

Curriculum vitae

1) Introduction

Name: Bocchiola Daniele
Date and place of birth: Milano, Italy, 18-1-1972
Gender: Male
Nationality: Italian

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Languages

Mother tongue: Italian
Good knowledge of English, spoken and written
Fulfilment of TOEFL exam in 1995 with a score of 570/ 680, then improved travelling
Good knowledge of Spanish spoken and written, acquired studying and travelling
Basic knowledge of French



Milano, May 11th 2015.

Daniele Bocchiola

2) Higher Education and career

i) **PhD** in Hydraulic Engineering and Hydrology 7th March 2003 at Politecnico di Milano, with **Special Mention** from the PhD board of reviewers. My doctorate was conducted in the field of **Data Assimilation** and remote sensing with the title "**A methodology for stochastic assimilation of rainfall rates data from multiple remote sensors**". Tutor: Prof. Renzo Rosso. Partially fulfilled at MIT, Cambridge, MA, USA. Advisors: Prof. Dara Entekhabi, Prof. Dennis McLaughlin. **Special mention** of the board for PhD.

ii) **Master's Degree in Environmental Engineering** at Politecnico di Milano, September 1991 to July 23th 1998, with full marks (91/100). My Degree master thesis was carried in the field in environmental hydraulics and fluid mechanics with the title "**A probe for shear stress measurement in water cylindrical currents**" tutor Prof. Giovanni Menduni. **Special mention** of the board for MS and publication of the results on ASCE J. Hydraulic Eng. The thesis was carried in the framework of a cooperation with the Research and Development division of the "Whirlpool Italy" company.

Main topics (exams) included in the environmental degree (5 years): Soil mechanics, Hydraulic Soil defence, Hydraulic, Physical and statistical Hydrology, Urban water infrastructures, Marine hydraulics, Topography, Photogrammetry, Power production machines, Environmental Impact Assessment.

iii) **High schools** at LSS Donatelli (Diploma in Science), Milano 1986-1991 (5 years as requested).

3) Experience and Employment history

i) Currently Charged as **Assistant Professor** (permanent staff) at Politecnico di Milano, Hydraulic Division, starting from June/16/05. Abilitation as *Associate Professor* from Italian Ministry for University, MIUR, February 2013.

4) Mission

My field of interest in research covers a broad range of issues, with particular focus upon impact of ongoing and prospective climate change on water resources, natural hazard, agriculture, and cryosphere in the European Alps, the Andes, the Hindu-Kush Karakorum the Himalaya, the Caribbeans, Haiti.

Water science and crop

- 1) Data assimilation and data fusion of multi sensor measured climatic variables;
- 2) Climate change impact upon hydrology and water resources management;
- 3) Impact of climate change upon agriculture and crop yield.
- 4) Conflictual use of water among nations, and game theory approach.

Hydro-geo hazard

- 5) Statistics of extremes, rainfall, floods and snowfall precipitation, and regionalization techniques;
- 6) Floods risk assessment, flood mapping, flood proofing, reservoirs' management;
- 7) Snow avalanche mapping.

Eco-Hydrology

- 8) Hydro-ecological and morphological effect of dead wood in rivers;
- 9) Desertification of Mediterranean environment;
- 10) Wildlife Alpine species dynamics under climate change;
- 11) Ecological effects of snow and avalanches.
- 12) Waterborne pathogens.

Cryospheric sciences

- 13) Hydrological modelling of high altitude catchments;
- 14) Statistical and physical modelling of snow cover in high altitude areas;
- 15) Experimental on site investigation of ice and snow dynamics, and hydrological fluxes;
- 17) Modelling of mass budgets of glacierized catchments;
- 18) Investigation of climate and cryospheric trends under climate change.

5) Research Achievement

i) I'm currently Charged as **Assistant Professor** (permanent staff) at Politecnico di Milano, Hydraulic Division, starting from June/16/05.

6) Publications list

At now, I have developed and/or contributed to the following publications.

i) Books, chapters, reports

- 1) Lucchini, F. S., *Central Valtellina, from Sondrio to Livigno [La Valtellina orientale. Da Sondrio a Livigno]*, by care of P.Pileri, Edited by: Camera di Commercio, Industria, Artigianato ed Agricoltura di Sondrio, based on the research carried by the students of the course of *Landscape Engineering*, a.y. 1996/1997, Politecnico di Milano, Lito Ignizio, Sondrio, 1997. Cooperator in the writing of introductory Chapters (acknowledge in foreword). **Published**
- 2) Bocchiola, D., Rosso, R., *River currents and assessment of flooding areas*, In: Manual of soil hydraulic defence, chapter 3, Italian Language, Edited by R. Rosso, CUSL Publishing, Milano, 2002. **Published**
- 3) Bocchiola, D., Grossi, G., Rosso, R., *Hydro-meteorologic Monitoring*, In: Manual of soil hydraulic defence, par. 5.2, Italian Language, Edited by R. Rosso, CUSL Publishing, Milano, 2002. **Published**
- 4) Bocchiola, D., Rosso, R., *Methods and models of real time flood forecasting*, In: Manual of soil hydraulic defence, par. 5.5, Italian Language, Edited by R. Rosso, CUSL Publishing, Milano, 2002. **Published**
- 5) Rosso, R., Rulli, M.C., Bocchiola, D., Bozzi, S., Spada, M. (2004). Studio della risposta idrologica e sedimentologica dei bacini sollecitati da incendi boschivi [*Hydrological and Sedimentological Response within forest fire affected watersheds*] INTERREG IIIB, DESERTNET. Final Report.
- 6) Bocchiola, D., De Michele, C., Ghezzi, A., Gropelli, B., Rosso, R. e Rulli, MC. (2008). *Kioto Project 2004-2008, Impact of Climate Change on Italy: final report* [Progetto Kioto 2004-2008, impatto del cambio climatico sul territorio italiano: report finale]. Research Line 1: Climatology, Group 4, Chapter 1, 19-51. Edited by Fondazione Lombardia per L'Ambiente and Regione Lombardia. **Published**.
- 7) Bocchiola, D., *Merging Multi Frequency Remote Sensing Data for Snow Water Equivalent Estimation*, In: Chang, N.B., *Advances in Hydrological Remote Sensing for Monitoring Global Changes*, J. Wiley & Sons, Ch. 11, **Invited Contribution, In preparation**.
- 8) Romang, H., Fuchs, S., Holub, M., Faug, T., Naaïm, M., Tacnet, J., Durand, Y., Giraud, G., Dall'Amico, M., Larcher, M., Rigon, R., Kveldsvik, V., Sandersen, F., Bocchiola, D., Rulli, C., Bischof, N., Bründl, M., Rheinberger, C., Rhyner, J., Barbolini, F., Cappabianca, F. (2008): *Best Practice Handbook*, Deliverable 5.4, Integral risk management of snow avalanches, rock avalanches and debris flow in Europe, IRASMOS. EU, 148 S.
- 9) Mari, F., Gallo, M., Bocci, A., Buraschi, E., Vuillermoz, E., Milanese, D., Decè, L., Melis, M.T., Ferrari, E., Anfodillo, T., Poretti, G., Calligaris, C., Smiraglia, C., Diolaiuti, G., Bocchiola, D., Lami, A., Cristofanelli, P., Palazzi, E., Rossi, L., *Integrated park management plan (IPMP) for the Central Karakorum National Park CKNP*, Edited by EVK2CNR, November 2012.
- 10) Soncini, A., Bocchiola, D., Rosso, R., Meucci, S., Pala, F., Valè, G. *Water and sanitation in Multan - Pakistan*. In: Sustainable Social, Economic and Environmental Revitalization in Multan City: A Multidisciplinary Italian-Pakistani Project, Series: Research for development, Eds: Del Bo, A., Bignami, D. F., 2014, XXVII, 288 pp. Springer.
- 11) Bocchiola, D., Bocci, A., Cristofanelli, P. Eds. *Karakoram resources and climate change: glaciers, water, and ecosystems*, Proceedings of the International Conference, Islamabad, September 10 2013. EVK2CNR Publ. Pp. 110.

