

SCIENTIFIC CURRICULUM VITAE

1. Personal details

1	Full name	Andrea Castelletti	Year of birth	1974	Male <input checked="" type="checkbox"/> ; Female <input type="checkbox"/>
	Academic title	Politecnico di Milano	Administrative position	Associate Professor	
2	Institution and address				
	Department	Department of Electronics, Information and Bioengineering, Piazza Leonardo da Vinci, 32 20133 Milano, Italy			
3	Telephone	+39(0)22399 3584	Mobile	Tel:	
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2. Qualifications:

Year	Academic Institution	Major	Academic degree
1999	Politecnico di Milano	Information Engineering	Master
2005	Politecnico di Milano	Environmental and Land Planning Engineering	Doctor

3. Personal experience:

Year	Institution	Address	Position
2014 - present	Department of Electronics, Information and Bioengineering	Piazza Leonardo da Vinci, 32 20133 Milano, Italy	Associate Professor
2009-2015	University of Western Australia	Perth, WA	Adjunct Professor
2006-2014	Dept.of Electronics and Information	Piazza Leonardo da Vinci, 32 20133 Milano, Italy	Asistant Professor
2004-2006	Dept.of Electronics and Information	Piazza Leonardo da Vinci, 32 20133 Milano, Italy	Post - doc
2001-2005	Dept.of Electronics and Information	Piazza Leonardo da Vinci, 32 20133 Milano, Italy	PhD student Information Engineering
1999-2000	Dept.of Electronics and Information	Piazza Leonardo da Vinci, 32 20133 Milano, Italy	Research Associate

4. Language (Rating: A- Poor; B- Fair; C- Sufficient; D- Fluent)

Language	Reading	Writing	Speaking
Italian	D	D	D
English	D	D	D

5. Expertise and research interests

5.1. Main research orientation (within the last 5 years)

Water systems planning and control under uncertainty and risk, decision-making for complex engineering systems, big environmental data analytics and smart sensing, information theory and selection for environmental decision making.

5.2. List of research projects (within the last 5 years)

No	Project name	Funding institution and funded amount	Duration	Position/role in the project
1	ProjectO: Demonstration of planning and technology tools for a circular, integrated and symbiotic use of water, EU H2020-IND-CE-2016-17	PI	2018-2021	Water Resource Specialist
2	US-EU Integrated Power and Water Systems Modelling study, EU-DG Energy	PI in the research unit at Politecnico di Milano.	2018-2019	Water Resource Specialist
3	IRIS: Italian Research and development Initiative for Spaceborne river monitoring, ISPRA,	Trung Son Hydropower company limited and Coordinator	2017 - 2020	Water Resource Specialist
4	SO-WATCH: SOft-path WATER management adaptation to CHanging climate, Cariplo Foundation Grants.	PI	2016-2018	Water Resource Specialist
5	AMBER: Adaptive Management of Barriers in European Rivers, EU H2020-SC5-07.	PI in the research unit at Politecnico di Milano.	2016-2019	Water Resource Specialist
6	DAFNE: A Decision-Analytic Framework to explore the water-energy-food NEXus in complex and transboundary water resources systems of fast growing developing countries, Eu H2020-Water5.	Deputy coordinator and PI in the research unit at Politecnico di Milano.	2016-2019	Water Resource Specialist
7	IMPRESX: IMProving PREdictions and management of hydrological EXtremes, EU H2020-Water2	PI in the research unit at Politecnico di Milano.	2015-2018	Water Resource Specialist
8	SmartH2O: an ICT Platform to leverage on Social Computing for the efficient management of Water Consumption, EU-FP7-ICT.	Deputy coordinator and PI in the research unit at Politecnico di Milano.	2014-2016	Water Resource Specialist

9	Assessing the operational value of SAR retrieved snow information, ASI (Italian Space Agency).	Investigator	2014-2015	Water Resource Specialist
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5.3. Publications and accomplishments (*List all articles in specialized scientific journals, scientific conference proceedings, and scientific awards, in order: author's name; year of publication; name of research results published; journal name / publisher; number, volume release; site of construction; ISSN number*).

