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| Name | Giuliano Di Baldassarre |
| Year of birth | 1978 |
| Nationality | Italian |
| Present position | Senior Lecturer |
| Years with firm | From May 2009 |

EDUCATION

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| 2002 | - MSc in Environmental Engineering, University of Bologna, Italy (<i>graduated summa cum laude; 100/100 with distinction</i>) |
| 2006 | - PhD in Hydraulic Engineering, Milano University of Technology, Italy |
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EMPLOYMENT RECORD

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| Current | - Senior Lecturer, Department of Hydroinformatics and Knowledge Management, <i>UNESCO-IHE Institute for Water Education, Delft, The Netherlands</i> |
| 2008 - 2009 | - Postdoctoral Researcher, <i>University of Bristol, United Kingdom</i> |
| 2006 - 2008 | - Postdoctoral Fellow, <i>University of Bologna, Italy</i> |
| 2002 - 2006 | - Research and Teaching Assistant (PhD Fellow), <i>University of Bologna, Italy</i> |
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KEY QUALIFICATIONS

Giuliano Di Baldassarre is currently working as a Senior Lecturer at the UNESCO-IHE, Delft. He has been the Coordinator and/or Principal Investigator of international multidisciplinary research projects, such as the EC FP7 project KULTURisk, dealing with the prevention of water-related disasters (Total budget 4.5 Million Euros; 11 partners from 6 different countries) and the UPaRF project ACCION, dealing with the adaptation to global changes in the Nile basin (Total budget 0.4 Million Euros; 6 partners from 6 different Nile countries).

Dr. Di Baldassarre is Author of 27 papers on peer-reviewed journals in addition to more than 40 publications as invited book chapters and conference proceedings. His papers have been cited around 180 times and his current H-index is 9 (Scopus, October 2011). He has been awarded for his studies and research with a number of prizes, such as the Young Scientists Outstanding Poster Presentation (YSOPP) Award by the European Geoscience Union (EGU, 2006). Also, he has been invited to give seminars, lectures and training courses in the Dominican Republic, United Kingdom, Italy, Mexico, Sweden, and Egypt.

Giuliano Di Baldassarre serves the scientific community as an Editor of "Hydrology and Earth System Sciences", Guest Editor of "Physics and Chemistry of the Earth", and "Hydrological Processes", frequent Reviewer for many international scientific journals, Chairman/Convener of conference sessions at the EGU Assembly and World Landslides Forum, as Member of AGU, EGU, IAHS, PUB, Sense Research School and the UNESCO Task Force for IHP-VIII.

MAIN DISCIPLINE / SPECIALISATION

Flood Risk Management under Uncertainty, Statistical Hydrology, Flood Modeling and Remote Sensing, Water-related Disasters and Hydrological Change



AFFILIATIONS

Member of
European Geosciences Union (EGU)
American Geophysical Union (AGU)
International Association Hydrological Sciences (IAHS)
IAHS-PUB international working group on uncertainty analysis
UNESCO Task Force for IHP-VII (International Hydrological Programme)

ACADEMIC AWARDS

2010 Torricelli Award, one of the best Italian water scientists (Italian Hydraulic Association, GII)
2006 Young Scientist's Outstanding Paper Presentation Award, by European Geosciences Union
2005 Young Scientist's Travel Award for Europeans, by European Geosciences Union
2003 Best Engineering Student Award, by Rotary Club Bologna
2002 Graduated summa cum laude at the University of Bologna (100 out of 100 with distinction)

EXPERIENCE RECORD

(Relevant and recent)

2008 - 2011 Supervisor/advisor of 8 PhD students on flood modelling and uncertainty, management of water-related disasters, hydraulic modelling and remote sensing data

2009 - 2011 Supervisor/advisor of 9 MSc theses on Water Science and Engineering at the UNESCO-IHE Delft. Themes: wetlands and floodplain modelling, statistical hydrology, flood forecasting, hydraulic modelling

2002 - 2008 Supervisor/advisor of 29 MSc/BSc theses on Civil and Environmental Engineering at the University of Bologna. Themes: hydraulic works, river basin management, flood modeling.

