While non-CCS mitigation that reduces fossil energy use is modelled as exerting inertia on the economic system, mainly due to the durability of the capital in energy systems and to technology lock-in and lock-out phenomena, the implementation of CCS technologies is modelled as implying less resilience of the system to changes in policy directions. Second, climate uncertainty is related in the model to the atmospheric temperature response to an increase in GHGs concentration. Performing different simulation experiments, we find that the environmental target, derived from a cost-benefit analysis, should be more ambitious when CCS is included in the picture. Moreover, the possible future availability of CCS is not a reason to significantly reduce near-term optimal abatement efforts. Finally, the availability of better information on the climate cycle is in general more valuable than better information on the CCS technological option.

Keywords: Climate change, Uncertainty, Sequestration, Cost-benefit analysis

JEL Classification: D62, D63, H23, Q29

Address for correspondence:

Valentina Bosetti Fondazione Eni Enrico Mattei C.so Magenta, 63 20123 Milano Italy Phone: +39 0252036983 Fax: +39 0252036946 E-mail: valentina.bosetti@feem.it

1 Introduction

It has become fashionable to assess the potential contribution of Carbon Capture and Sequestration (CCS) technologies to the optimal mitigation of carbon dioxide emissions that is intended to avoid future, dangerous climate change. CCS attracts a lot of attention because it could allow "to reduce our CO2 emissions to the atmosphere whilst continuing to use fossil fuels" [10]. More precisely, analyses of the optimal timing of CO2 abatement suggest that, after 2050, carbon dioxide emissions could be significantly and increasingly curbed thanks to sequestration [22, 1]. Results in these publications show that, in 2100, sequestration could account for around 40% of the reduction required to stabilize carbon atmospheric concentration to 550 ppmv. In particular, Akimoto et al. [1] present a sensitivity analysis and suggest that this 40% contribution is relatively robust against changes in the CCS costs. In addition, few abatement efforts should be undertaken before 2030 to reach the 550 ppmv stabilization target [22, 1]. This result is confirmed even under an hypothesis of high baseline emissions [1]. Of course, deferring emissions reduction is politically attractive for it avoids requiring explicit efforts from the populations. To policy makers who tend to oppose the notion of early abatement, CCS technologies offer a credible argument for postponing efforts.

However, the opportunity offered by CCS should be envisioned in a perspective broader than that of a cost-effi ciency analysis as taken till now. If globally, large scale implementation of carbon sequestration could have a signifi cant impact on our future emissions, should not we take it as a chance to adopt a climate target tighter (and safer) than the doubling of pre-industrial atmospheric carbon dioxide (550ppm)? Previous cost-benefi t analyses of CCS in top-down integrated assessment models have focused on forest-based sequestration or on the non-permanency of sequestration [15, 8, 13]. In particular, in Keller et al. [13] the impact on the optimal carbon tax of the availability of CCS technologies is considered and appears to be insignifi cant before 2100; this also suggests that abatement policies before that date should remain unchanged. However, Keller et al. assume a rather high marginal cost for CCS (100 USD per ton C) which delays the adoption of the option later into the future than more recent contributions suggest [1, 22].

In addition to this, the prevailing scientific uncertainties, in particular about the climate, have implications affecting the optimal strategy for curbing greenhouse gases emissions (see for instance Nordhaus [18, chapter 8], and also [21, 14, 20, 12]) and should be included in the analysis. How largely does CCS future availability impact on the optimal hedging policy?

Finally, CCS singles out from mitigation actions, such as the reduction of energy demand and the switching towards carbon-free energy, that have lasting effects on the future energy input and emission output of the economy (see for instance [5]). CCS implementation does not carry as much transformation of the energy system since it is more like an end-of-pipe activity that can be easily interrupted in the future if global warming concerns fade out. Inertia of energy production and consumption has been pointed to be of concern for defining the hedging policy against the risks of the evolution of the climate [7]. When relying on both CCS and other mitigation options, the optimal hedging policy should therefore account for their dissimilar lasting effects on greenhouse gases emissions.

This article proposes to assess the relevance of the future availability of CCS in the designing of near-term (fi rst decades) abatement policy and in the choice of a climate target. The originality of the approach taken here stands on the fact that the analysis relies on a cost-benefit top-down integrated assessment model, that allows to represent inertia of carbon emission trends and sequential decision in the face of uncertainty and learning about climate risks. This model, named the DISCERNI model¹ is derived from DICE–99 [19].

A number of numerical simulation experiments have been undertaken. In particular, simulation experiments show that two main conclusions can be drawn:

(a) The environmental target that can be derived by applying a Cost-Benefit analysis should be more ambitious (stringent) if CCS is considered as an option that might become available.

(b) The possible future availability of CCS is not a reason to significantly reduce the near-term abatement efforts that would be optimal with no CCS.

We begin with a description of the model in Section 2. Section 3 describes the different scenarios simulated and presents the main results. Section 4 concludes.

2 Model and Simulations Description

The model we used, DISCERNI, is based on the latest version of Nordhaus' DICE [19], and it is an optimal economic growth model of the global economy that includes a climate module linked to carbon emissions deriving from the economic activity. DISCERNI departs from the original DICE in order to account for some key features that are particularly relevant for the purpose for our analysis. In particular, it is structured in order to allow for sequential revision of decisions in the face of uncertainty and learning about climate risks. To this end, it is formulated as a probabilistic optimization problem, which maximizes the expected utility of consumption. After the date of learning, expected utility is conditional on the

¹This name is a foreign acronym for 'Double uncertainty on the climate and on the endogenous reduction of carbon itensity'. Only one uncertainty, climate uncertainty, is considered in this article.

knowledge gained. This approach was also used in previous studies as in Nordhaus [18, chapter 8] and in Nordhaus and Popp [20]. The other main change is that the model accounts for technological inertia, a feature that appears to play a significant role in shaping optimal mitigation strategies (see for example Ha-Duong et al. [7]). We represent inertia by making future carbon intensity depending on past abatement efforts whether a constraint on emissions is still active or not, as described in [4] where a calibrated extension of the representation introduced in [9] is proposed.

Finally, and this is the main novelty presented in the paper, as an alternative to traditional abatement effort we allow in the model the possibility of carbon capture and geological sequestration (CCS).

For a formal description of the model the reader is referred to the appendix where model equations are set out. In particular, emissions are modelled as proportional to gross economic output and the carbonization ratio is decreasing over time. However, the central planner can choose the level of emissions through a variable representing the rate of mitigation. This abatement rate is defined in the model as μ ; to this is added an alternative decision variable, μ^{CCS} , accounting for the abatement rate due to CCS technologies. CCS is modelled as to produce an impact on the deriving structure of the economy different from that of mitigation. Finally, while the costs of abatement through mitigation remain unchanged compared to the DICE model, CCS marginal costs are different.

The current estimated costs of CCS are rather high. While injection costs are variable and extremely dependent on the reservoir type and on local condition [3], the costs for capture and transport represent the largest part. They are estimated between 35 and 264 USD per ton C for CO2 capture and transport from power plants [22]; for the cement industry, the range is 183–917 USD/tC [10]. Furthermore, costs for capture and transport would decrease through the century, mainly due to learning-by-doing. Besides, the physical potential for storage could be very large: for underground storage² alone, global estimates range between 960 and 1,450 GtCO2 (40–390 GtC), while, the capacity of deep saline aquifers is estimated between 6,000 and 10,000 GtCO2 (1,600–2,750 GtC) [Table TS5, IPCC 2005 Technical Report on CCS].

In the model, costs of CCS are assumed to be quadratic in the level of effort with a linear component of 10 USD/tC and marginal costs increasing up to 400 USD, as proposed in ³ by R. Gerlagh and B. van der Zwaan. We take 10 GtC per year as the maximum volume of CCS (corresponding to the marginal cost of 450 USD/tC). Besides, no leakages or auto-consumption of energy are assumed for

²In porous and permeable reservoir stocks, depleted oil and gas fields, and coal beds [10].

³R. Gerlagh and B. van der Zwaan, 2004, presentation at the 2nd international workshop on integrated climate models: an interdisciplinary assessment of climate impacts and policies. 29–20 November 2004, Trieste. 'Instrument choice for a deep cut in carbon dioxide emissions'.

CCS.

Before heading to the results of the simulated policy scenarios, we present in detail the relevant features of the model.

Path-dependency of emissions to past abatement and CCS

In any time period t, the economy tends to emit σ_t units of GHGs per unit of gross output. Emissions to the atmosphere can be reduced either by changes in the production and consumption (for example reducing the input of primary carbon energy) or by capture and sequestration. We denote by μ_t the rate of emission control through economic structural changes and by μ_t^{CCS} the rate of emissions control derived from CCS technologies. As a result, the number of units of GHGs emitted per unit of gross economic output becomes $(1 - \mu_t - \mu_t^{CCS})\sigma_t$ (where $\mu_t + \mu_t^{CCS} \leq 1$).

CCS technologies, on the one hand, and efforts to reduce primary fossil energy consumption, on the other hand, have contrasting impacts on the economy in the long term. Efforts to use less fossil energy imply changes that will last for some time into the future (think for instance to non fossil capacities for electricity production). Therefore, efforts in period t also contribute to the decrease of future trends of uncontrolled GHG emissions⁴ per unit of output, $\sigma_{t+1}, \sigma_{t+2}, \ldots$ The advantage of CCS is precisely to avoid such deep and structural changes in the economy that would possibly require costly investments and transformations of consumption habits. CCS efforts at time t do not modify the fossil consumptions but prevent their emissions from spreading and accumulating in the atmosphere. Therefore, in contrast with other mitigation options, investments in CCS technologies at time t have no impact on the future rate of uncontrolled emissions per unit of output.

To portray this in the model, the uncontrolled carbon intensity, σ_t , is defined as a state variable which depends on previous period non-CCS reduction efforts, on previous period uncontrolled intensity and on an exogenous trend. We follow [4] for the description and calibration of the law of motion for σ_t , which is given in the following equation:

$$\sigma_{t+1} = (1-e)\sigma_{t+1}^0 + e\sigma_t \frac{\sigma_{t+1}^0}{\sigma_t^0} (1-\zeta\mu_t),$$
(1)

where the exogenous trend, σ_t^0 , starting at σ_0^0 , represent the baseline carbon intensity level, when no control efforts are implemented; μ_t is the decision variable defining the rate of abatement; e and ζ are parameters defined on the interval

⁴Emissions that are produced at t + 1 and in subsequent periods in the case when any policy constraining emissions is removed at t + 1.

[0, 1]. In particular, *e* measures the relative importance of the exogenous versus the endogenous part of the process and ζ the share of abatement effort having a long-lasting effect. Conversely, in the DICE model, σ_t is an exogenous parameter fixed to its baseline level, $\sigma_t = \sigma_t^0$; this leads to an overestimation of the optimal emissions, see [4].

The Treatment of Uncertainty

Let us now discuss the issue of uncertainty on the climate. Climate uncertainty is captured by recognizing in the modelling design that today we ignore the true value of the 'climate sensitivity' parameter, i.e. the elevation in temperature for a doubling in GHGs atmospheric concentrations. While yet unknown, the IPCC [11] reports that the value of the climate sensitivity parameter can be included between a range of 1.4 and 4.5 deg C.

Climate sensitivity is represented by a random variable λ and the model is designed to solve the maximization of the discounted expected utility of consumption (see Appendix B). Once information is obtained, variables in subsequent periods depend on the possible values of the observation.

