



### **Carlo Giupponi**

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### **Affiliations:**

- University Ca' Foscari of Venice: Associate Professor; Director Doctoral School "ChangeS" (Global Change Science and Policy); Deputy Director Ca' Foscari School on Sustainability of Environmental and Tourism Systems.
- Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC) – Climate Impacts and Policy Division (CIP): Research affiliate
- Fondazione Eni Enrico Mattei: Topic Leader "Water"

### **Short Bio Notes:**

Carlo Giupponi is associate professor at the Department of Economics of the University of Venice Ca' Foscari (Italy), where he teaches classes at PhD and Master, and Bachelor levels (Natural Resources Management and Climate Change; Economics of the Environment; Socio-ecosystem Valuation Methods, Spatial Analysis and Modelling). His research activity focuses on the integrated assessment and management of natural resources, with main focus on water, agriculture and global change. Specific methodological interests are in (spatial, participatory) modelling and decision support systems. He is currently responsible of European and national projects in the fields of climate change adaptation, water management, agri-environmental policy and water pollution. Recent collaborations and consultancies include institutions such as the Food and Agriculture Organisation, Intergovernmental Panel For Climate Change, World Bank. He has co-authored more than two hundreds scientific and professional papers, and developed several modelling and decision support frameworks and tools in the field of natural resources management, in particular NetSyMod and mDSS (<http://www.netsymod.eu/mdss/>). He is currently member of several scientific societies, member of the Board of Directors of the International Environmental Modelling and Software Society (iEMSs), member of the council of the Global Climate Forum (Process leader: Participatory Methods).

### **Recent contributions to EU research projects:**

- 2001-03: EU Project 5FP "MULINO: MULti-sectoral, INtegrated and Operational decision support system for sustainable use of water resources at the catchment scale" (coordinator)
- 2002-05: EU Project 5FP INCO-MED "SMART: Sustainable Management of Scarce Resources in the Coastal Zone" (responsible of research group)
- 2003-06: EU Project 5FP "TRANSCAT: Integrated water management of transboundary catchments" (responsible of research group)
- 2004-08: EU Coordination action 6FP "Nostrum-Dss: Network on gOvernance, Science and Technology for sustainable water ResoUrce management in the Mediterranean. The role of DSS tools " (coordinator)
- 2005-09: EU Project 6FP "Brahmatwinn: Twinning European and South Asian River Basins to enhance capacity and implement adaptive management approaches" (responsible of research group)
- 2007-11: EU Coordination action 6FP "SPLASH, European Water Initiative - Era-Net; Coordination of Member State research programmes in water science and technology for the developing world" (responsible of research group)
- 2010-12: EU IWRM Era-Net Project "ICARUS: IWRM for Climate change Adaptation in RUral social-ecosystem in Southern Europe" (coordinator)
- 2011-13 EU Project 7FP "Kulturisk: Knowledge-based approach to develop a cULTure of Risk prevention" (responsible of research group)

### **Selection of 10 recent publications:**

1. Mysiak, J., Giupponi, C., Rosato, P., 2005. Towards the Development of a Decision Support System for Water Resource Management. *Environmental Modelling and Software*. 20(2):203-214
2. Fassio, A., Giupponi, C., Hiederer, R., Simota, C., 2005. A Decision Support tool for simulating the effects of alternative policies affecting water resources: an application at the European scale. *Journal of hydrology*. 304:462-476
3. Giupponi C., Vladimirova I., 2006. Ag-PIE: A GIS-based screening model for assessing agricultural pressures and impacts on water quality on a European scale. *Science of the Total Environment*, 359:57– 75.
4. Abildtrup J., Audsley, E., Fekete-Farkas, M., Giupponi, C., Gylling, M., Rosato, P., Rounsevell, M. D. A., 2006. Socio-economic scenario development for the assessment of climate change impacts on agricultural land use: A pairwise comparison approach. *Environmental Science and Policy*, 9:101-115.
5. Giupponi, C., 2007. Decision Support Systems for Implementing the European Water Framework Directive: the MULINO approach. *Environmental Modelling and Software*, 22:248-258

6. Petersson, E., Giupponi, C., Feás J., 2007. Decision support for strategic water management: mDSS in the large dam context. *Water International* 32(2):265-279.
7. Giupponi, C., Sgobbi, A., 2007. Models and decision support systems for participatory decision making in integrated water resource management, In: Koundouri, P. (Ed.), *Coping with water deficiency. From research to policy making*. Springer, pp. 165-186.
8. Giupponi, C., Goria, A., Sgobbi, A., Markandya, A., 2009. A Pilot Study on Payment for Ecological and Environmental Services in Lashihai Nature Reserve, China. , In: Kumar, P., Muradian, R. (Eds.), *Payment for Ecosystem Services*. Oxford University Press: Oxford (UK), pp. 129-159.
9. Balbi, S., Giupponi, C., 2010. Agent-Based Modelling of Socio-Ecosystems: A Methodology for the Analysis of Adaptation to Climate Change. *International Journal of Agent Technologies and Systems* 2(4) 17-38.
10. Ceccato, L., Giannini, V. and Giupponi, C., 2011. Participatory assessment of adaptation strategies to flood risk in the Upper Brahmaputra and Danube river basins. *Environmental Science & Policy*. 14:1163-1174.