ii) **Refereed Journals**. Last Journal IF reported where suitable. H-index: 15 (ISI), 15 (SCOPUS). Citation on *ISI* and *SCOPUS* data bases reported where suitable.

- 1) Bocchiola D., Catalano F., Menduni G., Passoni, G., *An analytical-numerical approach to the hydraulics of floating debris in river channels*, Journal of Hydrology, 269/1-2, 65-78, 2002. IF 2009: 2.305, *ISI*, *SCOPUS*
- 2) Bocchiola, D., Menduni and Ward, D., *Testing block probes for wall shear stress measurement in water flows*, *ASCE Journal of Hydraulic Engineering*, Volume 129, Issue 2, 102-109, 2003. IF 2007: 0.876, *ISI*, *SCOPUS*
- 3) Bocchiola, D., De Michele, C., Rosso, R., *Review of recent advances in index flood estimation*, *Hydrology and Earth System Sciences*, vol 7 (3), 283-296, 2003. IF 2007: 2.27, *ISI*, *SCOPUS*

- 4) Bocchiola, D., Rulli, M.C., Rosso, R., *Transport of Large Woody Debris in the presence of obstacles*, *Geomorphology*, 76, 166–178, 2006. IF 2009: 2.339, *ISI*, *SCOPUS*
- 5) Bocchiola, D., Rosso, R., *Real time flood forecasting at dams: a case study in Italy*, *Int. J. on Hydropower and Dams*, 13 (1), 92-99, 2006. *SCOPUS*
- 6) Bocchiola, D., Rulli, M.C., Rosso, R., *Flume experiments on wood entrainment in rivers*, *Advances in Water Resources*, 29, 8, 1182-1195, 2006. IF 2009: 2.235, *ISI*, *SCOPUS*
- 7) Rulli, M.C., Bozzi, S. Spada, M., Bocchiola, D. and Rosso, R., *Rainfall simulations on a fire disturbed mediterranean area*, *Journal of Hydrology*, 327, 3-4, 323-338, 2006. IF 2009: 2.305, *ISI*, *SCOPUS*
- 8) Bocchiola, D., Medagliani, M., Rosso, R., *Regional snow depth frequency curves for avalanche hazard mapping in central Italian Alps*, *Cold Regions Science and Technology*, 46, 3, 204-221, 2006. IF 2009: 1.264, *ISI*, *SCOPUS*
- 9) Bocchiola, D., Rosso, R. *The use of scale recursive estimation for short term Quantitative Precipitation Forecast*, *Physics and chemistry of the earth*, 31, 18, 1228-1239, 2006. IF 2009: 1.138, *ISI*, *SCOPUS*
- 10) Bocchiola, D., Rosso, R., *The distribution of daily Snow Water Equivalent in the Central Italian Alps*, *Advances in Water Resources*, 30, 135–147, 2007. IF 2009: 2.235, *ISI*, *SCOPUS*
- 11) Rosso, R. Rulli, M.C., Bocchiola, D., *Transient catchments hydrology after wildfires in a Mediterranean watershed: runoff, sediment and woody debris*, *Hydrology and Earth System Sciences*, 11(1), 125-140, 2007. IF 2007: 2.27, *ISI*, *SCOPUS*
- 12) Bocchiola, D., *Use of Scale Recursive Estimation for multisensor rainfall assimilation: a case study using data from TRMM (PR and TMI) and NEXRAD*, *Advances in Water Resources*, 30, 2354–2372, 2007. IF 2009: 2.235, *ISI*, *SCOPUS*
- 13) Bocchiola, D., Rulli, M.C., Rosso, R., *A flume experiment on the formation of wood jams in rivers*, *Water Resour. Res.*, 44, W02408, doi:10.1029/2006WR005846, 2008. IF 2007: 2.154, *ISI*, *SCOPUS*
- 14) Bocchiola, D., Rosso, R., *The use of regional approach for hazard mapping at an avalanche site in northern Italy*, *Advances in Geosciences*, 14, 1-9, 2007. *SCOPUS*
- 15) Bianchi Janetti, E., Gorni, E., Sovilla, B., Bocchiola, D., *Regional snow depth estimates for avalanche calculations using a 2d model with snow entrainment*, *Ann. Glaciol.*, 49, 63-70, 2008. IF 2005: 0.802, *ISI*, *SCOPUS*
- 16) Simaityte, J., Bocchiola, D., Augutis, J., Rosso, R., *Use of a snowmelt model for weekly flood forecast for a major reservoir in Lithuania*, *Ann. Glaciol.*, 49, 33-37, 2008. IF 2005: 0.802, *ISI*, *SCOPUS*
- 17) Bocchiola, D., Bianchi Janetti, E., Gorni, E., Marty, C., Sovilla, B., *Regional evaluation of three day snow depth frequency curves for Switzerland*, *NHESS*, 8, 685-705, 2008. IF 2009: 1.345, *ISI*, *SCOPUS*
- 18) Bocchiola, D., Medagliani, M., Rosso, R., *Use of a regional approach for long term simulation of snow avalanche regime: a case study in the Italian Alps*, *Arctic Antarctic and Alpine Research*, 41,3, 285-300, 2009. IF 2007: 1.045, *ISI*, *SCOPUS*
- 19) Maragno, D., Diolaiuti, G., D'Agata, C., Mihalcea, C., Bocchiola, D., Bianchi Janetti, E., Riccardi, A., Smiraglia, C., *New evidence from Italy (Adamello Group, Lombardy) for analysing the ongoing decline of Alpine glaciers*, *Geografia Fisica e Dinamica Quaternaria*, GFDQ, 32, 31-39, 2009. *ISI*, *SCOPUS*