5.3.1 Articles in science and technology journal are on the list of SCI, SCIE, SSCI or AHCI of the Institute of Information Science (ISI), USA (including ISSN number)

No	Author	Year	Publications	Publishers/No, vol, page	ISSN/ ISBN	Proof (*)	Notes
1	M. Tangi, R. Schmitt, S. Bizzi, A. Castelletti,	2019	The CASCADE toolbox for analyzing river sediment connectivity and management	Environmental Modelling & Software. 119,400-406			
2	J.D. Quinn, P.M. Reed, M. Giuliani, and A. Castelletti,	2019	What is controlling our control rules? Opening the black box of multi-reservoir operating policies using time-varying sensitivity analysis	Water Resources Research, 55			
3	A. Castelletti, et al.	2019	Twenty-three unsolved problems in hydrology – a community perspective	Hydrological Sciences Journal, 64:10, 1141-1158			
4	A. Castelletti, E. Garofalo, M. Giuliani, M., and H.R. Maier,	2019	Dynamic, multi-objective optimal design and operation of water-energy systems for small, off-grid islands	Applied Energy, 250, 605-616			
5	A. Ahmadalipour, H. Moradkhani, A. Castelletti, N. Magliocca,	2019	Future drought risk in Africa: Integrating vulnerability, climate change, and population growth	Science of The Total Environment. 662, 672-686			
6	A. Castelletti, H. Weigt, P. Burlando,	2018	A comparative assessment of the impact of climate change and energy policies on Alpine hydropower	Water Resources Research, 54, 9144-9161			
7	A. Castelletti, K. Paik,	2018	Multicriteria optimization model to generate on-DEM Optimal Channel Networks	Water Resources Research, 54, 5727-5740.			

8	A. Castelletti, J. Oyler, R. Nicholas,	2018.	Exploring How Changing Monsoonal Dynamics and Human Pressures Challenge Multi-Reservoir Management of Food-Energy-Water Tradeoffs.	Water Resources Research , 54(7), 4638-4662,			
9	A. Castelletti, A. AghaKouchak,	2018.	Climate-Informed Environmental Inflows to Revive a Drying Lake Facing Meteorological and Anthropogenic Droughts	Environmental Research Letters, 13	084010		
10	A. Castelletti, M. Pulido-Velasquez,	2018.	Automatic design of basinspecific drought indexes for highly regulated water systems	Hydrology and Earth System Science. 22, 2409-2424,			
11	A. Castelletti,	2018	Partitioning the impact of streamflow and evaporation uncertainty on the operations of multipurpose reservoirs in arid regions.	Journal of Water Resources Planning and Management. 144(7)	05018008		
12	A. Castelletti, A. Cominola, M. Giuliani, D. Giurco, M. Blumenstein, A. Turner, A. Liu, S. Kenway, D. A. Savić, C. Makropoulos , P. Kossieris	2018	Integrated intelligent water-energy metering systems and informatics: Visioning a digital multi-utility service provider.	Environmental Modeling and Software, 105, 94-117			
13	E. Mason, M. Giuliani, A. Castelletti, F. Amigoni,	2018	Identifying and modelling dynamic preference evolution in multipurpose	Water resources systems, Water Resources Research, 54, 3162–3175			
14	D. Anghileri, A. Castelletti, P. Burlando,	2018	Alpine hydropower in the decline of the nuclear era: exploring trade-offs between revenue and production in the Swiss Alps	Journal of Water Resources Planning and Management.144(8)	04018037		
15	C. McPhail, H.R. Maier, J.H. Kwakkel, M. Giuliani, A. Castelletti, S. Westra,	2018	How are they calculated, when should they be used and why do they give different results	Earth's Future. 6, 169–191			