We approximate uncertainty through a discrete probability implying three states of nature each characterized by a value of the 'climate sensitivity' parameter. The three sample values are chosen in order to offer the best compromise between diversity and 'plausibility' as suggested by Ha-Duong [6]. The samples proposed result in a low ($T_{2x} = 1.4 \deg C$), a high ($T_{2x} = 4.0 \deg C$) and a central ($T_{2x} = 2.9 \deg C$) climate sensitivity. The central value (2.9 deg C) happens to be the parameter value retained in the original DICE 99 model. We have assumed equal probabilities of 33% for these three samples⁵

3 Policy simulations

While our goal is to assess within a cost-benefit model whether the contribution of CCS should be seen as a tool to limit more potential climate damages or as a way to avoid some abatement efforts, it is instructive to start by bringing forward the effect of including CCS into the cost-efficiency version of the model. This version includes the usual exogenous concentration target of 550 ppmv and does not consider climate damages, in order to provide a complete picture of the climate policy cost.

⁵A uniform probability distribution for these three values of the climate sensitivity belongs to the set of credible probability distributions determined by Ha-Duong [6] using the data on expert's opinion collected by Morgan and Keith [16].

3.1 Cost-efficient policy, the 550 ppmv target

Let us begin by describing the optimal policy that allows to stabilize carbon atmospheric concentration at 550 ppmv. No climate damages enter the objective function and, since the target refers to carbon concentration, uncertainty on the evolution of the temperature does not matter.

When the CCS option is not available, in the DICE model, as well as in the DISCERNI model, the levels of abatement required are quite low. This mainly derives from the fact that baseline emissions grow moderately and reach 15 GtC in 2100, which is a relatively low level when compared with the B2 marker scenario of IPCC SRES [2, 17], where emissions grow over 23 GtC in 2100. Marginal abatement costs are also quite low, and remain under the threshold of 10 USD/tC until 2040 in DICE and until 2070 in DISCERNI. When CCS is available, it enters only after the 10 USD/tC threshold is reached. As a consequence, cumulated sequestration by 2100 is modest (55 GtC in DICE, 7.8 GtC in DISCERNI).

DISCERNI model				
	2000	2010	2020	2050
Reduction from baseline, ex	cept CC	CS(MtC))	
CCS available from 2030	117	189	288	812
CCS unavailable	133	214	324	894
Δ % CCS vs. no CCS	-12%	-12%	-11%	-9 %
CCS (MtC)	n.a.	n.a.	n.a.	0
DICE model				
	2000	2010	2020	2050
Reduction from baseline, ex	cept CC	CS(MtC))	
CCS available from 2030	72	130	221	873
CCS unavailable	94	169	287	1,132
Δ % CCS vs. no CCS	-23%	-23%	-23%	-23%
CCS (MtC)	n.a.	n.a.	n.a.	88

Table 1: Effect of CCS availability on cost-efficient abatement. 550 ppm target. DICE and DISCERNI models.

However, CCS availability allows to bypass a significant share of the modest reduction efforts engaged in 2000–2029 (see Table 1 for a summary of the main results). Thanks to future CCS availability, 10 to 20% of those earlier period efforts can be bypassed⁶. Abatement costs decrease even more dramatically (be-

⁶For a better comparability with the next section, we have also performed this comparison

cause the cost function is a power function): in 2000, abatement costs are reduced by roughly 20% in the DISCERNI model and by 40% in the DICE model.

The 550 ppmv target is central in the debate of mitigation policies. It also turns out to be loosely related to the cost-benefit analysis of the DICE model; in the optimal C-B scenario the model reaches a concentration of 552 ppmv in 2100 but then concentrations grow further during the next century. However, the concern of opposers to a 550 ppmv stabilization target is that it may imply an increase in temperature to undesirable and perhaps dangerous levels. Indeed, if the central value hypothesis for the climate sensitivity parameter turned out to be the more realistic, a 550 ppmv concentration target would imply a temperature rise slightly above 2 degrees Celsius by 2100 that would continue to increase during the next century. Therefore, CCS could be seen as an opportunity to tighten the policy target rather than as an opportunity to postpone efforts to limit concentrations under 550 ppmv. In the next subsection a cost-benefit analysis framework is adopted to explore this question.

3.2 Optimal cost-benefit policy, DISCERNI

The following results (see Table 2) are obtained by applying a cost-benefit analysis using the DISCERNI model with the central value for climate sensitivity (2.9, as in DICE) :

(a) in contrast to cost-efficiency analysis, CCS availability by 2030 brings almost no change to near-term optimal emissions/reductions from baseline, even though the optimal cost-benefit scenario of DISCERNI implies high abatement expenses in the near-term.

(b) After 2030, non-CCS abatement efforts are reduced, but emission reductions deriving from CCS technologies do more than compensate the reduction in standard abatement efforts. Clearly, CCS represents an opportunity to abate larger emission amounts.

(c) Optimal CO2 concentration and temperature levels reached by 2100 and 2200 are reduced when CCS is available. The impact on 2100 levels, however, is modest. (see Table 3).

Since CCS availability as little effect on optimal reductions from the baseline, we can conjecture that this property is still verified when uncertainty on the climate (or on future CCS availability) is accounted for. The next section investigates this point.

with a concentration target enforced from 2100 and fixed at the optimal level taken from the costbenefit analysis (see next section) of DISCERNI without CCS available. This time-varying target is more ambitious than the 550 ppmv one and increase the relief offered by CCS availability in DISCERNI: in the near term, 20% of abatement can be bypassed.

DISCERNI model					
	2000	2010	2020	2050	2100
Reduction from baseline, ex	cept CC	CS(MtC))		
CCS available from 2030	808	1,605	2,440	5,133	9,132
CCS unavailable	815	1,618	2,461	5,170	9,207
Δ % CCS vs. no CCS	-1%	-1%	-1%	-1 %	-1 %
CCS (MtC)	n.a.	n.a.	n.a.	531	1,321

Table 2: Effect of CCS availability on optimal emissions. Cost-benefit analysis, DISCERNI model.

Note that due to the inertia of emissions trends, the reductions from baseline aggregate both currrent reduction efforts and the consequences of past abattement. This second effect dominates when abatement policies have been followed over several decades. For example, in 2050, the current abattement is 2,42 GtC when CCS available, 2,45 when CCS is not available. CCS represents indeed a large part of the currrent effort by 2100 but its impact on abatement is limited.

3.3 Optimal hedging policy, DISCERNI

Uncertainty about climate sensitivity is assumed to be resolved by 2040. After that date, policy decisions depend on the information obtained. Before that date, policy decisions are the same for all states of nature. The results are very close to those of the preceding section; note that total emissions rather than emissions reductions from baseline are now reported (see Table 3 and Figure 1 in appendix A).

In particular, CCS still offers an opportunity to reduce emission more compared to the baseline. This effect is even more pronounced when the information obtained in 2040 reveals that the climate sensitivity parameter takes its 'Central' or 'High' value. In particular, in the case where the parameter takes the 'Central' value and CCS is optimally adopted, the resulting level of emissions is even lower than in the case where no CCS option is available and the climate sensitivity parameter takes the 'High' value.

An identical comparison exercise has been performed with DICE. In particular, when the climate sensitivity parameter takes the 'Central' value and no uncertainty is considered, the resulting optimal concentration in 2100 decreases from 552 to 537 ppmv, which corresponds to one decade postponement in the CO2 atmospheric accumulation process.

Finally, the slight difference in near-term policy between scenarios with or without CCS let us conjecture that getting better information on the availability of this option in the future has a small value when compared to that placed on the

	He	dging po	licy	ser	sitivity 2.9	
	2000	2010	2020	2050	2100	2200
Emissions (GtC)						
CCS available from 2030	6.565	6.786	6.854	6.038		
CCS unavailable	6.558	6.773	6.835	6.528		
Δ % CCS vs. no CCS	0.11%	0.19%	0.28%	-7.51%		
CCS (volume in GtC)				0.527	1.323	
<i>Other Reductions (volume in GtC)</i>						
CCS available from 2030				1.741	2.427	
CCS unavailable				1.752	2.448	
Δ % CCS vs. no CCS				-0.63%	-0.88%	
Concentration (ppm)						
CCS available from 2030					465	457
CCS unavailable					478	518
Warming (Celsius)						
CCS available from 2030					1.69	2.00
CCS unavailable					1.75	2.31
Cumulated CCS, GtC					61	318

Table 3: Key variables, DISCERNI

possibility of getting earlier and better information on the climate sensitivity to an increase in carbon concentration.

4 Conclusions

As recalled by Holloway [10] the geological storage of CO2 needs to be guaranteed at least 'until there has been a significant decline in the atmospheric CO2 levels'. Thus the necessary time frame for storage might be in the range of a few hundred years to a few thousand years. In any case, this is 'greater than the likely lifetime of any corporation' and raises the issue of liability and of acceptability of this option by the public.

Nevertheless, carbon capture and storage technologies are recognized as a promising and, in many ways, politically attractive way of reducing emissions without dramatically changing the fuel mix or the energy intensity of the economy. The discussion often focuses on the potential cost reduction that could be obtained through learning-by-doing and research and development expenditures and the resulting rates of penetration of such a new technology. In this paper we have taken a slightly different perspective, asking the question of what should the optimal emission strategy be, admitting that the CCS option may become available at reasonable costs in the future.

The first result that can be drawn from the simulation experiments is that the environmental target which can be derived by applying a Cost-Benefi t analysis should be more ambitious (stringent) if CCS is considered as a potentially available option. Thus, instead of considering CCS as a future way out of the problem of anthropogenic emissions and their effect on the climate, this technology should be integrated in a broader strategy aiming at modifying the economic structure towards better energy standards and carbon-free fuels. The second main conclusion, strictly connected to the first, is that, the possible future availability of CCS is not a reason to signifi cantly reduce the otherwise optimal abatement efforts to be undertaken in the present and in the near future. The third conclusion concerns the value of getting better information. Previous conclusion let us conjecture that obtaining a better understanding of the climate cycle and of the sensitivity of the climate to changes in atmospheric concentration of CO2 would be more valuable than information concerning the CCS technological option.

These conclusions would be even reinforced, if one considered the issues of auto-consumption of energy and of leakages from the storages.

A Optimal emissions, with an without CCS. Hedging scenario.

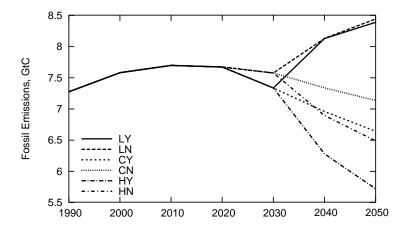


Figure 1: Optimal emissions, with and without CCS

LY : CCS available from 2030, climate sensitivity learned to be L in 2040.

LN : CCS not available, climate sensitivity learned to be L in 2040.

CY : CCS available from 2030, climate sensitivity learned to be C in 2040.

CN : CCS not available, climate sensitivity learned to be C in 2040.

HY : CCS available from 2030, climate sensitivity learned to be H in 2040.

HN : CCS not available, climate sensitivity learned to be H in 2040.

The availability of CCS from 2030 does not significantly modify optimal emissions before that date. When climate uncertainty is resolved in 2040, the role of CCS is of greater importance when the climate sensitivity is revealed to be dangerous. Note that in the case with central sensitivity, availability of CCS optimally allows to reduce emissions more than in the case with high sensitivity but no CCS available.