2009 External Examiner for 5 PhD candidates at the University of Roma 3, Italy

2005 - 2007 Professional training of Haitian and Dominican engineers within the capacity building project on trans-boundary river basin management in Haiti and the Dominican Republic

2002 - 2008 Teaching assistant of the courses on hydrology, hydraulic works, and river basin management for the MSc programme on Civil and Environmental Engineering at the University of Bologna

2004 - 2008 Lecturer for master courses offered by the University of Bologna to Latin-American junior engineers, international cooperation initiative financed by the Italian Government and developed by the Department of Hydraulic Engineering of the University of Bologna

2008 Lecturer of the Winter School on "uncertainty in hydrological data" in Bertinoro



Professional Experience

2002 - 2008 Hydraulic Engineer, part-time consultant for flood risk analysis and design of river structures, Bologna, Italy.

Professional experience on river basin management, flood risk analysis, design of river structures, water quality projects, urban drainage system and water treatment, etc.

Projects

2009 - 2011 Coordinator of the UPaRF project "ACCION (adaptation to climate change impact on the Nile river basin)"; 6 partners from 6 different Nile countries

2009 - 2011 Coordinator of the EU FP7 project I KULTURisk (Knowledge-based approach to develop a cULTUre of Risk prevention); 11 partners from 6 different countries

2009-2010 Involved in a number of international projects, including FP7 SQUAREHAB and FP7 WETwin

2008 - 2009 Involved in the NERC project: "Local flood forecasting capability for fluvial and estuarine floods: use of GridStix for constraining uncertainty in predictive models" coordinated by Prof. Keith Beven

2002 - 2008 Involved in several national and international projects coordinated by Prof. Alberto Montanari or Prof. Armando Brath or Prof. Pierluigi Claps



Conducted Short Courses and Conferences

- 2007 Chairman of the session on Modeling, computer-assisted simulations and mapping of dangerous phenomena at the European Geosciences Union, 4th General Assembly, Vienna, Austria.
- 2008 Convener of the session on Floodplain mapping and flood prevention techniques at the European Geosciences Union, 5th General Assembly, Vienna, Austria.
- Lecturer of the Winter School on “Uncertainty in Hydrological data”, organized by the University of Bologna, Italy.
- 2009 Convener of the session on Floodplain mapping and flood prevention techniques in the 21st Century at the European Geosciences Union, 6th General Assembly, Vienna, Austria.
- PISP Tailor-made course for Indonesians on Water Resources Management in the Po River Valley (Italy, 6-11 October 2009).
- 2010 Convener of the session on Flood management at the European Geosciences Union, 7th General Assembly, Vienna, Austria.
- Coordinator of the short course on "New data sources to support flood modeling: remote sensing, wireless network, and hybrid techniques at the UNESCO-IHE Institute for Water Education, Delft
- 2011 Convener of the session on Floodplain processes and inundation modelling and Co-convener of the session on Remote Sensing and Catchment Hydrology at the European Geosciences Union, 8th General Assembly, Vienna, Austria.
- 2011 Coordinator of the short course on "New data sources to support flood modeling: remote sensing, wireless network, and hybrid techniques at the UNESCO-IHE Institute for Water Education, Delft

LANGUAGE PROFICIENCY

| <i>Language</i> | <i>Reading</i> | <i>Speaking</i> | <i>Writing</i> |
|-----------------|----------------|-----------------|----------------|
| Italian | Mother tongue | Mother tongue | Mother tongue |
| English | Excellent | Excellent | Excellent |
| French | Moderate | Moderate | Moderate |
| Dutch | In progress | In progress | In progress |



PUBLICATIONS

HIGHLIGHTS

- Editor of the Special Issue on Physics and Chemistry of the Earth on *Recent advances in mapping and modelling flood processes in lowland areas*
- Author of the UNESCO-IFI (International Flood Initiative) book on *Flood Inundation Modelling*, to be published by Cambridge University Press
- Author of 27 Papers on peer-reviewed journals (see below)
- Scopus: H-index = 9; Number of citations = 180

JOURNAL PAPERS

ISI Peer Reviewed

Di Baldassarre, G., M. Elshamy, A. van Griensven, E. Soliman, M. Kigobe, P. Ndomba, J. Mutemi, F. Mutua, S. Moges, Y. Xuan, D. Solomatine, S. Uhlenbrook, (2011). Future Hydrology and Climate in the River Nile Basin: a review, *Hydrological Sciences Journal*, 56(2), 199-211.