	Robustness metrics:						
16	R.J. Schmitt, S. Bizzi, A. Castelletti, G.M. Kondolf ,	2018	Improved trade-offs of hydropower and sand connectivity by strategic dam planning in the Mekong,	Nature Sustainability.1, 96–104			
17	A. Cominola, M. Giuliani, A. Castelletti, D.E. Rosenberg, A.M. Abdallah, management,	2018	Implications of data sampling resolution on water use simulation, end-use disaggregation, and demand	Environmental Modeling and Software, 102, 199-212.			
18	C. Rouge, M. Pulido-Velazquez, A. Lopez-Nicolas, P. Garrone, R. Marzano, A. Castelletti and J. Harou,	2018.	The economics and engineering of smart meter enabled dynamic pricing.	Journal of Water Resources Planning and Management. 144(5).	04018019		
19	M.G. Kondolf, R.J. Schmitt, P. Carling, S. Darby, M. Arias, S. Bizzi, A. Castelletti, T. Cochran, S. Gibson, M. Kumm, C. Oeurng, Z. Rubin, T. Wild, .	2018.	Changing sediment budget of the Mekong: Cumulative threats and management strategies for a large river basin	Science of the Total Environment, 625, 114–134			
20	S. Denaro, A. Castelletti, M. Giuliani, G.W. Characklis,	2018.	Fostering cooperation in power asymmetrical water systems by the use of direct release rules and index-based insurance schemes	Advances in Water Resources,115, 301-314.			
21	M. Giuliani, J. D. Quinn, J. D. Herman, A. Castelletti, P.M.	2018.	Reed, Scalable multi-objective control for large scale water resources systems under uncertainty.	IEEE Transactions on Control Systems Technology.26(4), 1492-1499.			
22	A. Cominola, M. Giuliani,	2018.	Segmentation analysis of residential waterelectricity demand	Journal of Cleaner			

	A. Castelletti, J. Lund , .		for customized demand-side management programs	Production. 172, 1607-1619.			
23	F. Recanati, A. Castelletti, G. Dotelli, P. Melia, .	2017.	Trading off natural resources and rural livelihoods. A framework for sustainability assessment of small-scale food production in waterlimited regions	Advances in Water Resources. 10, 484-493.			
24	R. Schmitt, S. Bizzi, A. Castelletti, M. Kondolf,	2017.	Stochastic modeling of sediment connectivity for reconstructing sand fluxes and origins in the unmonitored Se Kong, Se San, and Sre Pok Tributaries of the Mekong River.	Journal of Geophysical Research: Earth Surface, 123, 2-25.			
25	J. Zatarain Salazar, P.M. Reed, J.D. Quinn, M. Giuliani, A. Castelletti,	2017.	Balancing Exploration, Uncertainty and Computational Demands in Many Objective Reservoir Optimization.	Advances in Water Resources. 109, 196-210			
26	Y.Li, M. Giuliani, A. Castelletti,	2017.	A coupled human-natural system to assess the operational value of weather and climate services for agriculture	Hydrology and Earth System Science, 21(9), pp. 4693-4709.			
27	J.D. Quinn, P.M. Reed, M. Giuliani, A. Castelletti,	2017.	Rival framings: A framework for discovering how problem formulation uncertainties shape risk management trade-offs in water resources systems.	Water Resources Research.53(8), 7208-7233.			
28	S. Denaro, D. Anghileri, M. Giuliani, A. Castelletti,	2017.	Informing the operations of water reservoirs over multiple temporal scales by direct use of hydro-meteorological data	Advances in Water Resources, 103, 51-63.			
29	A. Cominola, M. Giuliani, D. Piga, A. Castelletti, A.E. Rizzoli,	2017.	A Hybrid Signature-based Iterative Disaggregation algorithm for Non-Intrusive Load Monitoring.	Applied Energy. 185, 331-344.			
30	M. Giuliani, Y. Li, A Cominola, S. Denaro, E. Mason, A. Castelletti,	2016.	A Matlab toolbox for designing Multi-Objective Optimal Operations of water reservoir systems.	Environmental Modelling & Software, 85, 293-298.			

31	M. Giuliani, Y. Li, A. Castelletti, C. Gandolfi,	2016.	A coupled human-natural systems analysis of irrigated agriculture under changing climate.	Water Resources Research. 52, 6928–6947.			
32	S. Culley, S. Noble, A. Yates, M. Timbs, S. Westra, H.R. Maier, M. Giuliani, A. Castelletti.	2016		Water Resources Research. 52, 6751–6768.			
33	R. Schmitt, S. Bizzi, A. Castelletti, Tracking multiple sediment cascades at the river network scale identifies controls and emerging patterns of sediment connectivity.	2016.	A bottom-up approach to identifying the maximum operational adaptive capacity of water resource systems to a changing climate.	Water Resources Research.52, 3941–3965,			
34	D. Anghileri, N. Voisin, A. Castelletti, F. Pianosi, B. Nijssen, D. Lettenmaier,	2016	Value of long-term streamflow forecast to reservoir operations for water supply in snow-dominated catchments.	Water Resources Research, 52, 4209–4225.			
35	D. Piga, A. Cominola, M. Giuliani, A. Castelletti, A.E. Rizzoli,	2016.	Sparse optimization for automated energy end use disaggregation.	IEEE Transactions on Control Systems Technology.24(3), 1044-1051.			
36	M. Giuliani, A. Castelletti, R. Fedorov, and P. Fraternali,	2016.	Using crowdsourced web content for informing water systems operations in snow-dominated catchments.	Hydrology and Earth System Science. 20, 5049-5062.			
37	J. Zatarain Salazar, P.M. Reed, J.D. Herman, M. Giuliani, A. Castelletti,	2016.	A diagnostic assessment of evolutionary algorithms for multi-objective reservoir control.	Advances in Water Resources 92, 172–185.			