B Summary of the model

The DISCERNI model solves the following problem.

$$\max_{v_0,\dots,v_{d-1}} \mathbb{E}\left\{\sum_{t=0}^{d-1} U_t(c_t) + \mathbb{E}\left[\max_{(v_d(\lambda),\dots,v_T(\lambda))} \sum_{t=d}^T U_t(c_t(\lambda) \mid \lambda\right]\right\}$$

Decision: $v_t = (\mu_t, \mu_t^{ccs}, b_t)$ where b_t is the rate of investment

Laws of Motion

 $\begin{array}{ll} \text{Capital Accumulation} & K_{t+1} = (1-\delta)K_t + 10b_t\mathcal{Y}_t(\mu_t, \mu_t^{ccs}, X_t, K_t) \\ \text{Endogenous Carbon Intensity} & \sigma_{t+1} = (1-e)\sigma_{t+1}^0 + e\sigma_t \frac{\sigma_{t+1}^0}{\sigma_t^0}(1-\zeta\mu_t) \\ \text{Atmospheric Concentration} & M_{t+1} = \alpha_M M_t + h(X_t) + \beta \mathcal{E}_t(K_t, \sigma_t, \mu_t, \mu_t^{ccs}) + LU_t \\ \text{Other Environmental Variables} & X_{t+1} = g(X_t, M_t, \lambda) \end{array}$

Intermediate Variables

Available Output

 $\begin{aligned} \mathcal{Y}_t(K_t, X_t, \mu_t, \mu_t^{ccs}) &= F_t(K_t)(1 - D_t(X_t))(1 - C_t(\mu_t) - C_t^{ccs}(\mu_t^{ccs})) \\ \text{Emissions} \quad \mathcal{E}_t(K_t, \sigma_t, \mu_t, \mu_t^{ccs}) &= (1 - \mu_t - \mu_t^{ccs})\sigma_t F(K_t) \\ \text{Climate damages} \quad \text{for } t < d \quad D_t(X_t) = 0, \quad \text{for } t \ge d \quad D_t(X_t) = D(X_t) \\ \text{Total Consumption} \quad c_t &= (1 - b_t)\mathcal{Y}_t(K_t, X_t(\lambda), \mu_t, \mu_t^{ccs}) \end{aligned}$

The time horizon is T = 40. Time step t = 0 corresponds to the period 2000–2009. The date of arrival of information, d, to the period 2030–2040.

Initial conditions are K_0, σ_0, M_0, X_0 . Cost function C_t is strictly increasing and convex. Utility $U_t = \frac{1}{(1+\delta)^t} \log(\frac{c_t}{POP_t})$. Damage function D is increasing and convex.

References

- K. Akimoto, T. Tomoda, Y. Fujii, and K. Yamaji. Assessment of global warming mitigation options with integrated assessment model DNE21. *Energy Economics*, 26:635–653, 2004.
- [2] I. D. D. Centre. The SRES98 emissions scenarios. Technical report, University of East Anglia, 1999.
- [3] K. Damen, A. Faaij, F. van Bergen, and J. G. ad Erik Lysen. Identification of early opportunities for co2 sequestration — worldwide screening for co2-eor and co2-ecbm projects. *Energy*, In press:1–22, 2004.
- [4] L. Gilotte and E. Fortin. Optimal policy and inertia of carbon intensity trends. In 6th IAEE European Conference, Zürich, Suisse, Sept. 1–3 2004. IAEE. International Association for Energy Economics.
- [5] M. J. Grubb. Technologies, energy systems and the timing of CO₂ emissions abatement. *Energy Policy*, 25(2):159–172, 1997.
- [6] M. Ha-Duong. Imprecise probability bridge scenario-forecast gap. In Annual Meeting of the International Energy Workshop, Laxenburg, Austria, 24–26 June 2003. Jointly organized by EMF/IEA/IIASA.
- [7] M. Ha-Duong, M. J. Grubb, and J.-C. Hourcade. Influence of socioeconomic inertia and uncertainty on optimal CO₂-emission abatement. *Nature*, 390:270–274, 1997.
- [8] M. Ha-Duong and D. Keith. Carbon storage: the economic efficiency of storing CO₂ in leaky reservoirs. *Clean Technology and Environmental Policy*, 5(2/3), Oct. 2003. Special issue on Technologies for Sustainable Development.
- [9] J. K. Hammitt. Evaluation endpoints and climate policy: Atmospheric stabilization, benefit-cost analysis and near-term greenhouse-gas emissions. *Climatic Change*, 41:447–468, 1999.
- [10] S. Holloway. Underground sequestration of carbon dioxide a viable greenhouse gas mitigation option. *Energy*, In press:1–16, 2004.
- [11] IPCC. *Climate Change 2001: the scientific basis*. Cambridge University Press, 2001. Contribution of the Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change.

- [12] K. Keller, B. M. Bolker, and D. F. Bradford. Uncertain climate tresholds and economic optimal growth. *Journal of Environmental Economics and Management*, 48(1):723–741, July 2004.
- [13] K. Keller, Z. Yang, M. Hall, and D. F. Bradford. Carbon dioxide sequestration: when and how much? Center for Economic Policy Studies Working Paper 49, Princeton University, Sept. 2003.
- [14] C. D. Kolstad. George Bush versus Al Gore. Irreversibilities in the greenhouse gas accumulation and emission control invesment. *Energy Policy*, 22(9):771–778, 1994.
- [15] F. Lecocq and K. Chomitz. Optimal use of carbon sequestration in a global climate change strategy. Technical Report 2635, World Bank, July 2001.
- [16] M. G. Morgan and D. Keith. Subjective judgments by climate experts. Environmental Science and Technology, 29(10):468A–476A, Oct. 1995.
- [17] N. Nakićenović, editor. *Special Report on Emissions Scenarios*. Cambridge University Press, 2000.
- [18] W. D. Nordhaus. Managing the Global Commons. MIT Press, 1994.
- [19] W. D. Nordhaus and J. Boyer. *Warming the World: Economics Models of Global Warming*. MIT press, 2000.
- [20] W. D. Nordhaus and D. Popp. What is the value of scientific knowledge? *Energy Journal*, pages 1–23, 1997. Previously Yale University, Cowles Foundation Discussion Paper 1117, March 1996.
- [21] S. C. Peck and T. J. Teisberg. Global warming uncertainties and the value of information: An analysis using CETA. *Resource and Energy Economics*, 15:71–97, 1993.
- [22] K. Riahi, E. S. Rubin, M. R. Taylor, L. Schratenholzer, and D. Hounshell. Technological learning for carbon capture and sequestration technologies. *Energy Economics*, 26(4):539–564, 2004.

NOTE DI LAVORO DELLA FONDAZIONE ENI ENRICO MATTEI

Fondazione Eni Enrico Mattei Working Paper Series

http://www.feem.it/Feem/Pub/Publications/WPapers/default.html http://www.ssrn.com/link/feem.html

http://www.repec.org

NOTE DI LAVORO PUBLISHED IN 2004

IEM	1.2004	Anil MARKANDYA, Suzette PEDROSO and Alexander GOLUB: Empirical Analysis of National Income and So2 Emissions in Selected European Countries
ETA	2.2004	Masahisa FUJITA and Shlomo WEBER: Strategic Immigration Policies and Welfare in Heterogeneous Countries
PRA	3.2004	Adolfo DI CARLUCCIO, Giovanni FERRI, Cecilia FRALE and Ottavio RICCHI: Do Privatizations Boost Household Shareholding? Evidence from Italy
ETA	4.2004	Victor GINSBURGH and Shlomo WEBER: Languages Disenfranchisement in the European Union
ETA	5.2004	Romano PIRAS: Growth, Congestion of Public Goods, and Second-Best Optimal Policy
CCMP	6.2004	Herman R.J. VOLLEBERGH: Lessons from the Polder: Is Dutch CO2-Taxation Optimal
PRA	7.2004	Sandro BRUSCO, Giuseppe LOPOMO and S. VISWANATHAN (lxv): Merger Mechanisms
PRA	8.2004	Wolfgang AUSSENEGG, Pegaret PICHLER and Alex STOMPER (lxv): IPO Pricing with Bookbuilding, and a When-Issued Market
PRA	9.2004	Pegaret PICHLER and Alex STOMPER (lxv): Primary Market Design: Direct Mechanisms and Markets
PRA	10.2004	<i>Florian ENGLMAIER, Pablo GUILLEN, Loreto LLORENTE, Sander ONDERSTAL and Rupert SAUSGRUBER</i> (lxv): The Chopstick Auction: A Study of the Exposure Problem in Multi-Unit Auctions
PRA	11.2004	Bjarne BRENDSTRUP and Harry J. PAARSCH (lxv): Nonparametric Identification and Estimation of Multi- Unit, Sequential, Oral, Ascending-Price Auctions With Asymmetric Bidders
PRA	12.2004	Ohad KADAN (lxv): Equilibrium in the Two Player, k-Double Auction with Affiliated Private Values
PRA	13.2004	Maarten C.W. JANSSEN (lxv): Auctions as Coordination Devices
PRA	14.2004	Gadi FIBICH, Arieh GAVIOUS and Aner SELA (lxv): All-Pay Auctions with Weakly Risk-Averse Buyers
PRA	15.2004	Orly SADE, Charles SCHNITZLEIN and Jaime F. ZENDER (lxv): Competition and Cooperation in Divisible
		Good Auctions: An Experimental Examination
PRA	16.2004	Marta STRYSZOWSKA (lxv): Late and Multiple Bidding in Competing Second Price Internet Auctions
CCMP	17.2004	Slim Ben YOUSSEF: <u>R&D in Cleaner Technology and International Trade</u>
NRM	18.2004	Angelo ANTOCI, Simone BORGHESI and Paolo RUSSU (lxvi): <u>Biodiversity and Economic Growth:</u> <u>Stabilization Versus Preservation of the Ecological Dynamics</u>
SIEV	19.2004	Anna ALBERINI, Paolo ROSATO, Alberto LONGO and Valentina ZANATTA: Information and Willingness to Pay in a Contingent Valuation Study: The Value of S. Erasmo in the Lagoon of Venice
NRM	20.2004	Guido CANDELA and Roberto CELLINI (Ixvii): Investment in Tourism Market: A Dynamic Model of Differentiated Oligopoly
NRM	21.2004	Jacqueline M. HAMILTON (lxvii): Climate and the Destination Choice of German Tourists
NRM	22.2004	Javier Rey-MAQUIEIRA PALMER, Javier LOZANO IBÁÑEZ and Carlos Mario GÓMEZ GÓMEZ (Ixvii):
INKIVI	22.2004	Land, Environmental Externalities and Tourism Development
NRM	23.2004	Pius ODUNGA and Henk FOLMER (lxvii): Profiling Tourists for Balanced Utilization of Tourism-Based
		Resources in Kenya
NRM	24.2004	Jean-Jacques NOWAK, Mondher SAHLI and Pasquale M. SGRO (lxvii):Tourism, Trade and Domestic Welfare
NRM	25.2004	Riaz SHAREEF (lxvii): Country Risk Ratings of Small Island Tourism Economies
NRM	26.2004	Juan Luis EUGENIO-MARTÍN, Noelia MARTÍN MORALES and Riccardo SCARPA (lxvii): Tourism and
		Economic Growth in Latin American Countries: A Panel Data Approach
NRM	27.2004	Raúl Hernández MARTÍN (Ixvii): Impact of Tourism Consumption on GDP. The Role of Imports
CSRM	28.2004	Nicoletta FERRO: Cross-Country Ethical Dilemmas in Business: A Descriptive Framework
NRM	29.2004	Marian WEBER (lxvi): Assessing the Effectiveness of Tradable Landuse Rights for Biodiversity Conservation: an Application to Canada's Boreal Mixedwood Forest
NRM	30.2004	<i>Trond BJORNDAL, Phoebe KOUNDOURI and Sean PASCOE</i> (lxvi): <u>Output Substitution in Multi-Species</u> <u>Trawl Fisheries: Implications for Quota Setting</u>
CCMP	31.2004	Marzio GALEOTTI, Alessandra GORIA, Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on Natural, Social and Economic Systems (WISE) Part I: Sectoral Analysis of Climate Impacts in Italy
0 01 F	22.2004	Marzio GALEOTTI, Alessandra GORIA, Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on
CCMP	32.2004	Natural, Social and Economic Systems (WISE) Part II: Individual Perception of Climate Extremes in Italy
CTN	33.2004	Wilson PEREZ: Divide and Conquer: Noisy Communication in Networks, Power, and Wealth Distribution
KTHC	34.2004	<i>Gianmarco I.P. OTTAVIANO and Giovanni PERI</i> (lxviii): <u>The Economic Value of Cultural Diversity: Evidence</u> <u>from US Cities</u>
KTHC	35.2004	Linda CHAIB (Ixviii): Immigration and Local Urban Participatory Democracy: A Boston-Paris Comparison