- 20) Bocchiola, D., Rosso, R., *Use of a derived distribution approach for extreme floods design: a case study in Italy*, *Advances in Water Resources*, 32, 8, 1284-1296. IF 2009: 2.235, *ISI*, *SCOPUS*
- 21) Bocchiola, D., Diolaiuti, G. *Evidence of climate change within the Adamello Glacier of Italy*, *Theor. App. Climat.*, 100, 3-4, 351-369, 2009, doi: 10.1007/s00704-009-0186-x. IF 2008: 1.621, *ISI*, *SCOPUS*.
- 22) Bocchiola, D., *Regional estimation of Snow Water Equivalent using Kriging: a preliminary study within the Italian Alps*, *Geografia Fisica e Dinamica Quaternaria*, GFDQ, 33, 3-14, 2010, *ISI*, *SCOPUS*. <http://www.glaciologia.it/gfdq/?p=1742>
- 23) Groppelli, B., Bocchiola, D., Rosso, R. *Precipitation downscaling using random cascades: a case study in Italy*, *Advances in Geosciences*, 8, 1-6, 2010. *SCOPUS*.
- 24) Bocchiola, D., Groppelli, B., *Spatial estimation of Snow Water Equivalent at different dates within the Adamello Park of Italy*, *Cold Regions Science and Technology*, 63(3), 97-109, 2010. IF 2009: 1.264, *ISI*, *SCOPUS*
- 25) Bocchiola, D., Mihalcea, C., Diolaiuti, G., Mosconi, B., Smiraglia, C., Rosso, R., *Flow prediction in high altitude ungauged catchments: a case study in the Italian Alps (Pantano Basin, Adamello Group)*, *Advances in Water Resources*, 33, 1224-1234, 2010. IF 2010: 2.354, *ISI*, *SCOPUS*
- 26) Diolaiuti, G., Maragno, D., D'Agata, C., Smiraglia, C., Bocchiola, D., *Glacier retreat and climate change: Documenting the last 50 years of Alpine glacier history from area and geometry changes of Dosdè Piazzi glaciers (Lombardy Alps, Italy)*, *Progress in Physical Geography*, 35(2), 161-182, 2011. IF 2014: 3.89, *ISI*, *SCOPUS*
- 27) Groppelli, B., Bocchiola, D., Rosso, R., *Spatial downscaling of precipitation from GCMs for climate change projections using random cascades: A case study in Italy*, *Water Resour. Res.*, 47, W03519, doi:10.1029/2010WR009437, 2011. IF 2009: 2.45, *ISI*, *SCOPUS*.
- 28) Bocchiola, D., Diolaiuti, G., Soncini, A., Mihalcea, C., D'Agata, C., Mayer, C., Lambrecht, A., Rosso, R., Smiraglia, C. *Prediction of future hydrological regimes in poorly gauged high altitude basins: the case study of the upper Indus, Pakistan*, **Invited contribution** for the: HESS Special Issue on "Catchment classification and PUB", *HESSD*, hessd-8-3743-2011. <http://www.hydrol-earth-syst-sci-discuss.net/8/3743/2011/hessd-8-3743-2011.html>, *Hydrol. Earth Syst. Sci.*, 15, 2059-2075, 2011. IF 2013: 3.59, *ISI*, *SCOPUS*
- 29) Groppelli, B., Soncini, A., Bocchiola, D., Rosso, R., 2011. *Evaluation of future hydrological cycle under climate change scenarios in a mesoscale Alpine watershed of Italy*, *NHESS*, 11, 1769-1785. doi:10.5194/nhess-11-1769-2011. <http://www.nat-hazards-earth-syst-sci.net/11/1769/2011/nhess-11-1769-2011.html>, IF 2013: 1.75, *ISI*, *SCOPUS*
- 30) Soncini, A., Bocchiola, D., *Assessment of future snowfall regimes within the Italian Alps using general circulation models*, *CRST*, 68, 113-123, doi:10.1016/j.coldregions.2011.06.011. IF 2013: 1.29, *ISI*, *SCOPUS*
- 31) Bocchiola, D., *Modified river hydraulics and habitat suitability in presence of woody debris: a flume experiment*, *Advances in Water Resources*, 34, 1304-1319, 2011. IF 2013: 2.41, *ISI*, *SCOPUS*
- 32) Confortola, G., Maggioni, M., Freppaz, M., Bocchiola, D., *Modelling soil removal from snow avalanches: a case study in the North-Western Italian Alps*, *CRST*, 70, 43-52, 2012, doi:10.1016/j.coldregions.2011.09.008 IF 2013: 1.29, *ISI*, *SCOPUS* <http://www.sciencedirect.com/science/article/pii/S0165232X1100190X>
- 33) Diolaiuti, G., Bocchiola, D., D'Agata, C., Smiraglia, C., *Evidence of climate change impact upon glaciers' recession within the Italian alps: the case of Lombardy glaciers*, *Theoretical and Applied Climatology*, 109(3-4), 429-445. DOI: 10.1007/s00704-012-0589-y. <http://www.springerlink.com/content/jp57023765r31436/> IF 2012: 1.76, *ISI*, *SCOPUS*