38	M. Giuliani, D. Anghileri, A. Castelletti, P.N. Vu, R. Soncini-Sessa,	2016	Large storage operations under climate change: expanding uncertainties and evolving tradeoffs.	Environmental Research Letters, 11(3)	035009		
39	M. Giuliani, A. Castelletti, .	2016.	Is robustness really robust? How different definitions of robustness impact decision-making under climate change	Climatic Change.135(3), 409-424.			
40	S. Galelli, A. Castelletti,	2015.	A. Goedbled, High-Performance Integrated Control of water quality and quantity in urban water reservoirs.	Water Resources Research, 51(11), 9053–9072,			
41	M. Giuliani, F. Pianosi, A. Castelletti, .	2015.	Making the most of data: an information selection and assessment framework to improve water systems operation	Water Resources Research 51(11), 9073–9093.			
42	M. Giuliani, A. Castelletti, F. Pianosi, E. Mason, P.M. Reed, .	2016.	Curses, tradeoffs, and scalable management: advancing evolutionary multi-objective direct policy search to improve water reservoir operations	Journal of Water Resources Planning and Management.,1 42(2)	04015050		
43	A. Cominola, M. Giuliani, D. Piga, A. Castelletti, A.E. Rizzoli, .	2015.	Benefits and challenges of using smart meters for advancing residential water demand modeling and management: a review	Environmental Modeling and Software, 72, 198-214.			
44	M. Giuliani, A. Castelletti, F. Amigoni, and X. Cai,	2015	Multiagent Systems and Distributed Constraint Reasoning for regulatory mechanism design in water management, Journal of Water Resources Planning and Management.	Journal of Water Resources Planning and Management.14 1(4).	04014068.		
45	H.R. Maier, Z. Kapelan, J. Kasprzyk, J. Kollat, L.S. Matott, M.C. Cunha, G.C. Dandy, M.S. Gibbs, E. Keedwell, A. Marchi,	2014	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions.	Environmental Modelling and Software. 62, 271–299			

	A. Ostfeld, D. Savic, D.P. Solomatine, J.A. Vrugt, A.C. Zecchin, B.S. Minsker, E.J. Barbour, G. Kuczera, F. Pasha, A. Castelletti, M. Giuliani, P.M. Reed,						
46	S. Galelli, B.H. Greer, H.R. Maier, A. Castelletti, G.C. Dandy, M.S. Gibbs.	2014.	An evaluation framework for input variable selection algorithms for environmental data-driven models	Environmental Modelling and Software, 62, 33-51			
47	M. Giuliani, J.D. Herman, A. Castelletti, and P.M. Reed,	2014	Many-objective reservoir policy identification and refinement to reduce policy inertia and myopia in water management.	Water Resources Research. 50(4), 3355–3377			
48	R. Schmitt, S. Bizzi, and A. Castelletti,	2014.	Characterizing fluvial systems at basin scale by fuzzy signatures of hydromorphological drivers in data scarce environments.	Geomorphology . 214, 69-83			
49	B.W.J. Surridge, S. Bizzi, and A. Castelletti,	2014.	A framework for coupling explanation and prediction in hydroecological modelling	Environmental Modelling and Software, 61, 274-286,			
50	F. Pianosi, A. Castelletti, L. Mancusi, and E. Garofalo, ,	2014.	Improving flow forecasting by error correction modelling in altered catchment conditions	Hydrological Processes, 28(4), 2524-2534			
51	A. Castelletti, H. Yajima, M. Giuliani, R. Soncini Sessa, and E. Weber, . .	2014	. Planning the optimal operation of a multi-outlet reservoir with water quality and quantity targets	Journal of Water Resources Planning and Management, 140(4), 496–510,			
52	S. Galelli and A. Castelletti,	2013.	Assessing the predictive capability of randomized	Hydrology and Earth System			