Our Note di Lavoro are available on the Internet at the following addresses:

KTHC	36.2004	<i>Franca ECKERT COEN and Claudio ROSSI</i> (lxviii): <u>Foreigners, Immigrants, Host Cities: The Policies of</u> Multi-Ethnicity in Rome. Reading Governance in a Local Context
		Kristine CRANE (lxviii): Governing Migration: Immigrant Groups' Strategies in Three Italian Cities – Rome.
KTHC	37.2004	Naples and Bari
KTHC	38.2004	Kiflemariam HAMDE (lxviii): Mind in Africa, Body in Europe: The Struggle for Maintaining and Transforming
		Cultural Identity - A Note from the Experience of Eritrean Immigrants in Stockholm
ETA	39.2004	Alberto CAVALIERE: Price Competition with Information Disparities in a Vertically Differentiated Duopoly Andrea BIGANO and Stef PROOST: The Opening of the European Electricity Market and Environmental
PRA	40.2004	Policy: Does the Degree of Competition Matter?
CCMP	41.2004	Micheal FINUS (lxix): International Cooperation to Resolve International Pollution Problems
KTHC	42.2004	Francesco CRESPI: Notes on the Determinants of Innovation: A Multi-Perspective Analysis
CTN	43.2004	Sergio CURRARINI and Marco MARINI: Coalition Formation in Games without Synergies
CTN	44.2004	Marc ESCRIHUELA-VILLAR: Cartel Sustainability and Cartel Stability
NRM	45.2004	Sebastian BERVOETS and Nicolas GRAVEL (lxvi): <u>Appraising Diversity with an Ordinal Notion of Similarity</u> : An Axiomatic Approach
NRM	46.2004	Signe ANTHON and Bo JELLESMARK THORSEN (lxvi): Optimal Afforestation Contracts with Asymmetric
	47.2004	Information on Private Environmental Benefits John MBURU (lxvi): Wildlife Conservation and Management in Kenya: Towards a Co-management Approach
NRM		Ekin BIROL, Ágnes GYOVAI and Melinda SMALE (Ixvi): Using a Choice Experiment to Value Agricultural
NRM	48.2004	Biodiversity on Hungarian Small Farms: Agri-Environmental Policies in a Transition al Economy
CCMP	49.2004	Gernot KLEPPER and Sonja PETERSON: The EU Emissions Trading Scheme. Allowance Prices, Trade Flows, Competitiveness Effects
GG	50.2004	Scott BARRETT and Michael HOEL: Optimal Disease Eradication
CTN	51.2004	Dinko DIMITROV, Peter BORM, Ruud HENDRICKX and Shao CHIN SUNG: <u>Simple Priorities and Core</u> Stability in Hedonic Games
CIEV.	52 2004	Francesco RICCI: Channels of Transmission of Environmental Policy to Economic Growth: A Survey of the
SIEV	52.2004	Theory
SIEV	53.2004	Anna ALBERINI, Maureen CROPPER, Alan KRUPNICK and Nathalie B. SIMON: Willingness to Pay for Mortality Risk Reductions: Does Latency Matter?
NRM	54.2004	<i>Ingo BRÄUER and Rainer MARGGRAF</i> (lxvi): <u>Valuation of Ecosystem Services Provided by Biodiversity</u> <u>Conservation: An Integrated Hydrological and Economic Model to Value the Enhanced Nitrogen Retention in</u> Renaturated Streams
NRM	55.2004	Timo GOESCHL and Tun LIN (lxvi): Biodiversity Conservation on Private Lands: Information Problems and
		Regulatory Choices
NRM	56.2004	Tom DEDEURWAERDERE (lxvi): Bioprospection: From the Economics of Contracts to Reflexive Governance
CCMP	57.2004	Katrin REHDANZ and David MADDISON: The Amenity Value of Climate to German Households
CCMP	58.2004	Koen SMEKENS and Bob VAN DER ZWAAN: Environmental Externalities of Geological Carbon Sequestration Effects on Energy Scenarios
NRM	59.2004	Valentina BOSETTI, Mariaester CASSINELLI and Alessandro LANZA (lxvii): Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management
NRM	60.2004	Timo GOESCHL and Danilo CAMARGO IGLIORI (lxvi): Property Rights Conservation and Development: An
		Analysis of Extractive Reserves in the Brazilian Amazon Barbara BUCHNER and Carlo CARRARO: Economic and Environmental Effectiveness of a
CCMP	61.2004	Technology-based Climate Protocol
NRM	62.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Resource-Abundance and Economic Growth in the U.S.
NRM	63.2004	<i>Györgyi BELA, György PATAKI, Melinda SMALE and Mariann HAJDÚ</i> (lxvi): <u>Conserving Crop Genetic</u> Resources on Smallholder Farms in Hungary: Institutional Analysis
NDM	CA 2004	E.C.M. RUIJGROK and E.E.M. NILLESEN (lxvi): The Socio-Economic Value of Natural Riverbanks in the
NRM	64.2004	Netherlands
NRM	65.2004	<i>E.C.M. RUIJGROK</i> (lxvi): <u>Reducing Acidification: The Benefits of Increased Nature Quality. Investigating the</u> Possibilities of the Contingent Valuation Method
ETA	66.2004	Giannis VARDAS and Anastasios XEPAPADEAS: Uncertainty Aversion, Robust Control and Asset Holdings
GG	67.2004	Anastasios XEPAPADEAS and Constadina PASSA: Participation in and Compliance with Public Voluntary
GG	68.2004	Environmental Programs: An Evolutionary Approach Michael FINUS: Modesty Pays: Sometimes!
00	08.2004	Trond BJØRNDAL and Ana BRASÃO: The Northern Atlantic Bluefin Tuna Fisheries: Management and Policy
NRM	69.2004	Implications
CTN	70.2004	Alejandro CAPARRÓS, Abdelhakim HAMMOUDI and Tarik TAZDAÏT: On Coalition Formation with Heterogeneous Agents
IEM	71.2004	Massimo GIOVANNINI, Margherita GRASSO, Alessandro LANZA and Matteo MANERA: Conditional Correlations in the Returns on Oil Companies Stock Prices and Their Determinants
IEM	72.2004	Alessandro LANZA, Matteo MANERA and Michael MCALEER: Modelling Dynamic Conditional Correlations
		in WTI Oil Forward and Futures Returns Margarita GENIUS and Elisabetta STRAZZERA: The Copula Approach to Sample Selection Modelling:
SIEV	73.2004	An Application to the Recreational Value of Forests

CCMP	74.2004	Rob DELLINK and Ekko van IERLAND: Pollution Abatement in the Netherlands: A Dynamic Applied General
ETA	75.2004	<u>Equilibrium Assessment</u> Rosella LEVAGGI and Michele MORETTO: <u>Investment in Hospital Care Technology under Different</u>
CTN	76.2004	Purchasing Rules: A Real Option Approach Salvador BARBERÀ and Matthew O. JACKSON (lxx): On the Weights of Nations: Assigning Voting Weights in
		<u>a Heterogeneous Union</u> Àlex ARENAS, Antonio CABRALES, Albert DÍAZ-GUILERA, Roger GUIMERÀ and Fernando VEGA-
CTN	77.2004	REDONDO (lxx): Optimal Information Transmission in Organizations: Search and Congestion
CTN	78.2004	Francis BLOCH and Armando GOMES (lxx): <u>Contracting with Externalities and Outside Options</u> Rabah AMIR, Effrosyni DIAMANTOUDI and Licun XUE (lxx): <u>Merger Performance under Uncertain Efficiency</u>
CTN	79.2004	Gains
CTN CTN	80.2004 81.2004	Francis BLOCH and Matthew O. JACKSON (lxx): <u>The Formation of Networks with Transfers among Players</u> Daniel DIERMEIER, Hülya ERASLAN and Antonio MERLO (lxx): <u>Bicameralism and Government Formation</u>
CTN	82.2004	Rod GARRATT, James E. PARCO, Cheng-ZHONG QIN and Amnon RAPOPORT (lxx): <u>Potential Maximization</u> and Coalition Government Formation
CTN	83.2004	Kfir ELIAZ, Debraj RAY and Ronny RAZIN (lxx): Group Decision-Making in the Shadow of Disagreement
CTN	84.2004	Sanjeev GOYAL, Marco van der LEIJ and José Luis MORAGA-GONZÁLEZ (lxx): <u>Economics: An Emerging</u> Small World?
CTN	85.2004	Edward CARTWRIGHT (lxx): Learning to Play Approximate Nash Equilibria in Games with Many Players
IEM	86.2004	Finn R. FØRSUND and Michael HOEL: Properties of a Non-Competitive Electricity Market Dominated by Hydroelectric Power
KTHC	87.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Natural Resources, Investment and Long-Term Income
CCMP	88.2004	Marzio GALEOTTI and Claudia KEMFERT: Interactions between Climate and Trade Policies: A Survey
IEM	89.2004	A. MARKANDYA, S. PEDROSO and D. STREIMIKIENE: Energy Efficiency in Transition Economies: Is There Convergence Towards the EU Average?
GG	90.2004	Rolf GOLOMBEK and Michael HOEL : Climate Agreements and Technology Policy
PRA	91.2004	Sergei IZMALKOV (lxv): <u>Multi-Unit Open Ascending Price Efficient Auction</u>
KTHC	92.2004	Gianmarco I.P. OTTAVIANO and Giovanni PERI: <u>Cities and Cultures</u>
KTHC	93.2004	Massimo DEL GATTO: Agglomeration, Integration, and Territorial Authority Scale in a System of Trading Cities. Centralisation versus devolution
CCMP	94.2004	Pierre-André JOUVET, Philippe MICHEL and Gilles ROTILLON: Equilibrium with a Market of Permits
CCMP	95.2004	Bob van der ZWAAN and Reyer GERLAGH: Climate Uncertainty and the Necessity to Transform Global Energy Supply
CCMP	96.2004	<i>Francesco BOSELLO, Marco LAZZARIN, Roberto ROSON and Richard S.J. TOL</i> : <u>Economy-Wide Estimates of</u> <u>the Implications of Climate Change: Sea Level Rise</u>
CTN	97.2004	Gustavo BERGANTIÑOS and Juan J. VIDAL-PUGA: Defining Rules in Cost Spanning Tree Problems Through the Canonical Form
CTN	98.2004	Siddhartha BANDYOPADHYAY and Mandar OAK: Party Formation and Coalitional Bargaining in a Model of Proportional Representation
GG	99.2004	Hans-Peter WEIKARD, Michael FINUS and Juan-Carlos ALTAMIRANO-CABRERA: <u>The Impact of Surplus</u> Sharing on the Stability of International Climate Agreements
SIEV	100.2004	<i>Chiara M. TRAVISI and Peter NIJKAMP</i> : Willingness to Pay for Agricultural Environmental Safety: Evidence from a Survey of Milan, Italy, Residents
SIEV	101.2004	Chiara M. TRAVISI, Raymond J. G. M. FLORAX and Peter NIJKAMP: A Meta-Analysis of the Willingness to
NRM	102.2004	Pay for Reductions in Pesticide Risk Exposure Valentina BOSETTI and David TOMBERLIN: Real Options Analysis of Fishing Fleet Dynamics: A Test
CCMP	103.2004	Alessandra GORIA e Gretel GAMBARELLI: Economic Evaluation of Climate Change Impacts and Adaptability
PRA	104.2004	in Italy Massimo FLORIO and Mara GRASSENI: The Missing Shock: The Macroeconomic Impact of British
1101	104.2004	<u>Privatisation</u> John BENNETT, Saul ESTRIN, James MAW and Giovanni URGA: Privatisation Methods and Economic Growth
PRA	105.2004	in Transition Economies
PRA	106.2004	Kira BÖRNER: The Political Economy of Privatization: Why Do Governments Want Reforms? Pehr-Johan NORBÄCK and Lars PERSSON: Privatization and Restructuring in Concentrated Markets
PRA	107.2004	Angela GRANZOTTO, Fabio PRANOVI, Simone LIBRALATO, Patrizia TORRICELLI and Danilo
SIEV	108.2004	MAINARDI: Comparison between Artisanal Fishery and Manila Clam Harvesting in the Venice Lagoon by Using Ecosystem Indicators: An Ecological Economics Perspective
CTN	109.2004	Somdeb LAHIRI: The Cooperative Theory of Two Sided Matching Problems: A Re-examination of Some
NRM	110.2004	<u>Results</u> Giuseppe DI VITA: Natural Resources Dynamics: Another Look
SIEV	111.2004	Anna ALBERINI, Alistair HUNT and Anil MARKANDYA: Willingness to Pay to Reduce Mortality Risks:
KTHC	112.2004	Evidence from a Three-Country Contingent Valuation Study Valeria PAPPONETTI and Dino PINELLI: Scientific Advice to Public Policy-Making
SIEV	113.2004	Paulo A.L.D. NUNES and Laura ONOFRI: The Economics of Warm Glow: A Note on Consumer's Behavior
		and Public Policy Implications Patrick CAYRADE: Investments in Gas Pipelines and Liquefied Natural Gas Infrastructure What is the Impact
IEM	114.2004	on the Security of Supply?
IEM	115.2004	Valeria COSTANTINI and Francesco GRACCEVA: Oil Security. Short- and Long-Term Policies