Di Baldassarre, G., G. Schumann, L. Brandimarte, P.D. Bates (2011). Timely Low Resolution SAR Imagery to Support Floodplain Modelling: a Case Study Review, *Surveys in Geophysics*, 32(3), 255-269, doi: 10.1007/s10712-011-9111-9.

Brandimarte, L., and G. Di Baldassarre (2011). Uncertainty in design flood profiles derived by hydraulic modelling, *Hydrology Research*, in press.

Padi, P., Di Baldassarre, G., A. Castellarin (2011). Floodplain management in Africa: large scale analysis of flood data, *Physics and Chemistry of the Earth*, Special issue on Recent advances in mapping and modelling flood processes in lowland areas, doi:10.1016/j.pce.2011.02.002.

Di Baldassarre, G., P. Claps, (2011). A hydraulic study on the applicability of flood rating curves, *Hydrology Research*, 42 (1), 10–19, doi: 10.2166/nh.2010.098.

Prestininzi, P., Di Baldassarre, G., G. Schumann, P.D. Bates (2011). Selecting the appropriate hydraulic model structure using low-resolution satellite imagery, *Advances in Water Resources*, 34(1), 38-46, doi:10.1016/j.advwatres.2010.09.016.

Di Baldassarre, G., F. Laio, A. Montanari (2011). Effect of observation errors on the uncertainty of design floods, *Physics and Chemistry of the Earth*, doi: 10.1016/j.pce.2011.05.001.

Di Baldassarre, G., A. Montanari, H. Lins, D. Koutsoyiannis, L. Brandimarte, and G. Bloeschl (2010). Flood fatalities in Africa: from diagnosis to mitigation, *Geophysical Research Letters*, 37, L22402, doi:10.1029/2010GL045467.

Di Baldassarre, G., G. Schumann, P. Bates, J. Freer, K. Beven, (2010). Floodplain mapping: a critical discussion on deterministic and probabilistic approaches, *Hydrological Sciences Journal*, 55(3), 364-376.

Schumann, G., G. Di Baldassarre, D. Alsdorf, P.D. Bates (2010). Near real-time flood wave approximation on large rivers from space: application to the River Po, Northern Italy, *Water Resources Research*, 46, W05601.

Brandimarte, L., Di Baldassarre, G., Bruni, G., D'Odorico, P., Montanari, A. (2010). Relation between the North-Atlantic Oscillation and hydroclimatic conditions in Mediterranean areas, *Water Resources Management*, doi:10.1007/s11269-010-9742-5.



