

Alberto Viglione

Date of Birth: 3rd July 1977.**Nationality:** Italian.CONTACT
INFORMATION

Dipartimento di Ingegneria dell'Ambiente,
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Infrastructure Engineering)
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POSITIONS

Associate Professor , Politecnico di Torino, Italy	2019 - present
Assistant Professor , Vienna University of Technology, Austria	2018
Tenure Track , Vienna University of Technology, Austria	2017 - 2018
Research Fellow , Vienna University of Technology, Austria	2007 - 2016
Visiting Scholar , University of Illinois at Urbana-Champaign, USA	2011
Research Assistant , Politecnico di Torino, Italy	2003 - 2007

EDUCATION

Habilitation Fachgebiet Hydrologie , Technische Universität Wien, Austria Fakultät für Bauingenieurwesen	04-04-2019
Ph.D. in Hydraulic Engineering , Politecnico di Torino, Italy (Advisors: Pierluigi Claps, Francesco Laio)	14-02-2007
Master's Degree in Environmental Engineering , Politecnico di Torino, Italy (Advisors: Luca Ridolfi, Amilcare Porporato, Davide Poggi)	17-07-2002

RESEARCH
INTERESTS

Research objectives:

- to understand the *spatio-temporal dynamics* of climatic, hydrologic and human processes in river basins;
- to decipher the implications of these dynamics on the *probabilities of extreme hydrological events* (floods and droughts) and their *evolution in space and time*;
- to *assess the risk* associated to extreme hydrological events.

Research strategy (combination of):

- investigation of long time series of observed/reconstructed climatic, hydrologic and human related variables;
- comparative analysis of climatic, hydrologic and human related variables across spatial gradients;
- conceptual modelling of the interconnection of climatic, hydrologic and human processes as a mean to understand what the data say.

HONORS AND
AWARDS

Leonardo conference 'Facets of Uncertainty', Kos, Greece: Young scientist invited talk, 2013.
Fondazione AMGA, Genova, Italy: Premio di Dottorato per tesi sulle Risorse Idriche (Doctoral thesis award), 2009.
Politecnico di Torino, Italy: graduated Magna Cum Laude, Environmental Engineering, 2002.

CITATION IMPACT

	Web of Science (M-4860-2017)	Scopus (25824453700)	Google scholar
N. of publications	94	107	283
Sum of the times cited	5225	5680	8647
h-index	39	40	49



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81. Bertola, M., A. Viglione, S. Vorogushyn, D. Lun, B. Merz and G. Blöschl, 2021. Do small and large floods have the same drivers of change? A regional attribution analysis in Europe, *Hydrology and Earth System Sciences*, **25**(3), 1347-1364, doi:10.5194/hess-25-1347-2021.
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79. Chen, X., J. Parajka, B. Széles, P. Valent, A. Viglione and G. Blöschl, 2020. Impact of Climate and Geology on Event Runoff Characteristics at the Regional Scale, *Water*, **12**(12), 3457, doi:10.3390/w12123457.
78. Blöschl, G., A. Kiss, A. Viglione et al., 2020. Current European flood-rich period exceptional compared with past 500 years, *Nature*, **583**, 560-566, doi:10.1038/s41586-020-2478-3.
77. Lun, D., S. Fischer, A. Viglione and G. Blöschl, 2020. Detecting Flood-Rich and Flood-Poor Periods in Annual Peak Discharges Across Europe, *Water Resources Research*, **56**(7), e2019WR026575, doi:10.1029/2019WR026575.
76. Tarasova, L., S. Basso, D. Wendi, A. Viglione, R. Kumar and R. Merz, 2020. A Process-Based Framework to Characterize and Classify Runoff Events: The Event Typology of Germany, *Water Resources Research*, **56**(5), e2019WR026951, doi:10.1029/2019WR026951.
75. Bertola, M., A. Viglione, D. Lun, J. Hall and G. Blöschl, 2020. Flood trends in Europe: Are changes in small and big floods different? *Hydrology and Earth System Sciences*, **24**(4), 1805-1822, doi:10.5194/hess-24-1805-2020.
74. Guse, B. et al., 2020. The role of flood wave superposition in the severity of large floods, *Hydrology and Earth System Sciences*, **24**, 1633-1648, doi:10.5194/hess-24-1633-2020.
73. Hundecha, Y., J. Parajka and A. Viglione, 2020. Assessment of past flood changes across Europe based on flood-generating processes, *Hydrological Sciences Journal*, **65**(11), 1830-1847, doi:10.1080/02626667.2020.1782413.