IEM	116.2004	<i>Valeria COSTANTINI and Francesco GRACCEVA:</i> <u>Social Costs of Energy Disruptions</u> <i>Christian EGENHOFER, Kyriakos GIALOGLOU, Giacomo LUCIANI, Maroeska BOOTS, Martin SCHEEPERS,</i>
IEM	117.2004	Valeria COSTANTINI, Francesco GRACCEVA, Anil MARKANDYA and Giorgio VICINI: <u>Market-Based Options</u> for Security of Energy Supply
IEM	118.2004	David FISK: Transport Energy Security. The Unseen Risk?
	119.2004	Giacomo LUCIANI: Security of Supply for Natural Gas Markets. What is it and What is it not?
	120.2004	L.J. de VRIES and R.A. HAKVOORT: The Question of Generation Adequacy in Liberalised Electricity Markets
		Alberto PETRUCCI: Asset Accumulation, Fertility Choice and Nondegenerate Dynamics in a Small Open
KTHC	121.2004	Economy
NRM	122.2004	Carlo GIUPPONI, Jaroslaw MYSIAK and Anita FASSIO: <u>An Integrated Assessment Framework for Water</u> Resources Management: A DSS Tool and a Pilot Study Application
		Margaretha BREIL, Anita FASSIO, Carlo GIUPPONI and Paolo ROSATO: Evaluation of Urban Improvement
NRM	123.2004	on the Islands of the Venice Lagoon: A Spatially-Distributed Hedonic-Hierarchical Approach
ETA	124.2004	Paul MENSINK: Instant Efficient Pollution Abatement Under Non-Linear Taxation and Asymmetric
LIA	124.2004	Information: The Differential Tax Revisited
NRM	125.2004	Mauro FABIANO, Gabriella CAMARSA, Rosanna DURSI, Roberta IVALDI, Valentina MARIN and Francesca
	120.2001	PALMISANI: Integrated Environmental Study for Beach Management: A Methodological Approach
PRA	126.2004	Irena GROSFELD and Iraj HASHI: The Emergence of Large Shareholders in Mass Privatized Firms: Evidence
		from Poland and the Czech Republic
CCMP	127.2004	Maria BERRITTELLA, Andrea BIGANO, Roberto ROSON and Richard S.J. TOL: <u>A General Equilibrium</u> Applysis of Climate Change Impacts on Tourism
		Analysis of Climate Change Impacts on Tourism Rever GERLAGH: A Climate-Change Policy Induced Shift from Innovations in Energy Production to Energy
CCMP	128.2004	Savings
NRM	129.2004	Elissaios PAPYRAKIS and Rever GERLAGH: Natural Resources, Innovation, and Growth
PRA	130.2004	Bernardo BORTOLOTTI and Mara FACCIO: <u>Reluctant Privatization</u>
		Riccardo SCARPA and Mara THIENE: Destination Choice Models for Rock Climbing in the Northeast Alps: A
SIEV	131.2004	Latent-Class Approach Based on Intensity of Participation
SIEV	132.2004	Riccardo SCARPA Kenneth G. WILLIS and Melinda ACUTT: Comparing Individual-Specific Benefit Estimates
SIEV	132.2004	for Public Goods: Finite Versus Continuous Mixing in Logit Models
	133.2004	Santiago J. RUBIO: On Capturing Oil Rents with a National Excise Tax Revisited
	134.2004	Ascensión ANDINA DÍAZ: Political Competition when Media Create Candidates' Charisma
SIEV	135.2004	Anna ALBERINI: Robustness of VSL Values from Contingent Valuation Surveys
CCMP	136.2004	Gernot KLEPPER and Sonja PETERSON: Marginal Abatement Cost Curves in General Equilibrium: The
		Influence of World Energy Prices
ETA	137.2004	Herbert DAWID, Christophe DEISSENBERG and Pavel ŠEVČIK: Cheap Talk, Gullibility, and Welfare in an Environmental Taxation Game
CCMP	138.2004	ZhongXiang ZHANG: The World Bank's Prototype Carbon Fund and China
	139.2004	Rever GERLAGH and Marjan W. HOFKES: Time Profile of Climate Change Stabilization Policy
		Chiara D'ALPAOS and Michele MORETTO: The Value of Flexibility in the Italian Water Service Sector: A
NRM	140.2004	Real Option Analysis
PRA	141.2004	Patrick BAJARI, Stephanie HOUGHTON and Steven TADELIS (lxxi): Bidding for Incompete Contracts
PRA	142.2004	Susan ATHEY, Jonathan LEVIN and Enrique SEIRA (lxxi): Comparing Open and Sealed Bid Auctions: Theory
		and Evidence from Timber Auctions
PRA	143.2004	David GOLDREICH (lxxi): Behavioral Biases of Dealers in U.S. Treasury Auctions
PRA	144.2004	<i>Roberto BURGUET</i> (lxxi): <u>Optimal Procurement Auction for a Buyer with Downward Sloping Demand: More</u> <u>Simple Economics</u>
	145 0004	Ali HORTACSU and Samita SAREEN (lxxi): Order Flow and the Formation of Dealer Bids: An Analysis of
PRA	145.2004	Information and Strategic Behavior in the Government of Canada Securities Auctions
PRA	146.2004	Victor GINSBURGH, Patrick LEGROS and Nicolas SAHUGUET (lxxi): How to Win Twice at an Auction. On
		the Incidence of Commissions in Auction Markets
PRA	147.2004	Claudio MEZZETTI, Aleksandar PEKEČ and Ilia TSETLIN (lxxi): Sequential vs. Single-Round Uniform-Price
PRA	148.2004	<u>Auctions</u> John ASKER and Estelle CANTILLON (lxxi): <u>Equilibrium of Scoring Auctions</u>
		Philip A. HAILE, Han HONG and Matthew SHUM (lxxi): Nonparametric Tests for Common Values in First-
PRA	149.2004	Price Sealed-Bid Auctions
PRA	150.2004	François DEGEORGE, François DERRIEN and Kent L. WOMACK (lxxi): Quid Pro Quo in IPOs: Why
IKA	130.2004	Bookbuilding is Dominating Auctions
CCMP	151.2004	Barbara BUCHNER and Silvia DALL OLIO: Russia: The Long Road to Ratification. Internal Institution and
		Pressure Groups in the Kyoto Protocol's Adoption Process
CCMP	152.2004	Carlo CARRARO and Marzio GALEOTTI: Does Endogenous Technical Change Make a Difference in Climate Policy Analysis? A Robustness Exercise with the FEEM-RICE Model
		Alejandro M. MANELLI and Daniel R. VINCENT (lxxi): Multidimensional Mechanism Design: Revenue
PRA	153.2004	Maximization and the Multiple-Good Monopoly
		Nicola ACOCELLA, Giovanni Di BARTOLOMEO and Wilfried PAUWELS: Is there any Scope for Corporatism
ETA	154.2004	in Stabilization Policies?
CTN	155 2004	Johan EYCKMANS and Michael FINUS: An Almost Ideal Sharing Scheme for Coalition Games with
	155.2004	Externalities
CCMP	156.2004	Cesare DOSI and Michele MORETTO: Environmental Innovation, War of Attrition and Investment Grants

CCMP 157.2004	Valentina BOSETTI, Marzio GALEOTTI and Alessandro LANZA: How Consistent are Alternative Short-Term	
	Climate Policies with Long-Term Goals?	
ETA	158.2004	Y. Hossein FARZIN and Ken-Ichi AKAO: Non-pecuniary Value of Employment and Individual Labor Supply
ETA	159.2004	William BROCK and Anastasios XEPAPADEAS: Spatial Analysis: Development of Descriptive and Normative
EIA	139.2004	<u>Methods with Applications to Economic-Ecological Modelling</u>
KTHC	160.2004	Alberto PETRUCCI: On the Incidence of a Tax on PureRent with Infinite Horizons
IEM	161.2004	Xavier LABANDEIRA, José M. LABEAGA and Miguel RODRÍGUEZ: Microsimulating the Effects of Household
1EIVI 101.2	161.2004	Energy Price Changes in Spain