- 34) Diolaiuti, G., Bocchiola, D., Vagliasindi, M., D'agata, C., Smiraglia, C., *The 1975-2005 glacier changes in Aosta Valley (Italy) and the relations with climate evolution*, PPG, 36(6), 764-785, 2012. Available at Online first, <http://ppg.sagepub.com/content/early/2012/08/13/0309133312456413.abstract?rss=1> IF 2014: 3.89, ISI, SCOPUS
- 35) Bocchiola, D., Nana, E., Soncini, A., *Impact of climate change scenarios on crop yield and water footprint of maize in the Po valley of Italy*, Agricultural Water Management, 116, 50-61, 2013, doi: 10.1016/j.agwat.2012.10.009, <http://www.sciencedirect.com/science/article/pii/S0378377412002569#> IF 2013: 2.20, ISI, SCOPUS
- 36) Bocchiola, D., Diolaiuti, G., *Recent (1980-2009) evidence of climate change in the upper Karakoram, Pakistan*, Theoretical and Applied Climatology, 113(3-4), 611-641. IF 2012: 1.76, ISI, SCOPUS
- 37) U. Minora, D. Bocchiola, C. D'Agata, D. Maragno, C. Mayer, A. Lambrecht, B. Mosconi, E. Vuillermoz, A. Senese, C. Compostella, C. Smiraglia, G. Diolaiuti, *2001-2010 glacier changes in the Central Karakoram National Park: a contribution to evaluate the magnitude and rate of the Karakoram anomaly*, The Cryosphere Discussion, <http://www.the-cryosphere-discuss.net/7/2891/2013/tcd-7-2891-2013.html>. IF 2013: 3.77, ISI, SCOPUS. Now: 2001-2010 glacier changes in the Central Karakoram National Park (Pakistan): the "Karakoram Anomaly" in the spotlight, Reviewed for publication, The Cryosphere, January 2014.
- 38) D'agata, C., Bocchiola, D., Maragno, D., Smiraglia, C., Diolaiuti, G., *Glacier shrinkage driven by climate change during half century (1954-2007) in the Ortles-Cevedale group (Stelvio national park, Lombardy, Italian Alps)*, Theor. Appl. Climatology, <http://link.springer.com/article/10.1007%2Fs00704-013-0938-5>, 116, 1, 169-190, IF 2012: 1.76, ISI, SCOPUS
- 39) Confortola, G., Soncini, A., Bocchiola, D., *Climate change will affect water resources in the Alps: a case study in Italy*, Journal of Alpine Research, RGA/JAR, 101(3), 2013. Selected among the final six papers for the Young Alpine Research Award of RGA/JAR, edition 2013. <http://rga.revues.org/2176>. SCOPUS
- 40) Ravazzani, G., Bocchiola, D., Groppelli, B., Soncini, A., Rulli, M.C., Colombo, F., Mancini, M., Rosso, R., *Continuous stream flow simulation for index flood estimation in an Alpine basin of Northern Italy*, HSI, DOI:10.1080/02626667.2014.916405. IF 2012: 1.11. ISI, SCOPUS. <http://www.tandfonline.com/doi/full/10.1080/02626667.2014.916405#>
- 41) Nana, E., Corbari, C., Bocchiola, D., *A model for crop yield and water footprint assessment: study of maize in the Po valley*, AGSYS, 127, 139-149, 2014. 5 year IF: 3.28. ISI, SCOPUS
- 42) Salerno, F., Gambelli, S., Viviano, G., Thakuri, S., Guyennon, N., D'Agata, C., Diolaiuti, G., Smiraglia, C., Stefani, F., Bocchiola, D., Tartari, G., *High alpine ponds shift upwards as average temperatures increase: a case study of the Ortles-Cevedale mountain group (southern Alps, Italy) over the last 50 years*, Global and Planetary Change, 120, 81-91, 2014, DOI: 10.1016/j.gloplacha.2014.06.003. 5 year IF: 4.48. ISI, SCOPUS
- 43) Bocchiola, D., *Long term (1921-2011) changes of Alpine catchments regime in Northern Italy*, Advances in Water Resources, 70, 51-64, 2014, DOI: 10.1016/j.advwatres.2014.04.017. <http://authors.elsevier.com/sd/article/S0309170814000840>. 5 year IF: 3.53. ISI, SCOPUS
- 44) Bocchiola, D., Rosso, R. *Safety of dams against floods in Italy*, Adv. Water Resour., 71, 23-31, 2014, <http://www.sciencedirect.com/science/article/pii/S0309170814001006>. 5 year IF: 3.53. ISI, SCOPUS
- 45) Addimando, N., Nana, E., Bocchiola, D., *Modelling pasture dynamics in a Mediterranean environment: a case study in Sardinia*, ASCE Journal of Irrigation and Drainage Engineering, 10.1061/(ASCE)IR1943-4774.0000818, 04014063. 5 year IF: 1.59. ISI, SCOPUS. <http://ascelibrary.org/doi/pdf/10.1061/%28ASCE%29IR.1943-4774.0000818>
- 46) Palazzoli, I., Maskey, S., Uhlenbrook, S., Nana, E., Bocchiola, D., *Impact of prospective climate change upon water resources and crop yield in the Indrawati basin, Nepal*. Agricultural Systems, 133, 143-157, 5 year IF: 3.28. ISI, SCOPUS. <http://dx.doi.org/10.1016/j.agsy.2014.10.016>, 2015.
- 47) Soncini A., Bocchiola, D., Confortola, G., Bianchi, A., Rosso, R., Mayer, C., Lambrecht, A., Palazzi E., Smiraglia C., Diolaiuti G., *Future hydrological regimes in the upper Indus basin: a case study from a high altitude glacierized catchment*, Journal of Hydrometeorology, 16(1), 306-326, 2015. IF 5 years: 3.93.

iii) Papers on Italian journals with review.

- 1) Bocchiola, D., Menduni, G., Viterbo, M., Ward, D., *Skin friction measurement via pressure probes, a review and a proposal*, L'ACQUA, n. 4, july-august 2000, p. 9. In Italian with abstract in English.
- 2) Bocchiola, D., De Michele, C., Pecora, S. e Rosso, R., *On the response time of Italian watersheds*, L'ACQUA, Vol. 1, p. 45-55, January-February 2003. In Italian with abstract in English.
- 3) Bocchiola, D., De Michele, C., Rosso, R. *Application of the generalized extreme values distribution GEV to regional analysis of floods in Italy*, L'ACQUA, 1, 43-62, 2004. In Italian with abstract in English.
- 4) Martinelli, O., Modena, D., Bocchiola, D., De Michele, C., Rosso, R., *The snow water resources: evaluation on Lombardia mountains*, Neve e Valanghe, 1, 44-57, 2004. In Italian with abstract in English.
- 5) Riboni, A., Sovilla, B., Bocchiola, D., Rosso, R., *A regional approach to the calculation of the avalanche depth at release and application to two case studies in Lombardia*, Neve e Valanghe, 22-39, 2005. In Italian with abstract in English.
- 6) Bocchiola, D., Rosso, R., *An introduction to flood proofing techniques*, Il progetto sostenibile, 9, 2006, In Italian with abstract in English.
- 7) Medagliani, M., Garavaglia, S., Bocchiola, D., Rosso, R., *Hydrological balance of snow fed watersheds: the case of Mallero river*, L'ACQUA, N.3, 9-20, 2007, In Italian with abstract in English.
- 8) Bocchiola, D., Medagliani, M., *Morphology of avalanches: a study in the Bormio area*, Neve e Valanghe, 62, 70-79, 2007. In Italian with abstract in English.
- 9) Gorni, E., Bianchi Janetti, E., Bocchiola, D., Rosso, R., *Climate change in the Adamello Lombardo park: analysis of forty years of climate data*, L'ACQUA, 5, 47-56, 2008. In Italian with abstract in English.
- 10) Bianchi Janetti, E., Bocchiola, D., Rosso, R., *Influence of climate change on snow water resources: the case study of Adamello Lombardo Park*, Neve e Valanghe, 63,66-73, 2008. In Italian with abstract in English.
- 11) Arena Lo Riggio, E., Mura, M., Bocchiola, D., Rulli, M.C., Rosso, R., *An energy conservation based model for avalanche dynamics*. Neve e Valanghe, 65, 32-41, 2009. In Italian with abstract in English.
- 12) Bocchiola, D., Rosso, R., *Mitigation of flood risk: flood proofing methods*, Rivista dell'Ordine degli Ingegneri, Provincia di Milano, 46, 25-28, 2009, In Italian with abstract in English.