72. Blöschl, G., J. Hall, A. Viglione et al., 2019. Changing climate both increases and decreases European river floods, *Nature*, **573**, 108-111, doi:10.1038/s41586-019-1495-6.
71. Bertola, M., A. Viglione and G. Blöschl, 2019. Informed attribution of flood changes to decadal variation of atmospheric, catchment and river drivers in Upper Austria, *Journal of Hydrology*, **577**, 123919, doi:10.1016/j.jhydrol.2019.123919.
70. Di Baldassarre, G., et al., 2019. Socio-hydrology: Scientific Challenges in Addressing a Societal Grand Challenge, *Water Resources Research*, **55**(8), 6327-6355, doi:10.1029/2018WR023901.
69. Blöschl, G., et al., 2019. Twenty-three unsolved problems in hydrology (UPH) – a community perspective, *Hydrological Sciences Journal*, **64**(10), 1141-1158, doi:10.1080/02626667.2019.1620507.
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65. Parajka, J. et al., 2019. MODIS Snowline Elevation Changes During Snowmelt Runoff Events in Europe, *Journal of Hydrology and Hydromechanics*, **67**(1), 101-109, doi:10.2478/johh-2018-0011.



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64. Volpi, E., M. Di Lazzaro, M. Bertola, A. Viglione and A. Fiori, 2018. Reservoir Effects on Flood Peak Discharge at the Catchment Scale, *Water Resources Research*, **54**(11), 9623-9636, doi:10.1029/2018WR023866.
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41. Archfield, S.A., M. Clark, B. Arheimer, L.E. Hay, H. Mcmillan, J.E. Kiang, J. Seibert, K. Hakala, A. Bock, T. Wagener, W.H. Farmer, V. Andréassian, S. Attinger, A. Viglione, R. Knight, S. Markstrom and T. Over, 2016. Accelerating advances in continental domain hydrologic modeling, *Water Resources Research*, **51**(12), 10078-10091, doi:10.1002/2015WR017498.
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2014

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29. Skøien, J.O., G. Blöschl, G. Laaha, E. Pebesma, J. Parajka and A. Viglione, 2014. rtop: an R package for interpolation of data with a variable spatial support, with an example from river networks, *Computers & Geosciences*, **67**, 180-190, doi:10.1016/j.cageo.2014.02.009.
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15. Rogger, M., H. Pirkl, A. Viglione, J. Komma, B. Kohl, R. Kirnbauer, R. Merz and G. Blöschl, 2012. Step changes in the flood frequency curve: Process controls, *Water Resources Research*, **48**(5), W05544, 15 pp., doi:10.1029/2011WR011187.
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12. Zoccatelli, D., M. Borga, A. Viglione, G.B. Chirico and G. Blöschl, 2011. Spatial moments of catchment rainfall: rainfall spatial organisation, basin morphology, and flood response, *Hydrology and Earth System Sciences*, **15**, 3767-3783, doi:10.5194/hess-15-3767-2011.
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8. Gaume, E., L. Gaál, A. Viglione, J. Szolgay, S. Kohnová and G. Blöschl, 2010. Bayesian MCMC approach to regional flood frequency analyses involving extraordinary flood events on ungauged sites, *Journal of Hydrology*, **394**(1-2), 101-117, doi:10.1016/j.jhydrol.2010.01.008.
7. Viglione, A., M. Borga, P. Balabanis and G. Blöschl, 2010. Barriers to the exchange of hydrometeorological data in Europe: Results from a survey and implications for data policy, *Journal of Hydrology*, **394**(1-2), 63-77, doi:10.1016/j.jhydrol.2010.03.023.
6. Vezza, P., C. Comoglio, M. Rosso and A. Viglione, 2010. Low flows regionalization in North-Western Italy, *Water Resources Management*, **24**(14), 4049-4074, doi:10.1007/s11269-010-9647-3.
5. Ganora, D., P. Claps, F. Laio and A. Viglione, 2009. An approach to estimate non-parametric flow duration curves in ungauged basins, *Water Resources Research*, **45**(10), W10418, doi:10.1029/2008WR007472.
4. Viglione, A., R. Merz and G. Blöschl, 2009. On the role of the runoff coefficient in the mapping of rainfall to flood return periods, *Hydrology and Earth System Sciences*, **13**(5), 577-593, doi:10.5194/hess-13-577-2009.
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6. Blöschl, G., J. Komma, T. Nester, M. Rogger, J.L. Salinas und A. Viglione, 2018. Die Wirkung des Waldes auf Hochwässer (The effect of forests on floods), *Wildbach- und Lawinenverbau*, **181**, 288-296, ISBN:978-3-9504159-5-7.
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11. Gupta, H.V., G. Blöschl, J.J. McDonnell, H.H.G. Savenije, M. Sivapalan, A. Viglione and T. Wagener, 2013. *Outcomes of synthesis*, Chapter 12 in: G. Blöschl, M. Sivapalan, T. Wagener, A. Viglione, H.H.G. Savenije (Eds.) *Runoff Prediction in Ungauged Basins - Synthesis across Processes, Places and Scales*, Cambridge University Press, Cambridge, UK, pp. 361-383, ISBN:9781107028180.
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SOFTWARES