- Schumann, G., G. Di Baldassarre (2010). The direct use of radar satellites for event-specific flood risk mapping, *Remote Sensing Letters*, 1(2), 75-84.
- Castellarin, A., G. Di Baldassarre, A. Brath (2010). Floodplain management strategies for flood attenuation in the River Po, *River Research and Applications*, doi: 10.1002/rra.1405.
- Di Baldassarre, G., G. Schumann, P.D. Bates (2009). A technique for the calibration of hydraulic models using uncertain satellite observations of flood extent, *Journal of Hydrology*, 367, 276-282.
- Laio, F., G. Di Baldassarre, A. Montanari (2009). Model selection techniques for the frequency analysis of hydrological extremes, *Water Resources Research*, 45, W07416.
- Di Baldassarre, G., A. Montanari, (2009). Uncertainty in river discharge observations: a quantitative analysis, *Hydrology and Earth System Sciences*, 13, 913-921.
- Di Baldassarre, G., G. Schumann, P.D. Bates (2009). Near real time satellite imagery to support and verify timely flood modelling, *Hydrological Processes*, 23, 799-803.
- Castellarin, A., G. Di Baldassarre, P.D. Bates, A. Brath (2009). Optimal cross-section spacing in Preissmann scheme 1D hydrodynamic models, *Journal of Hydraulic Engineering*, 135 (2), 96-105.
- Di Baldassarre, G., A. Castellarin, A. Montanari, A. Brath (2009). Probability weighted hazard maps for comparing different flood risk management strategies: a case study, *Natural Hazards*, 50(3), 479-496.
- Di Baldassarre, G., F. Laio, A. Montanari (2009). Design flood estimation using model selection criteria, *Physics and Chemistry of the Earth*, Special Issue on Recent developments of statistical tools for hydrological application, 34(10-12), 606-611.
- Schumann, G., G. Di Baldassarre, P.D. Bates (2009). The utility of space-borne radar to render flood inundation maps based on multi-algorithm ensembles, *IEEE Transactions on Geoscience and Remote Sensing*, 47, 8(2), 2801-2807.
- Di Baldassarre, G., A. Castellarin, A. Brath (2009). Analysis on the effects of levee heightening on flood propagation: some thoughts on the River Po, *Hydrological Sciences Journal*, 54(6), 1007-1017.
- Brandimarte, L., A. Brath, A. Castellarin, G. Di Baldassarre (2009). Isla Hispaniola: a trans-boundary flood risk mitigation plan, *Physics and Chemistry of the Earth*, Special Issue on Integrated water resources assessment, with special focus on developing countries, 34, 209-218.
- Campedel, M., G. Antonioni, V. Cozzani, G. Di Baldassarre (2008). A framework for the assessment of the industrial risk caused by floods, *Safety, Reliability and Risk Analysis: Theory, Methods and Applications*, London, Taylor & Francis, 2749-2755.
- Horritt, M.S., G. Di Baldassarre, P.D. Bates, A. Brath (2007). Comparing the performance of 2-D finite element and finite volume models of floodplain inundation using airborne SAR imagery, *Hydrological Processes*, 21, 2745-2759.
- Di Baldassarre, G., A. Brath, A. Montanari (2006). Reliability of different depth-duration-frequency equations for estimating short-duration design storms, *Water Resources Research*, 42, W12501.
- Di Baldassarre, G., A. Castellarin, A. Brath (2006). Relationships between statistics of rainfall extremes and mean annual precipitation: an application for design storm in northern central Italy, *Hydrology and Earth System Sciences*, 10, 589-601.

**Invited book chapters**

Brath, A., G. Di Baldassarre, (2006). Elementi di modellistica numerica dei fenomeni di allagamento (in Italian), in *Tecniche per la Difesa dell'Inquinamento*, edited by G. Frega, ISBN-10: 88-6093-004-9, Nuova Editoriale Bios, Cosenza, 587-605.

Castellarin, A., G. Di Baldassarre, P.D. Bates, A. Brath, (2008). Optimal geometric description in one-dimensional hydraulic models, *New Topics in Water Resources Research and Management* (Edited by H.M. Andreassen), Nova Science Publishers, Hauppauge NY, ISBN: 1600219748, 235-259.

Di Baldassarre, G., A. Castellarin, A. Brath, (2008). Caratterizzazione ottimale della geometria dei corsi d'acqua naturali per lo studio della propagazione delle onde di piena (in Italian), in *Tecniche per la Difesa dell'Inquinamento*, edited by G. Frega, Nuova Editoriale Bios, Cosenza.

Conference Proceedings

Di Baldassarre, G., A. Brath, A. Montanari, (2004). Effectiveness of different approaches for estimating the design storm when referring to short storm durations, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 6, 831, ISSN 1029-7006.

Brath, A., G. Di Baldassarre, (2004). Modelli numerici bidimensionali di allagamento: effetti del grado di dettaglio dell'informazione topografica (in Italian), *Proceedings of the XXIX Italian Conference on Hydraulics and Hydraulic Works*, Trento, 7-10 September 2004, Edited by BIOS, Vol. 3, 69-75, ISBN: 88-7740-382-9.