- 13) Groppelli, B., Soncini, A., Bocchiola, D., Rosso, R., *Future water resources scenario within Alpine catchments: the case study of Oglio river*, L'ACQUA, 1, 9-24, 2011. In Italian with abstract in English.
- 14) Soncini, A., Bocchiola, D., *Valutazione dei regimi futuri delle precipitazioni nivali sulle Alpi Italiane usando modelli di circolazione globale* [Evaluation of future snowfall within Italian Alps], Neve e Valanghe, 72, 34-47, 2011. In Italian with abstract in English.
- 15) Rosso, R., Bocchiola, D., Groppelli, B., *Affidabilità degli scenari pluviali e criteri di downscaling per le applicazioni idrologiche dei modelli climatici di circolazione globale*, [Accuracy of rainfall scenarios and downscaling criteria for hydrological applications of Global Circulation Models], Resume, Nimbus, 59-60, 7-9, 2011.
- 16) Confortola, G., Maggioni, M., Freppaz, M., Bocchiola, D., *Un modello di erosione del suolo da valanga: il caso di Lavancher, Morgex (AO)* [A model of avalanche soil erosion: the case study of Lavancher, Morgex (AO)], Neve e Valanghe, 74, 46-55, 2012
- 17) Nana E., Soncini, A., Groppelli, B., Bocchiola, D., 2012. *Effetti di un potenziale cambiamento climatico sulla produttività agricola: il caso del mais nella provincia di Cremona* [Impact of potential climate change upon crop yield: the case of Maize in Cremona province]. L'ACQUA, 6, 9-19, 2012.
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- 6) Bocchiola, D., Rosso, R., *Combining ground based data, remote imagery and simple hydrological modeling to asses spring flows in an Italian meso-scale alpine watershed*, Poster presentation and abstract at EGU General Assembly, Wien, 2005.
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- 50) Bocchiola, D., *Climate change in the Alps and future water resources: a case study*, GeoItalia 2011, Torino, September 19-23, 2011, **Invited Talk**.
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- 70) Bocchiola, D. *Water resources and hydrological regimes of the upper Indus basin: results from the PAPRIKA and SEED projects*. **Invited Talk**, Conference: The Italian science and cooperation in the shadow of K2, Islamabad-Skardu, September 2013.
- 71) Bocchiola D., Soncini A., Confortola G.; Nana E., Bianchi A., Rosso R., Diolaiuti G., Smiraglia C., von Hardenberg J., Palazzi E., Provenzale A., Vuillermoz, E., *Future hydrological regimes under climate change scenarios in the Upper Indus Basin: the case study of the Shigar river*. Poster: Conference: High Summit, International conference on mountain and climate change. Lecco, Italy, October 2013.
- 72) Paramithiotti, V., Confortola, V., Bookhagen, B., Diolaiuti, G., Soncini, A., Bocchiola, D., *Assessing hydrologic components of a glaciated catchment in the central Himalaya*. Poster. Conference: High Summit, International conference on mountain and climate change. Lecco, Italy, October 2013.
- 73) Bocchiola, D. *Climate change effect upon water resources and hydro-ecology in Northern Italy and the Alps*, **Invited Talk**. Conference: High Summit, International conference on mountain and climate change. Lecco, Italy, October 2013.
- 74) Palazzoli, I., Bocchiola, D., Nana, E., Uhlenbrook, S., and Maskey, S. (2), *Assessing the impact of climate change on agriculture in Indrawati Basin, Nepal*, Abstract, EGU 2014. Poster.
- 75) Minora, U., Bocchiola, D. et al., *Mapping distribution and thickness of supraglacial debris in the Central Karakoram National Park: main features and implications to model glacier meltwater*, Abstract, EGU 2014. Poster.
- 76) Minora, U., Bocchiola, D. et al., *Is supraglacial debris actually playing a role in driving the Karakoram Anomaly ?* Abstract, EGU 2014. Poster.
- 77) Bocchiola, D., *Exploring the tradeoff between water use and crop production under climate change: a case study in the Po valley of Italy*, **Invited Talk**. Workshop internazionale: Peri-urban areas and Food-Energy-Water Nexus, sustainability and resilience Strategies in the Age of Climate Change, Milano, 28-29 March 2014.
- 78) A. Soncini, D. Bocchiola, G. Confortola, E. Nana, A. Bianchi, R. Rosso, G. Diolaiuti, C. Smiraglia, J. von Hardenberg, E. Palazzi, A. Provenzale, E. Vuillermoz, *Hydrology of the upper Indus basin under potential climate change scenarios*, **Invited talk**, IAEG 2014, Turin.
- 79) Bocchiola, D., Diolaiuti, G., Confortola, G., Soncini, A., Platter, W., *Un parco osservatorio per conoscere l'acqua delle nostre montagne: il progetto IDROSTELVIO e i primi risultati conseguiti [A Park observatory to assess water in the Alps: Idrostelvio Project and first results]*. **Invited talk**, Forum Alpinum, 17-19 Sept. 2014, Darfo (BS).
- 80) Confortola, G., Viganò, G., Fornaroli, R., Cabrini, R., Canobbio, S., Mezzanotte, V., Bocchiola D., *Future climate change may affect habitat suitability in Alpine streams, Serio river case study*, Poster presentation, Forum Alpinum, 17-19 Sept. 2014, Darfo (BS).