3. Parajka, J. and A. Viglione, 2012-present. TUWmodel: Lumped hydrological model developed at the Vienna University of Technology for education purposes, R package.
2. Viglione, A., 2006-present. nsRFA: Non-supervised Regional Frequency Analysis, R package.
1. Viglione, A., 2006. homtest: Homogeneity tests for Regional Frequency Analysis, R package.

THESES

3. Viglione, A., 2018. Understanding and Estimating River Flood Hazards across Timescales: from Flood Events to Long-Term Dynamics, Habilitation thesis at the Vienna University of Technology.
2. Viglione, A., 2007. Metodi statistici non-supervised per la stima di grandezze idrologiche in siti non strumentati (Non-supervised statistical methods for the prediction of hydrological variables in ungauged sites), Ph.D. thesis at the Politecnico of Turin (in Italian).
1. Viglione, A., 2002. Struttura della turbolenza in correnti su superfici vegetate (Turbulence structures in the canopy layer), M.S. thesis at the Politecnico of Turin (in Italian).



PHD EXAMINER

8. Nivedita Sairam, 2020. Bayesian Approaches for Modelling Flood Damage Processes, *Humboldt University Berlin*, Berlin, Germany, XX September 2020.
7. Silvia Cordero, 2019. Metodologie statistiche e sperimentali per il supporto ai piani di emergenza in presenza di invasi artificiali, *Politecnico di Torino*, Torino, Italy, 19 July 2019.
6. Anna Åkesson, 2015. Peakflow response of stream networks - implications of physical descriptions of streams and temporal change, *KTH Royal Institute of Technology*, Stockholm, Sweden, 29 September 2015.
5. Muhammad Azmat, 2015. Water Resources Availability and Hydropower Production under Current and Future Climate Scenarios: The Case of Jhelum River Basin, Pakistan, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
4. Andrea Guala, 2015. Mathematical modelling of cardiovascular fluid mechanics: physiology, pathology and clinical practice, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
3. Muhammad Uzair Qamar, 2015. Parametric and non-parametric approaches for runoff and rainfall regionalization, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
2. Andrea Cagninei, 2015. Hull and mooring design of a gyroscopic-based wave energy converter, *Politecnico di Torino*, Torino, Italy, 27 February 2015.
1. Anna Botto, 2015. Uncertainty Compliant Design of flood-defense infrastructures: a cost-benefit approach, *Scuola Interpolitecnica di Dottorato*, Turin, Italy.