NOTE DI LAVORO PUBLISHED IN 2005

CCMP	1.2005	Stéphane HALLEGATTE: Accounting for Extreme Events in the Economic Assessment of Climate Change
CCMP	2.2005	<i>Qiang WU and Paulo Augusto NUNES</i> : <u>Application of Technological Control Measures on Vehicle Pollution: A</u> Cost-Benefit Analysis in China
CCMP	3.2005	Andrea BIGANO, Jacqueline M. HAMILTON, Maren LAU, Richard S.J. TOL and Yuan ZHOU: <u>A Global</u> Database of Domestic and International Tourist Numbers at National and Subnational Level
CCMP	4.2005	Andrea BIGANO, Jacqueline M. HAMILTON and Richard S.J. TOL: <u>The Impact of Climate on Holiday</u> Destination Choice
ETA	5.2005	Hubert KEMPF: Is Inequality Harmful for the Environment in a Growing Economy?
CCMP	6.2005	<i>Valentina BOSETTI, Carlo CARRARO and Marzio GALEOTTI</i> : <u>The Dynamics of Carbon and Energy Intensity</u> in a Model of Endogenous Technical Change
IEM	7.2005	David CALEF and Robert GOBLE: The Allure of Technology: How France and California Promoted Electric Vehicles to Reduce Urban Air Pollution
ETA	8.2005	Lorenzo PELLEGRINI and Reyer GERLAGH: An Empirical Contribution to the Debate on Corruption Democracy and Environmental Policy
CCMP	9.2005	Angelo ANTOCI: Environmental Resources Depletion and Interplay Between Negative and Positive Externalities in a Growth Model
CTN	10.2005	Frédéric DEROIAN: Cost-Reducing Alliances and Local Spillovers
NRM	11.2005	<i>Francesco SINDICO</i> : <u>The GMO Dispute before the WTO: Legal Implications for the Trade and Environment</u> Debate
KTHC	12.2005	<i>Carla MASSIDDA</i> : Estimating the New Keynesian Phillips Curve for Italian Manufacturing Sectors
KTHC	13.2005	Michele MORETTO and Gianpaolo ROSSINI: Start-up Entry Strategies: Employer vs. Nonemployer firms
PRCG	14.2005	Clara GRAZIANO and Annalisa LUPORINI: Ownership Concentration, Monitoring and Optimal Board Structure
CSRM	15.2005	Parashar KULKARNI: Use of Ecolabels in Promoting Exports from Developing Countries to Developed
KTHC	16.2005	Countries: Lessons from the Indian LeatherFootwear Industry Adriana DI LIBERTO, Roberto MURA and Francesco PIGLIARU: How to Measure the Unobservable: A Panel
KIIIC	10.2005	Technique for the Analysis of TFP Convergence
KTHC	17.2005	Alireza NAGHAVI: Asymmetric Labor Markets, Southern Wages, and the Location of Firms
KTHC	18.2005	Alireza NAGHAVI: Strategic Intellectual Property Rights Policy and North-South Technology Transfer
KTHC	19.2005	Mombert HOPPE: Technology Transfer Through Trade
PRCG	20.2005	Roberto ROSON: Platform Competition with Endogenous Multihoming
CCMP	21.2005	Barbara BUCHNER and Carlo CARRARO: <u>Regional and Sub-Global Climate Blocs</u> . A Game Theoretic Perspective on Bottom-up Climate Regimes
IEM	22.2005	<i>Fausto CAVALLARO</i> : <u>An Integrated Multi-Criteria System to Assess Sustainable Energy Options: An</u> Application of the Promethee Method
CTN	23.2005	Michael FINUS, Pierre v. MOUCHE and Bianca RUNDSHAGEN: Uniqueness of Coalitional Equilibria
IEM	24.2005	Wietze LISE: Decomposition of CO2 Emissions over 1980–2003 in Turkey
CTN	25.2005	Somdeb LAHIRI: The Core of Directed Network Problems with Quotas
SIEV	26.2005	Susanne MENZEL and Riccardo SCARPA: Protection Motivation Theory and Contingent Valuation: Perceived Realism, Threat and WTP Estimates for Biodiversity Protection
NRM	27.2005	Massimiliano MAZZANTI and Anna MONTINI: The Determinants of Residential Water Demand Empirical Evidence for a Panel of Italian Municipalities
CCMP	28.2005	Laurent GILOTTE and Michel de LARA: Precautionary Effect and Variations of the Value of Information
NRM	29.2005	Paul SARFO-MENSAH: Exportation of Timber in Ghana: The Menace of Illegal Logging Operations
CCMP	30.2005	Andrea BIGANO, Alessandra GORIA, Jacqueline HAMILTON and Richard S.J. TOL: <u>The Effect of Climate</u> Change and Extreme Weather Events on Tourism
NRM	31.2005	Maria Angeles GARCIA-VALIÑAS: Decentralization and Environment: An Application to Water Policies
NRM	32.2005	Chiara D'ALPAOS, Cesare DOSI and Michele MORETTO: Concession Length and Investment Timing Flexibility
CCMP	33.2005	Joseph HUBER: Key Environmental Innovations
CTN	34.2005	Antoni CALVÓ-ARMENGOL and Rahmi İLKILIÇ (lxxii): Pairwise-Stability and Nash Equilibria in Network Formation
CTN	35.2005	Francesco FERI (lxxii): Network Formation with Endogenous Decay
CTN	36.2005	Frank H. PAGE, Jr. and Myrna H. WOODERS (lxxii): <u>Strategic Basins of Attraction, the Farsighted Core, and</u> Network Formation Games