			tree-based ensembles in streamflow modelling	Science, 17, 1-16,			
53	J S. Galelli and A. Castelletti, ,	2013.	Tree-based Iterative Input variable Selection for hydrological modelling	Water Resources Research, 49(7), 4295–4310			
54	M. Giuliani and A. Castelletti,	2013.	Assessing the value of cooperation and information exchange in large water resources systems by agent-based optimization	49(7), 3912–3926,			
55	A. Castelletti, F. Pianosi, and M. Restelli,	2013.	A multiobjective reinforcement learning approach to water resources systems operation: Pareto frontier approximation in a single run.	Water Resources Research, 49(6), 3476–3486,			
56	R. Fornarelli, S. Galelli, A. Castelletti, J.P. Antenucci, and C. Marti,	2013.	An empirical modeling approach to predict and understand phytoplankton dynamics in a reservoir affected by interbasin water transfers	Water Resources Research, 49, 3626–3641,			
57	D. Anghileri, A. Castelletti, F. Pianosi, R. Soncini Sessa, E. Weber,	2013.	Optimizing watershed management by coordinated operation of storing facilities,	Journal of Water Resources Planning and Management, 139(5), 492-500,			
58	F. Pianosi, A. Castelletti, M. Restelli,	2013.	Tree-based Fitted Q-iteration for Multi-Objective Markov Decision Processes in Water Resources Management.	Journal of Hydroinformatics, 15(2), 258-27,			
59	P. Fraternali, A. Castelletti, R. Soncini-Sessa, C. Vaca Ruiz, A.E. Rizzoli, Putting	2012.	Humans in the Loop: Social Computing for Water Resources Management,	Environmental Modelling and Software, 37, 68-77			
60	A. Castelletti, S. Galelli, M. Ratto, R. Soncini	2012	A general framework for Dynamic Emulation Modelling in environmental problems.	Environmental Modelling and Software, 34, 5-18,			

	Sessa, P.C. Young,						
61	M. Ratto, A. Castelletti, A. Pagano,	2012.	Emulation techniques for the reduction and sensitivity analysis of complex environmental models	Environmental Modelling and Software, 34, 1-4,			
62	A. Castelletti, F. Pianosi, X. Quach, R. Soncini Sessa,	2012.	Assessing water resources management and development in Northern Vietnam.	Hydrology and Earth System Science, 16, 189- 199,			
63	A. Castelletti, S. Galelli, M. Restelli, R. Soncini Sessa,.	2012.	Data-driven dynamic emulation modelling for the optimal management of environmental systems	Environmental Modelling and Software, 34, 30-43,			
64	A. Castelletti, J.P. Antenucci, D. Limosani. X. Quach, R. Soncini-Sessa,	2011.	Interactive response surface approaches using computationally intensive models for multiobjective planning of lake water quality remediation	Water Resources Research, 47	W095 34		
65	J A. Castelletti, S. Galelli, M. Restelli, R. Soncini Sessa,	2010.	Tree-based reinforcement learning for optimal water reservoir operation.	Water Resources Research, 46,	W095 07		
66	A. Castelletti, A.V. Lotov, R. Soncini Sessa,	2010.	Visualization-based multi-objective improvement of environmental decision-making using linearization of response surfaces.	Environmental Modelling and Software, 25(12), 1552-1564,			
67	A. Castelletti, R. Soncini-Sessa, H. Yajima,	2010	Optimal operation of the selective withdrawal system in Tono dam reservoir.	Annual Journal of Hydraulic Engineering, 54	JSCE		
68	A. Castelletti, F. Pianosi, R. Soncini Sessa, J.P. Antenucci,	2010.	A multi-objective response surface approach for improved water quality planning in lakes and reservoirs.	Water Resources Research, 46,	W065 02		