COURSES

2019/2020

- *Coping with extreme events*, ECTS: 3.0
01UMYSL, Politecnico di Torino, Italy
(with Prof. Costantino Manes)
- *Applied hydrology/Environmental Fluid Mechanics*, ECTS: 12.0
01UCHNF, Politecnico di Torino, Italy
(with Prof. Costantino Manes)
- *Computer-aided modelling of water infrastructures*, ECTS: 6.0
01UDMMX, Politecnico di Torino, Italy
(with Prof. Paolo Vezza)
- *Protezione idraulica del territorio*, ECTS: 8.0
03CCSNF, Politecnico di Torino, Italy
(with Prof. Daniele Ganora)
- *Runoff Predictions in Ungauged Basins (PUB)*,
Summer School, 6-10 Jul. 2020, Vienna, Austria
(with several colleagues)

2018/2019

- *Risikobewertung im Bauingenieurwesen*, ECTS: 3.0
222.566 (VU) Vienna University of Technology, Austria
(with Prof. Christian Bucher and Prof. Günter Blöschl)
- *Ingenieurhydrologie 2*, ECTS: 3.0
222.570 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka and Dr. José Luis Salinas)
- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 29 Oct.-9 Nov. 2018, Delft, The Netherlands
(with several colleagues)
- *Runoff Predictions in Ungauged Basins (PUB)*,
Summer School, 1-5 Jul. 2019, Vienna, Austria
(with several colleagues)

2017/2018



- *Focus: Energy, Mobility and Environment: Resilience - understanding, strategies, projects*, ECTS: 4.0
280.532 (VO) Vienna University of Technology, Austria
(with several colleagues)
- *Risikobewertung im Bauingenieurwesen*, ECTS: 3.0
222.566 (VU) Vienna University of Technology, Austria
(with Prof. Christian Bucher and Prof. Günter Blöschl)
- *Ingenieurhydrologie 2*, ECTS: 3.0
222.543 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka and Dr. Doris Dütthmann)
- *Hydrometrie*, ECTS: 3.0
222.092 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 30 Oct.-10 Nov. 2017, Delft, The Netherlands
(with several colleagues)
- *Runoff Predictions in Ungauged Basins (PUB)*,
Summer School, 2-6 Jul. 2018, Vienna, Austria
(with several colleagues)

2016/2017

- *Ingenieurhydrologie 2*, ECTS: 3.0
222.543 (VO) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Hydrometrie*, ECTS: 3.0
222.092 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 31 Oct.-11 Nov. 2016, Delft, The Netherlands
(with several colleagues)
- *Runoff Predictions in Ungauged Basins (PUB)*,
Summer School, 3-7 Jul. 2017, Vienna, Austria
(with several colleagues)

2015/2016

- *Ingenieurhydrologie 2*, ECTS: 3.0
222.543 (VO) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Hydrometrie*, ECTS: 3.0
222.092 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 9-20 Nov. 2015, Delft, The Netherlands
(with several colleagues)
- *Runoff Predictions in Ungauged Basins (PUB)*,



Summer School, 4-8 Jul. 2016, Vienna, Austria
(with several colleagues)

2014/2015

- *Ingenieurhydrologie 2*, ECTS: 3.0
222.543 (VO) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Hydrometrie*, ECTS: 3.0
222.092 (VU) Vienna University of Technology, Austria
(with Prof. Juraj Parajka)
- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 17-28 Nov. 2014, Delft, The Netherlands
(with several colleagues)
- *Runoff Predictions in Ungauged Basins (PUB)*,
Summer School, 6-10 Jul. 2015, Vienna, Austria
(with several colleagues)

2013/2014

- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Where there is little data: how to estimate design variables in poorly gauged basins*,
UNESCO-IHE short course, 11-22 Nov. 2013, Delft, The Netherlands
(with several colleagues)

2012/2013

- *Ingenieurhydrologie*, ECTS: 1.0
222.539 (UE) Vienna University of Technology, Austria
(with several colleagues)
- *Advanced techniques for flood hazard assessment in a changing environment*,
FloodFreq training school, Limassol, Cyprus, 8-12 Oct. 2012.
(with several colleagues)
- Winter Research Workshop on *Comparative Hydrology*,
Ethiopian Institute of Water Resources, Addis Ababa, 26 Dec. 2011-13 Jan. 2012.
(with Prof. Murugesu Sivapalan)