CTN 38.2005 Matthew O., JACKSON and Alison WATTS (bxi): Social Games: Matching and the Play of Entitley Repeated Games CTN 39.2005 Anna BOGOMOLMAL Alchel LE BRETON, Alevel SAWATEEV and Shlomo WEBER (bxi): The Egalitarian Sharing Red in Provision of Public Projects CTN 40.2005 Francesco FERI, Stochastic Stability in Network with Deasy CTN 40.2005 Arrit de ZEUW (ksi): Dynamic Effects on the Stability of International Environmental Agreements C. Marting van der HEIDF, Jerene C.J.M. van den BRR0H, F&ko C. van FREAN and value A.L.D. NUNNEX NRM 42.2005 Messating the Economic Value of Two Hebita Deframentation Folley Scenarios for the Veluve. The Netherlands PRCG 43.2005 Carlor VIERIA and Ana Paula SERRAI: Abnormal Returns in Privatization Public Offerings: The Case of Partiaguese Firms STEV 44.2005 Mathem FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. The Male af FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. The Mathem FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. CTN 45.2005 Mathem FIRERUM and Rayer GERLAGH? And Paulo SOEI (bas): A Characterization of Stuchatically Stable Mathem Finistical Comparison of Stuckatical VANNETELBOSCH (bas): A Characterization of Stuckatical VStable CTN 45.2005 Mathem FIRERUM and Water Demands with SEM and VAR: An Empirical Comparison Mathem Vient Vient Vient Vient V	CTN	37.2005	Alessandra CASELLA and Nobuyuki HANAKI (lxxii): Information Channels in Labor Markets. On the Resilience of Referral Hiring
CTN 39.200 Jama DOGOMCLNALA, Michel LE BRETON, Alexes SAPTATERV and Shlomo WEBER (txsii): The Egalitarian Sharing Rule in Provision of Public Projects CTN 40.2005 Francesco FER: Stochastic Stability in Network with Decay CTN 40.2005 Francesco FER: Stochastic Stability in Network with Decay Network Messuing the Economic Value of Two Headbalt Defragmentation Policy. Scattroits for the Values, The Network Networ	CTN	38.2005	Matthew O. JACKSON and Alison WATTS (lxxii): Social Games: Matching and the Play of Finitely Repeated
CTN 40.000 CTN 41.200 Jatima Kalic m Provides Charlos Charas Charlos Charlos Chardis Charlos Charlos Charlos Cha	CTN	20 2005	
412005 And the ZEUUW (Knith: Dynamic Effects on the Stubility of International Environmental Arcemenents C. Marting was der HERD, Jeronen CJ.M. was den RERRAT, IKAN D. and Paulos AL-D. NUNES: NRM 422005 Measuring, the Leconomic Value of Two. Habitat Defragmentation. Policy. Scenarios for the Veluxe, The Netherlands PRCG 432005 Corlor VIEIRA and Ana Paulo SERAA: Abnormal. Returns in Drivatization. Public Offerings: The Case of Partraguese Firms SIEV 442005 Anna ALBERNI, Valentinu ZANATTA and Paulo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sport Fishing in the Lagoon Of Vanice Rule of Timing and Regulation Control Timing and Regulation CCMP 462005 Lorenzo PELLEGRINI and Rayer GERLAGH: Are EU Environmental Policies Too Demanding for New Members Natios? IEM 47.005 Mattee MANERT, Nodeling Factor Demands with SEM and VAR: An Empirical Comparison Oliveer TRECIEUX and Vincent VANNETELBOSCH (UNX: Characterization of Suchastically Sable Members Natios? Crin 49.2005 Anna MADLEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (UNX): RAD Networks Annang Immunoration and Americanents Crin 50.2005 Contro CHAMING, Johan BYCKMANS and Michael FINUS: Optimal Transfers and Panicipation Decisions in Immunoration and Americanents Crin 51.2005 Anneg Immunorational Americanents Appicational Americanal Americanents S1205 Contro CHAMING, Johan BYCKMANS and Michael FINUS: Optimal Transfers and			
 C. Martijn van der HEIDE, Jerone C.J.M. van den BERGH, Ekko C. van TERLAND auf Junio A.L.D. NUMES: Metherlands M. Stherlands Corlo VIERA auf Aua Paule SERA: <u>Abnormal Returns in Privatization Public Offerines: The Cale of Partuguese Firms</u> M. All DERAND, Valentina ZMATTA auf Paulo ROSATO: <u>Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice</u> M. Mand JERRIN, Valorina ZMATTA and Paulo ROSATO: <u>Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice</u> M. Mcheel FINUS and Biance RUNDBHAGEN: Participation in International Environmental Agreements: The Role of Timing and Revolution (New York) CRLAGH: <u>Are EU Environmental Public's Too Demanding for New Members States?</u> M. Moro MINERE: Modeling Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFICUX and Vincent VANNETELBOSCH (Ussa): <u>A Cumractorization of Stochastically Stable Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Pincent J. VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, John FUCKMANN and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements. S2005 <u>Allow GATTAN ACHARINAN and Michael FINUS: Optimal Transfers and Participation Decisions in International Barcelinate Agreements and Trade Oblizations: Theoretical Analysis of the Daha Porposal Amorganic Activities based in the City of Valuets on On Site Material Margaretine BREIL, Greet GAMBARELLI and Paulo ALD, NUNES: Economic Valuation of On Site Material Margaretine BREIL (Control Activities Instead in International Structures)</u> S2005 Gerron KLEPPER and Song PETERSON: Emissionan Training, CDM II, and Mo			
Netherlands Netherlands PRCG Carlot (PIERA and Ana Paula SERA4: Abnormal Returns in Privatization Public Offerings: The Case of Particusces Firms Anno ALBERNI, Valorina ZAVATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice Michoal FINIS and Bianco RUNDSHAGEN: Participation in International Environmental Agreements: The Biole of Timine and Regulation Lorenzo PELLEGRINI and Regier GERLAGH: Are EU Environmental Policies Too Demanding for New MembersShates? IEM 47.2005 Matton AMNREH: Modeling Flactor Demands with SEM and VAR: An Empirical Comparison Otivier TERCIEUX and Vincent VINNETELBOSCH (bxs): A Characterization of Stochastically Stable Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Christo Vincent ANDER VINCENDE ANDER Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Christo Vincent ANDER VINCENDE ANDER Networks Chris Stabas Annostrabas	CIII	41.2005	
 PRCG 43.005 Portuguese Firms Anna AJRERNI, Vienetina ZANATTA and Paolo ROSATO: Combining Actual and Confingent Behavior to Estimate the Value of Sports Eshing in the Layoon of Venice Mchael FIVUS and Branca RUNDSHIGGEN: Participation in International Environmental Agreements: The Bole of Timing and Regulation Lorento PELLEGENIN and Rever GERLAGH: Are EU Environmental Policies Too Demanding for New Members States? Menton PELLEGENIN and Rever GERLAGH: Are EU Environmental Policies Too Demanding for New Members States? Mattee MARRA+ Muching Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks Mattee MARRA+ Muching Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks Anna MALLEON , José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (1xxii): <u>B&D Networks</u> Among Unionized Etrums Carlo CARRARO, Johan EYCKMANN and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements Steven SACHAPY BMURIDAN, José SEMPERE-MONERRIS and France ALD Deligitions: A Theoretical Analysis of the Dohan Proposal Matterial Experiments and Trade Obligations: A Theoretical Analysis of the Dohan Proposal Matterial BELL Gravel GAMBARELLI and Paulo ALD. NUNES: Economic Valuation of On Site Material Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response: Expert Based Valuation Approach. Team KALLEPPER and Sonja PETERSON: Emissions Trading, CDM JL and More – The Climate Strategy of the ED Matter & Comparison on Structures vs. Lagmerent in a Paul of Italian Firms Stocos Euro KLEPPER and Sonja PETERSON: Emissions Trading, CDM DL and More – The Climate Strategy	NRM	42.2005	Netherlands
SIEV 44.2005 <i>Anna LIBERNIN</i> , Valentina ZANATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sorts Fishing in the Lacoon of Venice CTN 45.2005 <i>Michael FNUS and Bianca RUNDSHIGEN:</i> Participation in International Environmental Acreements: The Role of Timing and Resultation CCMP 46.2005 <i>Matten MAREA: Mudaling Encur Dermanks with SEM and VAR:</i> An Empirical Comparison Other TRICIEUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks CTN 48.2005 <i>Matten MAREA: Mudaling Encur Dermanks with SEM and VAR:</i> An Empirical Comparison Other TRICIEUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks CTN 49.2005 <i>Anna MAILEON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</i> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent SATURES</u> (1xx): <u>A Comparison AIGHAF</u> (1x): <u>Multileal Environmental Agreements and Traile Obligations: A Theoretical Analysis of International Environmental Agreements (1xx): <u>A AGIAF</u> (1x): <u>Multileal Environmental Agreements and Traile Obligations: A Theoretical Analysis of the Daha Penpaal. KTHC 51.2005 <i>Michael DOCI, Marcio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA</i>: <u>Investment and Time to Plant. A Comparison Of Structures SX. Equipment in a Date of Halian Firms Geront KLEPPER and Songe PETERSON: <u>Emisin</u></u></u></u>	PRCG	43.2005	· · · · · · · · · · · · · · · · · · ·
Role of Timing and Regulation CCMP 46.2005 Members States? CTN States? States? States? States? States? States? Members States? Members States? Members States? Members States? Members States? States? Members States? States? Members States?	SIEV	44.2005	Anna ALBERINI, Valentina ZANATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Lagoon of Venice
 Menthers States? Menthers States? Menthers States? Marker M. Modeling Factor Demands with SEM and VAR: An Empirical Comparison Othvier TERCIEUX and Vincent VANNETELBOSCH (txx): A Characterization of Stochastically Stable Networks Annon MULLEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): R&D Networks Amone Unionized Tims Corrol CARRARO, Ohan FYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements Valenci GATTAE Trom the Theory of the Firm to FD1 and Internalisation: A Survey Alliera MGITAH: Tom the Theory of the Firm to FD1 and Internalisation: A Survey Alliera MGITAH: Multilutera Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 2005 Damages of High Natro Economic Activities based in the City of Venice: Results from a Dose-Response: Expert Based Valuation Approach ETA 54.2005 Damages of High Natro DEconomic Activities based in the City of Venice: Results from a Dose-Response: Expert Based Valuation Approach ETA 54.2005 Matter A Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 52.2005 Matter A Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 52.2005 Ilioh MURDON And Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Main DAVID and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Homitar KARL, Anjie MOLLER, Nineen MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVARI and Amstatos NEPPAPDEAS (SAIN): Criteria for Assessing Environmental Innovations: Institutional Impacts on Co-operations for Sus	CTN	45.2005	
 HARDEN MARRA: Modeling Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIEUX and Vincent VANNETELBOSCH (txx): A Characterization of Stochastically Stable Networks Ana MULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): <u>R&D Networks</u> Ana MULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): <u>R&D Networks</u> Annog Unionized Firms Carlo CARRA RO, Johan ETCKMANS and Michael FINUS: <u>Optimal Transfers and Participation Decisions in International Environmental Agreements</u> Valeria GATTAH: From the Theory of the Firm to FDI and Internalisation: A Survey Alizera MGRAFI: Mulliabera Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BREII, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach Damages of High Water on Economic Altrivities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach De Dimit A Comparison of Structures S. Equipment in a Panel of Italian Firms Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL and More – The Climate Strategy of the Ell Hatta Science NARCHAR, Angle MOLLER, Xinena AMTUS, Edgar GRANDE and Robert KAISER: Environmental Impoctations: Institutional Impacts on Co-operations for Sustainable Development Helmut KARL, Angle MOLLER, Xinena AMTUS, Edgar GRANDE and Robert KAISER: Environmental Impoctations, Institutional Impacts on Co-operations for Sustainable Development Helmut KARL, Angle MOLLER, Xinena MATUS, Edgar GRANDE and Robert KAISER: En	CCMP	46.2005	•
 Networks Networks Ana MAILEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): R&D Networks Amone Unionized Firms Carlo CARARO, Johan FYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC \$1,2005 Valeria GATTAI: From the Theory of the Firm to FD1 and Internalisation: A Survey Alternational Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BRFII, Greel GAMBARELL1 and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Margaretha BRFII, Greel GAMBARELL1 and Paulo A.L.D. NUNES: Economic Valuation of On Site Material SIEV \$3.2005 Damaess of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response: Expert-Based Valuation Approach ETA \$4,2005 Alternad Mosong PETERSON: Emissions Trading, CDNU, II, and More – The Climate Strategy of the EU ETA \$6,2005 Main DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alain-Désiré MIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry Helmut KARL, Antje MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swith Susta Frene YALSECCHF: A Role for Instructions Valentina BOSETTI and Gionni LOCATELL: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Inlain National Parks Sustain Destrit and Gionni LOCATELL: A Data Envelopmen	IEM	47.2005	
CTN 49,205 Ana MAULRON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (1xxi): <u>R&D Networks</u> Among Unionized Firms CTN 50,2005 Carlo CARRARO, Johan EYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC 51,2005 Valeta GATTAI: From the Theory of the Firm to EDI and Internalisation: A Survey Allrea NAGULAVI: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53,2005 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response- Expert-Based Valuation Approach ETA 54,2005 Internation of Structures vs. Equipment in a Panel of Hallan Firms CCMP 55,2005 EU ETA 56,2005 Main D AITO and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Allain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Allain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Presence of an Eco-Industry NRM 58,2005 Helmut KARI, Anije MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations For Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Instituting Impacts on Co-operations for Sustainable Development In	CTN	48.2005	
CTN 50.2005 Carlo CARRARO, Johan FVCXMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC 51.2005 Valeria GATTAL: From the Theory of the Firm to FD1 and Internalisation: A Survey Alivesa MaGH4/F. Hultilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BREIL, Gretel GAMBARELLI and Paulo A1.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELII and Paulo A1.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELII, Christe P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Miain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Helmut KAIL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Information: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (taxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 62.2005 Andreas LOGCHEL and Dirk T.G. RÜBREIKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data <t< td=""><td>CTN</td><td>49.2005</td><td>Ana MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): <u>R&D Networks</u></td></t<>	CTN	49.2005	Ana MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): <u>R&D Networks</u>
CIN 50.2005 International Environmental Agreements KTHC 51.2005 Valeria GATTAI: From the Theory of the Firm to FD1 and Internalisation: A Survey Mareza NAGHAPT: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Mareza NAGHAPT: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53.2005 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert-Based Valuation Approach ETA 54.2005 Alessandra del BOCA, Marzio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Genot KLEPPER and Sonja PETERSON: Emissions Trading, CDM JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: The Pigouvian Tax Rule in the Presence of an Eco-Industry REA 57.2005 Berlemut KARI, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP		50 2005	
CCMP 52.2005 Alireau A/GHA ^T . Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53.2005 Damages of High Water on Economic Activities based in the City of Venice; Results from a Dose-Response- Expert-Based Valuation Approach ETA 54.2005 Alessandra del BOCA, Marzio GALEOTT, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alian-Détric NUMBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry Falian-Détric NUMARIA and Martin CALR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry NRM 58.2005 Helmut KARL Anije MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on CO-operations for Sustainable Development Innovations: Institutional Research Development Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainable Development Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Valentina BOSETTI and Gianni LOCATELL': A Data Envelopment Ana			International Environmental Agreements
CCMP 52.2005 the Doha Proposal Margaretha BREIL, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material SIEV 53.2005 S12005 Diamages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response. Expert-Based Valuation Approach ETA 54.2005 ETA 54.2005 ETA 55.2005 EU COMP ETA 55.2005 BL Main DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Main-Désiré NIMBONA and Bernard SINCLAIR-DESGAGNÉ: The Propovain Tax Rule in the Presence of an Eco-Industry ECO-Industry Helmut KARL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Dimitra YOUYAKI and Anastasios XEPAPADEAS (Xxiii): Citeria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data SIEV 64.2005 Irone VALSECCH: A Role for Instructions Valeetinina BOSETT	KTHC	51.2005	
 SIEV 53.205 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response- Expert-Based Valuation Approach Alessandra del BOCA, Marzio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Euro FTA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGMÉ: Environmental Regulation and the Eco-Industry Atlain-Desiré NMUBONA and Bernard SINCLAIR-DESGAGMÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry FTA 57.2005 Helmut ARL, Anjie MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVARI and Anastasios XEPAPADEAS (Ixxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LOSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Raintibue Zulastitu and Canne Unstructions SIEV 64.2005 Responses in Attribute Based Valuation Surveys CTN 65.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Barganing. Coalitions and Fairness KTHC 70.2005 Thomas P. LYON (txxiv): Water Social Capital and Social Trust: Pre-Conditions for Good' Diversity? Astima CHRISTOFOROU (txxiv): On the Determinants of Social Capital and Economic Growth in Italy, 1970-1995 KTHC 70.2005 Thomas P. LYON (txxiv): Wateries of Trust KTHC 70.2005 Elshelt van INICCKAMA VILIEG (txxv): Accommodating Differenc	CCMP	52.2005	the Doha Proposal
ExperimentExperimentETA54.2005to ExperimentDefinitionAdvanceCCMP55.2005Gernot KLEPPER and Sonja PETERSON:Emissions Trading, CDM, JL, and More – The Climate Strategy of theETA56.2005Main DAVID and Bernard SINCLAIR-DESGAGNÉ:Environmental Regulation and the Eco-IndustryAtain-Désiré NMUBONA and Bernard SINCLAIR-DESGAGNÉ:The Pigouvian Tax Rule in the Presence of anECA57.2005Eco-IndustryNRM58.2005Helmut KARL, Anije MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER:EIV59.2005Dimitra VOUVARI and Anastasios XEPAPDEAS (Ixxii): Criteria for Assessing SustainableDevelopment:Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesChristoph A. SCHALTEGGER and Benno TORGLER:Trust and Fiscal Performance: A Panel Analysis withSwiss DataSwiss DataETA63.2005Irane T. de BIAEL, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH:MRM63.2005Irane T. de BLAEL, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH:MRM63.2005Sandra WALLARD, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Bargaining, Coalitions and FairnessCTN65.2005Sandra WALLMAN (Ixxiv): Servers Sandra WALLARD, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLAMAN (Ixxiv): Servers Capital and Social Trust: Pre-Co	SIEV	53 2005	
 ETA 54.205 io Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.205 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JI, and More – The Climate Strategy of the EU ETA 56.205 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Atain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry RRM 58.2005 Helmut KARL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (Ixxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas 1/0SCHEL and DUK T. G. RÜBBELKE: Impure Public Goods and Technological Interdependencies CCMP 61.2005 Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Lanalysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues CTN 65.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Issues KTHC 67.2005 Eric M. USLANE (kixiv): Yarieties of Trust KTHC 71.2005 Formars P. LVON (kixiv): Making Capitalian Stroles and International Migration in Historical Perspective KTHC 72.2005 Eric M. USLANER (kixiv): Yarieties of Trust KTHC 69.2005 Eric M. ARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Issues KT		55.2005	
Io Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Atlan-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Billen-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry NRM 58.2005 Inforvations: Institutional Impacts on Co-operations for Sustainable Development Imovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Dimitra VOUVAKI and Anastasios XEPAPADEAS (txxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LOSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Crhristoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data SIEV 64.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Sizes Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of	ЕТА	54,2005	
EU Eu ETA 55.2005 Eu ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Bernard SINCLAIR-DESGAGNÉ: Inpresence of an Eco-Industry NRM 58.2005 Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Berno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of NRT 63.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: <tr< td=""><td>2</td><td>0 112000</td><td></td></tr<>	2	0 112000	
ETA56.2005Maia DAVID and Bernard SINCLAIR-DESGAGNË: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-IndustryETA57.2005Eco-Industry Helmut KARL, Antje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable DevelopmentSIEV59.2005Dimitra YOUVAKI and Anaxtasia XEPAPADEA'S (1xxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Cristoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water IssuesKTHC67.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Bargaining, Coalitions and FairnessKTHC70.2005Frick USANAW (1xxiv): Varieties of Trust the European UnionKTHC70.2005Frick USANAW (1xxiv): Yarieties of Trust the European UnionKTHC73.2005Frain UNISOFORO	CCMP	55.2005	· · · ·
ETA 57.2005 Eco-Industry NRM 58.2005 Helmut KARL, Antje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development. SIEV 59.2005 Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation Surveys CTN 65.2005 Carlo CARRARO, Carmen MARCHHORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues KTHC 67.2005 Sandra WALLMAN (txiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (txiv): On the Determinants of Social Capital in Greece Compared to Countries of the European Union KTHC 69.2005 Frice M USLANER (Uxivi): Yarieties of Trust	ETA	56.2005	
NRM55.2005Innovations: Institutional Impacts on Co-operations for Sustainable DevelopmentSIEV59.2005Dimitra VOU/AKI and Anastasios XEPAPADEAS (Ixxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LOSC/HEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Rainame T. de BLAELI, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC69.2005Erric M. USLANER (Ixxiv): Yarieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital in Greece Compared to Countries of the European UnionKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities, A Selected	ETA	57.2005	<u>Eco-Industry</u>
SIEV59.2005Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataPRCG61.2005Irene VALSECCHI: A Role for InstructionsRTA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFFOROU (1xxiv): On the Determinants of Social Capital and Economic Growth in Italy, 1970-1995 Graziella BERTOCCHI and Chiara STROZZI (1xxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (1xxv): Accommodating Differences Renato SANSA and Ercole SORI (1xxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey o	NRM	58.2005	
SIEV59.2005Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroon C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of Trust KTHCKTHC71.2005Faraiela BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating Differences Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONCO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation of External Costs o			
CCMP60.2005Andrea's LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLAVER (Ixxiv): Varieties of Trust PerspectiveKTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating Differences Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Sele	SIEV	59.2005	
PRCG61.2005Swiss DataETA62.2005Irene VALSECCHI: <u>A Role for Instructions</u> NRM63.2005Valentina BOSETTI and Gianni LOCATELLI: <u>A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: <u>Applications of Negotiation Theory to Water Issues</u>CTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: <u>Advances in Negotiation Theory: Bargaining, Coalitions and Fairness</u>KTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Eric M. USLANER (Ixxiv): Yarieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): <u>Citizenship Laws and International Migration in Historical Perspective</u>KTHC73.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (Ixxv): Accommodating DifferencesKTHC73.2005of External Costs of Electricity Generation. Dissemination of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making</u>	CCMP	60.2005	Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies
ETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (txxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (txxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European Union KTHCKTHC69.2005Fric M. USLANER (txxiv): Varieties of Trust Graziella BERTOCCHI and Chiara STROZZI (txxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC71.2005Elsbeth van HYLCKAMA VLIEG (txxv): Accommodating Differences Renato SANSA and Ercole SORI (txxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	PRCG	61.2005	
NRM65.2003Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Renato SANSA and Ecole SORI (Ixxv): Accommodating DifferencesKTHC73.2005Graatel Score SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	ETA	62.2005	
SIEV64.2005Arianne T. de BLAEIJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Accommodating DifferencesKTHC73.2005Metto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	NRM	63.2005	
CTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	SIEV	64.2005	Arianne T. de BLAEIJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice'
CTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	CTN	65.2005	Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water
KTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC68.2005Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC68.2005the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	68.2005	the European Union
KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC 71.2005 Perspective KTHC 72.2005 Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences KTHC 73.2005 Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC		
KTHC 72.2005 Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences KTHC 73.2005 Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	71.2005	
KTHC 73.2005 Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	72.2005	Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences
Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	73.2005	
IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
	IEM	74.2005	of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making