Di Baldassarre, G. A. Brath, A. Montanari, (2004). Efficienza di formulazioni analitiche della curva di possibilità climatica per la stima della sollecitazione di progetto di reti di drenaggio urbano (in Italian), *Proceedings of the XXIX Italian Conference on Hydraulics and Hydraulic Works*, Trento, 7-10 September 2004, Edited by BIOS, Vol. 1, 805-813, ISBN: 88-7740-382-9.

Brath, A., G. Di Baldassarre, (2005). Effects of topographic data resolution on a two-dimensional hydraulic model. *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 7, 1159, ISSN 1029-7006.

Di Baldassarre, G., A. Montanari, (2005). How much observed river flow data are uncertain? A theoretical analysis and an attempt to asses the effect on parameterization and performance evaluation of rainfall-runoff models. *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 7, 597, ISSN 1029-7006.

Di Baldassarre, G., (2005) A regional model for estimating the design storm in Northern-Central Italy, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 7, 1155, ISSN 1029-7006.

Brath, A., G. Di Baldassarre, (2006). Modelli numerici per la simulazione di inondazioni fluviali (in Italian), *Proceedings of the National Conference on hydrological risk in Italy*, L'Acqua, Vol. 4, 7-16 ISSN: 1125-1255.

Di Baldassarre, G., A. Castellarin, M.S. Horritt, P.D. Bates, A. Brath, (2006). Hydraulic 1D modelling: a cost-and-benefit analysis for optimising topographical surveys, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 8, 8204, ISSN 1029-7006.

Di Baldassarre, G., A. Castellarin, A. Montanari, A. Brath, (2006). A regional approach for estimating flow duration curves at ungauged sites, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 8, 9059, ISSN 1029-7006.

Di Baldassarre, G., A. Montanari, A. Brath, (2006). Assessing the effectiveness of several depth-duration-frequency relationships at regional scale, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 8, 3768, ISSN 1029-7006.

Horritt, M.S., G. Di Baldassarre, P.D. Bates, A. Brath, (2006). Evaluation of finite



volume and finite element models for predicting flood inundation, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 8, 2406, ISSN 1029-7006.

Di Baldassarre, G., A. Brath, P.D. Bates, M.S. Horritt, (2006). Mappatura ASAR delle aree inondate per la calibrazione e la verifica dei modelli bidimensionali di allagamento (in Italian), *Proceedings of the XXX Italian Conference on Hydraulics and Hydraulic Works*, Roma 11-16 September 2006, Edited by Casa Editrice Università La Sapienza, Publication n. 71, ISBN 978-88-87242-81-2.

Di Baldassarre, G., A. Castellarin, A. Brath, P.D. Bates, M.S. Horritt, (2006). Modellistica idraulica monodimensionale: alcune considerazioni applicative sul grado di dettaglio ottimale della descrizione topografica (in Italian), *Proceedings of the XXX Italian Conference on Hydraulics and Hydraulic Works*, Roma 11-16 September 2006, Edited by Casa Editrice Università La Sapienza, Publication n. 26, ISBN 978-88-87242-81-2.

Di Baldassarre, G., Laio, F. (2007). Model selection criteria for flood frequency analysis, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract H11C-0666.

Di Baldassarre, G., Castellarin, A., Horritt, M.S., Bates, P.D., Brath, A. (2007). A numerical approach for identifying the optimal cross-section distance in one-dimensional hydraulic models, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 9, 898, ISSN 1029-7006.

Di Baldassarre, G., A. Castellarin, A. Montanari, (2007). Flood-risk mapping: numerical analysis on the effects of a lateral weir, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 9, 2004, ISSN 1029-7006.

Brandimarte, L., A. Brath, A. Castellarin, G. Di Baldassarre, E. Arizaga, E. Fedeli, (2007). Institutional capacity-building (ICB): an international cooperation initiative for the water resources management in Haiti and the Dominican Republic, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 9, 9490, ISSN 1029-7006.