- 81) U. Minora, D. Godone, S. Lorenzini, C. D'Agata, D. Bocchiola, G. S. Barcaza, C. Smiraglia, G. Diolaiuti, *Remote sensing investigations to describe snow cover area (SCA) variability over 18 watersheds of the Central Chile in the time window 2008-2011*, Poster presentation, CGI Congress Turin, 18-21 Sept., 2014.
- 82) G. Premoli, G. Confortola, M. Maggioni, M. Freppaz, E. Ceaglio, D. Bocchiola, *A 1D model of snow-gliding: the case study of Mont de la Saxe (NW Italian Alps)*, Oral presentation, CGI Congress Turin, 18-21 Sept., 2014.
- 83) D. Bocchiola, A. Soncini, G. Confortola, U. Minora, G. Diolaiuti, C. Smiraglia, E. Vullermoz, D. Shrestha, F. Salerno. *Potential effects of future climate change in the water towers of Asia: the case study of the Dudh Kosi basin, Nepal*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 84) M. Caccianiga, C. Compostella, R. Ambrosini, D. Bocchiola, C. Smiraglia, G. Diolaiuti. *Glaciological and biological features of supraglacial debris on Changri -Nup and Khumbu glaciers (Sagarmatha National Park, Nepal)*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 85) G. Confortola, K. Fyffe, G. Diolaiuti, D. Bocchiola. *Glacio-hydrological modeling of the debris covered Belvedere Glacier (VB), Italy*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 86) G. Confortola, F. Migliavacca, A. Soncini, G. Diolaiuti, G. Barcaza, D. Bocchiola. *Hydrology of the Rio Maipo of Chile under future climate change*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 87) U. Minora, M. Mariani, D. Bocchiola, G. Diolaiuti, C. Smiraglia. *Revision of the glacier inventory of the Afghani Hindu Kush*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 88) A. Senese, M. Maugeri, S. Ferrari, G. Confortola, D. Bocchiola, G. Diolaiuti. *Parameterization of radiative components and air temperature driving ablation at the Forni Glacier (Italian Alps)*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Poster*
- 89) A. Soncini, D. Bocchiola, G. Confortola, U. Minora, R. Rosso, C. Mayer, A. Lambrecht, E. Palazzi, C. Smiraglia, G. Diolaiuti, *Effects of future climate change upon the water towers of asia: a case study from the upper indus basin*. Alpine glaciological meeting AGM 2015, Milano, Italy. *Oral*.

7) Teaching and tutoring

i) I am tutor or co-tutor several master thesis, as follows

- 1) Viterbo, M., *Boundary layer probes for shear stress measurements: experimental study and theoretical analysis*, Pol. di Milano, ac. year 1997-98, tutor Prof. Eng. G. Menduni. In Italian. *Part of WHIRLPOOL company of Italy (VA) (Dr. David Ward)*.
- 2) Catalano, F., *Dynamics of a fluid current in presence of floating debris*, Pol. di Milano, ac. year 1999-2000, tutor Prof. Eng. G. Passoni. In Italian.
- 3) Bardelli, M. and Chini, A., *Hydrologic dynamics of some Italian watersheds*, Pol. di Milano, ac. year 2000-2001, tutor Prof. Eng. R. Rosso. In Italian.
- 4) Moscatelli, F., *Investigation of the iso-frequency hypothesis of flood and storm events using a derived distribution model*, Pol. di Milano, a.y. 2002-2003, Tutor Prof. R. Rosso. In Italian.
- 5) Giuffrida, D., *A methodology for data fusion of remotely sensed rainfall fields at different scales*, Pol. di Milano, a.y. 2002-2003, Tutor Prof. R. Rosso. In Italian.
- 6) Martinelli, O. and Modena, D., *A methodology for the estimation of snow water equivalent in the Lombardy pre-alps*, Pol. di Milano, a.y. 2002-2003, Tutor Prof. R. Rosso. In Italian.
- 7) Bernardi, A., Corsini, F., *Use of the median as an index value for extreme floods estimation: an application to Po basin and Thyrrhenian Liguria*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 8) Manzo, G., *A preliminary study on the hydrologic response of watersheds subjected to forest fires*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 9) Motta, D., *An experimental Study on the fluvial dynamics of woody debris*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 10) Greppi, A. and Narciso, C., *Experimental study and development of a model for transport of woody debris on burned hill-slopes*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 11) Magnaghi, M., *A multiscale model for short forecast of rainfall*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 12) Casartelli, V., *Defence from floods using flood proofing techniques: application criteria and maps of intervention*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 13) Riboni, A., *A study on mapping of the avalanche hazard in Lombardia alps*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian. *Part of SLF Davos (CH) (Dr. Betty Sovilla)*.
- 14) Bordoni, A., *A statistical approach to the study of some flow variables of ecological interest*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 15) Belotti, G., Leonardo, G., *Mapping of hydrologic hazard in Lombardia water course: a state of the art analysis*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 16) Albonico, C., Bruni, E., *Application of a snowmelt model to estimate the seasonal flows in Valle Seriana*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 17) Garavaglia, S., Medagliani, M., *The forecast of the snow Water Equivalent for a mountain watershed: the case of the Mallero River*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 18) Di Prisco, M., *A method for the real time forecasting of floods at a dam site: the Case of S. Giustina Dam*, Pol. di Milano, a.y. 2003-2004, Tutor Prof. R. Rosso. In Italian.
- 19) Biesuz, S., Zanetti, A., *Entrainment of woody debris in rivers: experimental tests*, Pol. di Milano, a.y. 2004-2005, Tutor Prof. R. Rosso. In Italian.
- 20) Contrino, I. M., *Assessment of the quality of riverine environment using stochastic hydraulic models: a case study on Serio river*, Pol. di Milano, a.y. 2004-2005, Tutor. In Italian.
- 21) Danelli, A., *The scale invariance of floods applied to index flood estimation for some dam sites in northern Italy*, Pol. di Milano, a.y. 2004-2005, Tutor Prof. R. Rosso. In Italian.