5.3.3 Published books/textbooks

No	Author	Year	Publications	Publishers/No, vol, page	ISSN/I SBN	Proof (*)	Notes
1	R. Soncini Sessa, A. Castelletti, E. Weber,	2007	Integrated and participatory water resources management: Theory,	Elsevier, Amsterdam, NL			
2	A. Castelletti, R. Soncini Sessa (eds.),	2006.	Topics on System Analysis and Integrated Water Resource Management	Elsevier, Amsterdam, NL			
3	A. Castelletti, A. Cominola, A. Facchini, M. Giuliani, P. Fraternali, S. Herrera, M. Melenhorst, I. Micheel, J. Novak, C. Pasini, A.E. Rizzoli, and C. Rottondi.	2018.	Gamified approaches for Water Management Systems: an Overview, in (P. Tsakalides, A. Panousopoulou, A. Tsagkatakis and L. Montestruque eds.) Water Smart Grids - A Cyber-physical Approach CRC Press,	Taylor & Francis Group			
4] A. Castelletti, F. Pianosi, R. Soncini-Sessa. Stochastic and Robust	2011	Control of Water Resource Systems: Concepts, Methods and Applications. in (L. Wang and H. Garnier eds.) System Identification, Environmental Modelling, and Control System Design,	Springer-Verlag, London, UK, pp. 383-401, Ch. 19			
5	A. Becker, R. Soncini-Sessa, A. Castelletti, F.F. Hattermann, P. Willems, P. Stalnacke, Y. Laurans, W.J. de Lange.	2009	How can models help implementing the Water Framework Directive? in (F.F. Hattermann and Z.W. Kundzewicz eds.) Water Framework Directive: Model supported Implementation: A Water Manager's Guide, IWA	Publishing, London, UK, pp. 11-54, Ch. 1			
6	A. Becker, A. Castelletti, G.D. Gooch, F.F. Hattermann, S. Kaden, Z.W. Kundzewicz, Y. Laurans, S. Muhar, R. Soncini-Sessa, P. Stalnacke, P. Willems,	2009.	Practical experiences from existing case studies and pilot river basins, in (F.F. Hattermann and Z.W. Kundzewicz eds.) Water Framework Directive: Model supported Implementation: A Water Manager's Guide, IWA	Publishing, London, UK, pp. 99-222, Ch. 6			

7	A. Castelletti, A. Nardini, R. Soncini Sessa, Decision making: a challenging task, in (R. Soncini Sessa, F. Cellina, F. Pianosi, E. Weber)	2007.	Integrated and participatory water resources management. Practice, Elsevier,	Amsterdam, NL			
8	J E.Betti, A. Castelletti, F. Cellina, R. Soncini Sessa, E. Weber, Model identification, in (R. Soncini Sessa, F. Cellina, F. Pianosi, E. Weber)	2007.	Integrated and participatory water resources management. Practice, Elsevier,	Amsterdam, NL,			
9	E.Betti, A. Castelletti, F. Cellina, R. Soncini Sessa, E. Weber, The control problem, in (R. Soncini Sessa, F. Cellina, F. Pianosi, E. Weber)	2007.	Integrated and participatory water resources management. Practice, Elsevier,	Amsterdam, NL			
10	J A. Castelletti, F. Cellina, F. Pianosi, R. Soncini Sessa, Criteria and Indicators, in (R. Soncini Sessa, F. Cellina, F. Pianosi, E. Weber)	2007.	Integrated and participatory water resources management. Practice, Elsevier,	Amsterdam, NL			
11	A. Castelletti, R. Soncini Sessa, .	2006	A Participatory and Integrated Planning Procedure for Decision Making in Water Resource Systems, in (A. Castelletti, R. Soncini Sessa eds.) Topics on System Analysis and Integrated Water Resource Management, 3-24, Elsevier,	Amsterdam, NL			
12	P.C. Young, A. Castelletti, F. Pianosi,	2006.	The Data-Based Mechanistic Approach in Hydrological Modelling, in (A. Castelletti, R. Soncini Sessa eds.) Topics on System Analysis and Integrated Water Resource	Amsterdam, NL			

			Management, 27-48, Elsevier,				
13	A. Castelletti, F. Cellina, R. Soncini Sessa, E. Weber,	2006.	Comprehensive Testing and Application of the PIP Procedure: the Verbano Project Case Study, in (A. Castelletti, R. Soncini Sessa eds.) Topics on System Analysis and Integrated Water Resource Management, 223-241, Elsevier,	Amsterdam, NL.			

I pledge and take responsibility for the accuracy of the information provided in this scientific resume.

APPLICANT's INSTITUTION

(Sign, full name, and sealed)

....., *date/month/year*

APPLICANT

(Sign, full name)