Di Baldassarre, G., F. Laio, A. Montanari, (2007). Model selection techniques for flood frequency analysis, 9th Plinius Conference on Mediterranean Storm, Varenna 10-13 Settembre, European Geosciences Union, PLINIUS9-A-00135.

Di Baldassarre, G., A. Castellarin, A. Montanari, A. Brath (2008). Studio di scenari di inondazione controllata al di fuori delle arginature maestre (in Italian), *Proceedings of the XXXI Italian Conference on Hydraulics and Hydraulic Works*, Perugia, September 2008.

Castellarin, A., G. Di Baldassarre, A. Brath (2008). Analisi numerica della capacità di laminazione del sistema golendale del corso medio vallivo del Po (in Italian), *Proceedings of the XXXI Italian Conference on Hydraulics and Hydraulic Works*, Perugia, September 2008.

Di Baldassarre, G., F. Laio, A. Montanari (2008). Criteri di selezione del modello probabilistico nell'analisi di frequenza degli estremi idrologici (in Italian), *Proceedings of the XXXI Italian Conference on Hydraulics and Hydraulic Works*, Perugia, September 2008.

Campedel, M., G. Antonioni, V. Cozzani, G. Di Baldassarre, (2008). A framework for the assessment of the industrial risk caused by floods, *Proceeding of the ESREL 2008 Conference*, 22-25 September, Valencia, 2008.

Di Baldassarre, G., Castellarin, A., Montanari, A., Brath, A. (2008). Flood risk management: 2D inundation modelling for evaluating resilience strategies, *Geophysical Research Abstracts*, EGU Fall Meeting, Vol. 10, 1236, ISSN 1029-7006.

Di Baldassarre, G., Brandimarte, L., Brath, A., Castellarin, A., Jean Jeune, K., Perez, R. (2008). Trans-boundary river basin management: an experience in Haiti and Dominican



Republic, EGU Fall Meeting, Vol. 10, 10031, ISSN 1029-7006.

Campedel, M., Cozzani, V., Di Baldassarre, G. (2008). Flood risk assessment for industrial plants. A case study, EGU Fall Meeting, Vol. 10, 3614, ISSN 1029-7006.

Di Baldassarre, G., Brath, A. (2008). Flood inundation models for reconstructing historical events and for assessing the effects of levee heightening, EGU Fall Meeting, Vol. 10, 10101, ISSN 1029-7006.

Di Baldassarre, G., PD Bates, EM Stephens, (2008). Evaluation of 1D and 2D flood inundation models of the Lower Dee by using satellite flood imagery, Second NERC FREE Science Meeting, 12-13 November 2008.

Di Baldassarre, G., G. Schumann, and P. Bates (2009). Calibration of hydraulic models using uncertain satellite observations, Geophysical Research Abstracts, EGU Fall Meeting, Vol. 11, 5178, ISSN 1029-7006.

Schumann, G., G. Di Baldassarre, L. M. Stephens, and P. D. Bates (2009). Augmenting the direct use of remote sensing in flood management, Geophysical Research Abstracts, EGU Fall Meeting, Vol. 11, 1437, ISSN 1029-7006.

Di Baldassarre, G., G. Schumann, and P. Bates (2009). Course resolution satellite imagery to support flood inundation modelling in near real time, Geophysical Research Abstracts, EGU Fall Meeting, Vol. 11, 12234, ISSN 1029-7006.

Di Baldassarre, G., (2009). New tools for comparing different strategies for flood risk management, Geophysical Research Abstracts, EGU Fall Meeting, Vol. 11, 3471, ISSN 1029-7006.

Di Baldassarre, G., G. Schumann, and P. Bates (2010). Coarse Resolution Satellite Images to Support Hydraulic Modelling: Potentialities and Uncertainties, 9th International Conference on Hydroinformatics, China, September 2010.