- 22) Procopio, A., *Flow variation downstream of large dams: the S. Giustina dam, Trento*, Pol. di Milano, a.y. 2004-2005, Tutor. In Italian.
- 23) Cassuoli, M.A., Montalto Giampaoli, L., *Point assessment of snow melt at sub-daily time scale: the case study of the Mallero watershed*. 2005-2006, Tutor Prof. R. Rosso, In Italian.
- 24) Bianchi Janetti, E., Gorni, E., *Dynamic calculations of avalanches: a study on snow cover height in Switzerland with regional approach*, 2006-2007, Tutor. In English. Part ful SLF Davos (CH) (Dr. Betty Sovilla).
- 25) Benelli, R., *Modification of the water profile in the presence of woody debris: an experimental flume study*, 2005-2006, Tutor. In Italian.
- 26) Pagani, A., Sala, G., *Simulation of avalanches for hazard zones assessment: the case of the Vallecetta Mountain (SO)*, 2006-2007, Tutor. In Italian.
- 27) Malgarida, S., *A code for the simulation of ablation from the debris cover glacier of Venerocolo (BS)*, 2007-2008, Tutor. In Italian. Part ful Earth Sciences Dept. State University Milano (IT) (Prof. Claudio Smiraglia, Dr. Claudia Mihalcea).
- 28) Girola, E., *Experimental assessment of wood jams formation in streams*, 2007-2008, Tutor. In Italian.
- 29) Caccamo, P., *Experimental assessment of the influence of a dam on powder snow avalanche impact: the case study of Taconnaz*, 2007-2008, Tutor. In English. Part ful CEMAGREF Grenoble (FR) (Dr. Mohammed Naaim, Dr. Florence Naaim Bouvet)
- 30) Danelli, A., *Optimal strategies of flushing of reservoirs: the case study of the Forni dam (SO)*, 2007-2008, Tutor. In Italian. Part ful CESIRicerca Milano (IT) (Eng. Julio Alterach).
- 31) Cremante, M., *Hydroecological effect of climate change on ungulate species in high mountain areas, the case of Adamello Natural Park*, ongoing. In Italian.
- 32) Crapella, M., *Modelling of vegetation cover patterns for hydroecological purposes within the Oglio river*, ongoing. In Italian.
- 33) Soncini, A., *Downscaling of precipitation for projection of hydrological impact of climate change within the Oglio river*, ongoing. In Italian.
- 34) Apollonio, G., *Distributed modelling of hydrological fluxes upon a cirque debris cover glacier within the Adamello group of Italy*, ongoing. In Italian. Part ful Earth Sciences Dept. State University Milano (IT) (Prof. Claudio Smiraglia, Dr. Claudia Mihalcea).
- 35) Addimando, N., *Long term modelling of avalanche magnitude, entrainment and dynamics*, ongoing. Part ful SLF Davos (CH) (Dr. Betty Sovilla).
- 36) Dellarole, L., *Application of ALPINE 3D model for climate change projection upon hydrology of Oglio river*, ongoing. Part ful SLF Davos (CH) (Dr. Michael Lehning)
- 37) Confortola, G., *Use of a dynamic avalanche model to evaluate soil erosion*, ongoing. Coop. University Turin (Dr. Michele Freppaz). In Italian.
- 38) Brambilla, G., *Assessment of suitability indexes for macroinvertebrates and fishes in the Serio river*, ongoing. In Italian.
- 39) Balzaretto, L., Brunetti, D., *Modelling of hydrological budget of Dosdè glacier, Alta Valtellina*. Part ful Earth Sciences Dept. State University Milano (IT) (Prof. Claudio Smiraglia, Dr. Guglielmina Diolaiuti).
- 40) Uranga, J., *Projections of future hydrological budget of Dosdè glacier, Alta Valtellina*. Part ful Earth Sciences Dept. State University Milano (IT) (Prof. Claudio Smiraglia, Dr. Guglielmina Diolaiuti).
- 41) Garavaglia, R., Marzorati, A., *Future scenarios of precipitation in Switzerland: a preliminary investigation*, 2009-2010, Tutor. In Italian. Coop. SLF Davos.
- 42) Rizzo, S., *Downscaling of wind series from GCM: the case of alta Valtellina*, 2009-2010, Tutor. In Italian.
- 43) Bonaldi, D., *Impact of climate change upon dynamics of Pernice Bianca, Lagopus Muta, within Northern Alps of Italy*. Tutor, 2011. In Italian.
- 44) Nana, E., *Impact of climate change upon crop yields in Northern Italy*. Tutor. In cooperation with R. Confalonieri @ University Milano. In Italian.
- 45) Mallamaci, M.G., *Climate control upon crop yields in Northern Italy*. Tutor. In cooperation with R. Confalonieri @ University Milano. In Italian.
- 46) Vigano, G., *Use of eco-hydrologic indicators for multi-objective management of Santa Giustina dam (TN)*. Tutor, 2011. In Italian. In cooperation with F. Pianosi @ DEI Polimi.
- 47) Bizzozero, F., *Time downscaling of precipitation within the Stelvio Park of Italy*. Tutor, 2011. In Italian.
- 48) Bozza, A., *Monitoring SCA in Nepal, using MODIS (Moderate Resolution Imaging Spectroradiometer)*. Tutor, 2011. In Italian. Part ful LTHE Grenoble (Prof. Isabella Zin).
- 49) Galasso, V., *Climate change impact upon water resources in the upper Indus, Pakistan*. Tutor, 2011. In Italian.
- 50) Cerrato, E., *Optimal multi-objective management of Santa Giustina dam (TN) using eco-hydrologic indicators*. Tutor, 2011. In Italian. **Ongoing**.
- 51) Tusi, A., *Use of MODIS® for Snow Cover Assessment upon Lombardia catchments*, Tutor, 2011. In Italian, **Ongoing**
- 52) Addimando, N., *Modeling of pasture vegetation within the Central Karakoram National Park*, Master's thesis. Tutor, 2011. In Italian.
- 53) Carincola, C., *Physically based modelling of hydrological budget of Dosdè glacier, Alta Valtellina*. Part ful Earth Sciences Dept. State University Milano (IT) (Prof. Claudio Smiraglia, Dr. Guglielmina Diolaiuti). 2012. In Italian.
- 54) Grilli, C., *Modelling of hydrological budget of Indren glacier, Val D'Aosta*. Part ful. University Torino (Dr. Michele Freppaz). 2012. In Italian.
- 55) Chiavico, M., *Set up of a pasture growth model, and application to some case studies*. 2012. In Italian.
- 56) Mianiti, L., Bonizzoni, S., *Virtual Water trade*. 2012. In Italian.
- 57) Richetti, D., *Statistical deterministic modeling of runoff at Como lake for forecasting aims*. 2012. In Italian.
- 58) Fiore R., *Glacio-hydrological modeling of Indren glacier (AO)*. 2013. In Italian
- 59) Merletti, M., *Water footprint and agriculture: the case of rice in Pavia province*. 2013. In Italian
- 60) Frascini, A., *Hydrological modelling of a high altitude glacial catchment.: the case Changri-Nup, Nepal*, 2013. In Italian.
- 61) Lambri, L., *Analysis of a high altitude hydrometric network: the Idro-Stelvio project*. 2013. In Italian.
- 62) Vigano, G., *Hydrological regime and environmental suitability of the Serio river (BG) under prospective climate change*. 2013. In Italian.
- 63) Ferrari, S., *A distributed radiative model for the assessment of ablation upon Forni glacier (SO)*. 2013. In Italian.
- 64) Paramithiotti, V., *Climate change assessment and hydrological modeling in the Dudhkosi River basin, Eastern Nepal*. 2013. In Italian. Part. Ful. S. Barbara Univ., Dr. Bodo Bookhagen.