IEM	75.2005	Margherita GRASSO and Matteo MANERA: Asymmetric Error Correction Models for the Oil-Gasoline Price Relationship
ETA	76.2005	Umberto CHERUBINI and Matteo MANERA: Hunting the Living Dead A "Peso Problem" in Corporate Liabilities Data
CTN	77.2005	Hans-Peter WEIKARD: Cartel Stability under an Optimal Sharing Rule
ETA	78.2005	Joëlle NOAILLY, Jeroen C.J.M. van den BERGH and Cees A. WITHAGEN (lxxvi): Local and Global Interactions in an Evolutionary Resource Game
ETA	79.2005	Joëlle NOAILLY, Cees A. WITHAGEN and Jeroen C.J.M. van den BERGH (lxxvi): Spatial Evolution of Social Norms in a Common-Pool Resource Game
ССМР	80.2005	Massimiliano MAZZANTI and Roberto ZOBOLI: Economic Instruments and Induced Innovation: The Case of End-of-Life Vehicles European Policies
NRM	81.2005	Anna LASUT: Creative Thinking and Modelling for the Decision Support in Water Management
CCMP	82.2005	Valentina BOSETTI and Barbara BUCHNER: Using Data Envelopment Analysis to Assess the Relative Efficiency of Different Climate Policy Portfolios
ETA	83.2005	Ignazio MUSU: Intellectual Property Rights and Biotechnology: How to Improve the Present Patent System
KTHC	84.2005	Giulio CAINELLI, Susanna MANCINELLI and Massimiliano MAZZANTI: Social Capital, R&D and Industrial Districts
ETA	85.2005	<i>Rosella LEVAGGI, Michele MORETTO and Vincenzo REBBA</i> : <u>Quality and Investment Decisions in Hospital</u> Care when Physicians are Devoted Workers
CCMP	86.2005	Valentina BOSETTI and Laurent GILOTTE: Carbon Capture and Sequestration: How Much Does this Uncertain Option Affect Near-Term Policy Choices?

(lxv) This paper was presented at the EuroConference on "Auctions and Market Design: Theory, Evidence and Applications" organised by Fondazione Eni Enrico Mattei and sponsored by the EU, Milan, September 25-27, 2003

(lxvi) This paper has been presented at the 4th BioEcon Workshop on "Economic Analysis of Policies for Biodiversity Conservation" organised on behalf of the BIOECON Network by Fondazione Eni Enrico Mattei, Venice International University (VIU) and University College London (UCL), Venice, August 28-29, 2003

(lxvii) This paper has been presented at the international conference on "Tourism and Sustainable Economic Development – Macro and Micro Economic Issues" jointly organised by CRENoS (Università di Cagliari e Sassari, Italy) and Fondazione Eni Enrico Mattei, and supported by the World Bank, Sardinia, September 19-20, 2003

(lxviii) This paper was presented at the ENGIME Workshop on "Governance and Policies in Multicultural Cities", Rome, June 5-6, 2003

(lxix) This paper was presented at the Fourth EEP Plenary Workshop and EEP Conference "The Future of Climate Policy", Cagliari, Italy, 27-28 March 2003

(lxx) This paper was presented at the 9th Coalition Theory Workshop on "Collective Decisions and Institutional Design" organised by the Universitat Autònoma de Barcelona and held in Barcelona, Spain, January 30-31, 2004

(lxxi) This paper was presented at the EuroConference on "Auctions and Market Design: Theory,

Evidence and Applications", organised by Fondazione Eni Enrico Mattei and Consip and sponsored by the EU, Rome, September 23-25, 2004

(lxxii) This paper was presented at the 10th Coalition Theory Network Workshop held in Paris, France on 28-29 January 2005 and organised by EUREQua.

(lxxiii) This paper was presented at the 2nd Workshop on "Inclusive Wealth and Accounting Prices" held in Trieste, Italy on 13-15 April 2005 and organised by the Ecological and Environmental Economics - EEE Programme, a joint three-year programme of ICTP - The Abdus Salam International Centre for Theoretical Physics, FEEM - Fondazione Eni Enrico Mattei, and The Beijer International Institute of Ecological Economics

(lxxiv) This paper was presented at the ENGIME Workshop on "Trust and social capital in multicultural cities" Athens, January 19-20, 2004

(lxxv) This paper was presented at the ENGIME Workshop on "Diversity as a source of growth" Rome November 18-19, 2004

(lxxvi) This paper was presented at the 3rd Workshop on Spatial-Dynamic Models of Economics and Ecosystems held in Trieste on 11-13 April 2005 and organised by the Ecological and Environmental Economics - EEE Programme, a joint three-year programme of ICTP - The Abdus Salam International Centre for Theoretical Physics, FEEM - Fondazione Eni Enrico Mattei, and The Beijer International Institute of Ecological Economics

	2004 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
GG	Global Governance (Editor: Carlo Carraro)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRA	Privatisation, Regulation, Antitrust (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network

	2005 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRCG	Privatisation Regulation Corporate Governance (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network