Kigobe, M., A. van Griensven, DL Shrestha, D. Solomatine, G. Di Baldassarre, (2010). Assessing the suitability of two model structures for basin resources estimation in the Mpologoma basin, within the Upper Nile, Proceeding of the International Congress on Environmental Modelling and Software, Ottawa, Ontario, Canada, July 2010.

Di Baldassarre, G., and the ACCION team (2010). Cascading uncertainty from climate to hydrological models: some thoughts on the River Nile, Geophysical Research Abstracts, Vol. 12, EGU2010-15279.

Di Baldassarre, G., G. Schumann, and P. Bates (2010). Calibration of inundation models using uncertain SAR-derived maps of flood extent, Geophysical Research Abstracts, Vol. 12, EGU2010-13539.

Di Baldassarre G., et al. (2010). Floodplain modelling using uncertain satellite observations of inundation extent, EGU Leonardo Conference on "Looking at Catchments in Colors". Luxemburg, November 2010.

Papers in other journals

Castellarin, A., G. Di Baldassarre, A. Brath, G. Galeati, (2005). Legame sperimentale tra piovosità annuale e regime di frequenza degli estremi di precipitazione: applicazione alla stima della pioggia di progetto (in Italian), L'Acqua, ISSN: 1125-1255, Vol. 3, 9-22.

Brath, A., G. Di Baldassarre, (2006). Modelli matematici per l'analisi della sicurezza idraulica del territorio (in Italian), L'Acqua, ISSN: 1125-1255, Vol. 6, 39-48.

Brath, A., G. Di Baldassarre, (2006). Modellistica di allagamento: effetti del grado di dettaglio dell'informazione topografica nella simulazione numerica bidimensionale (in



Italian), *L'Acqua*, ISSN: 1125-1255, Vol. 1, 25-31.

Brath, A., G. Di Baldassarre (2007). LiDAR e immagini ASAR per la messa a punto di una affidabile modellistica bidimensionale dei fenomeni di allagamento (in Italian), *Ambiente e Territorio*, Vol. 6, 38-45, ISSN: 1971-5455.

Brath, A., G. Di Baldassarre (2008). Uso della topografia laser scanning e di immagini ASAR nella modellistica bidimensionale dei fenomeni di inondazione fluviale (in Italian), *L'Acqua*, Vol. 1, 11-22, ISSN: 1125-1255.

Brath, A., A. Castellarin, G. Di Baldassarre, A. Domeneghetti (2010). Strategic guidelines for flood risk mitigation along the middle-lower reach of the river Po, *L'Acqua*, 2-2010; ISSN: 1125-1255.

Schumann, G., G. Di Baldassarre, P.D. Bates (2010). Fuzzy flood mapping, playing it safe?, *Sensed - Remote Sensing and Photogrammetry Society*, 36, 10-11.

Brath, A., A. Castellarin, G. Di Baldassarre, A. Domeneghetti (2010). Nuovi indirizzi per la difesa dal rischio idraulico lungo l'asta fluviale del Fiume Po (in Italian), *Biologia Ambientale*.

Di Baldassarre, G., A. Castellarin, A. Brath (2009). La descrizione topografica dell'alveo nella modellistica idraulica monodimensionale (in Italian), *L'Acqua*, Vol. 4, 9-20.

Monographs

Di Baldassarre, G. (2002). Un approccio regionale per la stima della curva di durata delle portate in sezioni fluviali non strumentate (in Italian), Master Degree Thesis, Alma Mater Studiorum Università di Bologna, Bologna, 112 pages.

Di Baldassarre, G. (2006). Modelli numerici per la simulazione di inondazioni fluviali (in Italian), Ph.D. Thesis, Politecnico di Milano, Milano, 111 pages.

Di Baldassarre, G., and G. Schumann (2011). *Recent advances in mapping and modelling flood processes in lowland areas*. Special Issue of *Physics and Chemistry of the Earth*, Volume 36, Issues 7-8, Pages 221-334.

Di Baldassarre, G. (2011). *Flood Inundation Modelling*. UNESCO-IFI Book Series on Flood Management in a Changing Climate, Cambridge University Press, forthcoming.