- 65) Garavaglia, R., Marzorati, A. *1-D modelling of glacial dynamics and mass budget upon Forni glacier(SO)*. 2013. In Italian.
- 66) Bolzoni, M., *Calibration of a hydrological model for an Alpin basin: the Adda river at Com lake*. 2013. In Italian.
- 67) Bolognini, M., Sacchi, D., *Set up of a hydrological model or the glacial catchment of Shigar river, Karakoram*. 2013. In Italian.
- 68) Palazzoli, I., *Impact of climate change upon hydrological cycle and crop production in the Indrawati catchment, Nepal*. In Italian. Part. Ful. IHE Delft, Prof. Stefan Uhlenbrook. 2013.
- 69) Buizza, M., *Hydrological modelling of the Dudh Koshi basin, Nepal*, 2014.

ii) I have been charged with the following teaching duties.

- 1) Academic Years 2010-2014, Charged as Lecturer for the course “Urban Water services” [Servizi Idrici a rete], Bachelor and Master, at Politecnico di Milano, Campus Milano, first semester. Approx 50 students.
- 2) Academic Years 2012-2013, Charged as Lecturer for the course “Glaciology” [Glaciologia], Bachelor and Master, at State University Milano, first semester. Module “Avalanche sciences” 16 hours, Approx 50 students.
- 3) Academic Years 2010-2013, Charged as Lecturer for the course “Urban Water services”, Bachelor and Master, at Politecnico di Milano, Campus Milano, first semester. Approx 50 students.
- 4) Academic Year 2009-2010, Charged as Lecturer for the course “Hydrology” [Idrologia], Bachelor, at Politecnico di Milano, Campus Milano, second semester. Approx 80 students
- 5) I’m charged with the course for PhD students: Bocchiola, D. *Snow and avalanche*, Approx 16 hours. *Woody Debris*, Approx 8 hours. Part of the course: *Mountain Hydrology*. Politecnico di Milano and University of Brescia. From year 2008: PhD program: Environmental Engineering and Sciences, IAR dept., Politecnico di Milano.
- 6) Academic Year 2008-2009, Charged as Lecturer for the course “Hydrology” [Idrologia], Bachelor, at Politecnico di Milano, Campus Milano, second semester. Approx 80 students
- 7) Academic Year 2007-2008, Charged as Lecturer for the course “Hydrology” [Idrologia], Bachelor, at Politecnico di Milano, Campus Milano, second semester. Approx 50 students
- 8) Bocchiola, D. *Snow and avalanche*, Approx 16 hours. *Woody Debris*, Approx 8 hours. Part of the course: *Mountain Hydrology*. A course for PhD students at Politecnico di Milano and University of Brescia. May to July 2007.
- 9) Academic Year 2006-2007, Charged as Lecturer for the course “Hydraulic soil defence 2” [Protezione idraulica del territorio 2], Master’s Degree, at Politecnico di Milano, Campus Milano, second semester. Approx 50 students
- 10) Academic Year 2005-2006, Charged as Lecturer for the course “Hydraulic soil defence 2” [Protezione idraulica del territorio 2], Master’s Degree, at Politecnico di Milano, Campus Milano, second semester. Approx 50 students
- 11) Academic Year 2004-2005, Charged as Lecturer for the course “Design of hydraulic structures” [Infrastrutture idrauliche], at Politecnico di Milano, Campus Como, first semester. Approx 50 students
- 12) Academic Year 2003-2004, Charged as Lecturer for the course “Design of hydraulic structures” [Infrastrutture idrauliche], at Politecnico di Milano, Campus Como, first semester. Approx 50 students
- 13) Academic Year 2002-2003, Charged as Lecturer for the course “Informatics Lab of Hydrology” [Laboratorio di idrologia], at Politecnico di Milano, Campus Milano, second semester. Approx 50 students
- 14) Academic Year 2002-2003, teaching assistant for the course “Hydraulic soil defence” [Protezione idraulica del territorio], held by Prof. R.Rosso, at Politecnico di Milano, Campus Milano, second semester. Approx 150 students
- 15) Academic Year 2002-2003, teaching assistant for the course “Hydraulic soil defence” [Protezione idraulica del territorio] held by Prof. R.Rosso, at Politecnico di Milano, Campus Milano, second semester. Approx 150 students
- 16) Academic Year 2002-2003, teaching assistant for the course “Hydraulic Infrastructure” [Infrastrutture idrauliche] held by Prof. M.C.Rulli, at Politecnico di Milano, Campus Milano, Junior Engineers, first semester. Approx 50 students
- 17) Academic Year 2002-2003, teaching assistant for the course “Hydraulic Infrastructure” [Infrastrutture idrauliche] held by Prof. R.Airoldi, at Politecnico di Milano, Campus Milano, first semester. Approx 150 students
- 18) Academic Year 2001-2002, a teaching assistant for the course of “Hydrology” [Idrologia], held by Prof. M. Mancini, at Politecnico di Milano, Campus Como, second semester. Approx 50 students
- 19) Academic Year 2001-2002, teaching assistant for the course “Hydraulic soil defence” [Protezione idraulica del territorio] held by Prof. R.Rosso, at Politecnico di Milano, Campus Milano, second semester. Approx 150 students
- 20) Academic year 2001-02 I’ve been charged as a teaching assistant for the course of “Hydraulic Infrastructure” [Infrastrutture idrauliche] held by Prof. R.Rosso, at Politecnico di Milano, Campus Milano, first semester. Approx 150 students
- 21) Academic year 1998-99 and 1999-00 I’ve been also charged as a teaching assistant for the course of “Fluid Mechanics” [Meccanica dei fluidi] held by Prof. A. Guadagnini, at Politecnico di Milano, Campus Lecco. Approx 50 students
- 22) Academic year 1998-99 and 1999-00 I’ve been charged as a teaching assistant for the course of “Fluid Mechanics” [Meccanica dei fluidi], held by Prof. G. Menduni, at Politecnico di Milano, Campus Leonardo. Approx 200 students