OTHER TEACHING
EXPERIENCES

Seminars

- *Using R in Hydrology*, IAHS Workshop at the 27th IUGG General Assembly, 9 Jul. 2019, Montreal, 2019.
- *Flood Frequency Hydrology: Bayesian analysis*, SPATE, 13 Feb. 2018, Halle, 2017.
- *Flood Frequency Hydrology: Bayesian analysis*, System-Risk, 24 Jan. 2017, Bologna, 2017.
- *Top-Kriging: geostatistical prediction of streamflow indices - theory and practice* at the Bochum IAHS - 18-20 May 2016 7th International Water Resources Management Conference of ICWRS, Bochum, 2016.
- *Storm water hydrology: flood peak estimation, statistical analysis and rainfall-runoff modelling* at the course 'Integrated water resources management' for the International Post-Graduate Training Programme in Limnology IPGL2010, Vienna, 2010.
- *Model building and simulations* at graduate courses of Hydrology. Vienna University of Technology, 2009 - 2012.
- *Storm water hydrology* at the course 'Management and governance of the integrated water service cycle' for Hydroaid - International School for Water and Development, Turin, 2008.



- *A stochastic rainfall model in R* at graduate courses of Hydrology. Vienna University of Technology, 2009 - 2010.
- *Intensity-Duration-Frequency curves* at the ‘Training course on management and control of water resources’ for Hydroaid - International School for Water and Development, Turin, 2006.
- *Regional Frequency Analysis* at graduate courses of Hydrology, Politecnico di Torino, Turin, 2005.

SUPERVISION OF
STUDENTS

Ph.D. co-supervision

- | | | |
|----|--|-------------|
| 4. | <i>Matteo Pesce</i>
Characterization of extreme meteo-hydrological events in the Alpine Region: historical picture and future scenarios | 2019 - 2022 |
| 3. | <i>David Lun</i>
Detection of flood-reach and flood-poor periods | 2017 - 2021 |
| 2. | <i>Miriam Bertola</i>
Flood change attribution: considering sources and pathways for understanding the past | 2017 - 2020 |
| 1. | <i>Marlies Barendrecht</i>
Socio-hydrology: understanding the generic behaviour of coupled human-flood systems at the centennial scale | 2016 - 2020 |

M.S. co-supervision

- | | | |
|-----|--|------|
| 12. | <i>Lorenzo Trotta</i> (University Roma 3)
Generalised framework of river work effects on flood response at the catchment scale: Application on Kamp River. | 2016 |
| 11. | <i>Elisa Formica</i> (Politecnico di Torino)
Regionalisation procedure for Intensity-Duration-Frequency curves of precipitation in the Austrian Alps. | 2016 |
| 10. | <i>Daniele Franco</i> (University Roma 3)
River work effects on flood response at the catchment scale | 2016 |
| 9. | <i>Alessio Cipolli</i> (University of Florence)
Synchronicity of flood events across the Danube river basin | 2015 |
| 8. | <i>Alessio Ciullo</i> (Bologna University)
Socio-hydrological modelling of flood-risk dynamics: quantifying community resilience and adaptation capacity | 2015 |
| 7. | <i>Walter Mangini</i> (Politecnico di Torino)
Development of a catalogue of flood types across Europe | 2015 |
| 6. | <i>Maria Anastasia Como</i> (Politecnico di Torino)
Sensibilità ai cambiamenti climatici delle portate di piena nei bacini alpini | 2015 |
| 5. | <i>Paola Almeida Soares</i> (Bologna University)
Development of a catalogue of flood types across Europe | 2015 |
| 4. | <i>Stefano Mallucci</i> (Politecnico di Torino)
Assessment of seasonality of European flood peaks and its variations in time and space | 2015 |
| 3. | <i>Elena Diamantini</i> (Politecnico di Torino)
Flood change in Europe: trend detection of flood peaks’ magnitude | 2015 |
| 2. | <i>Thomas Glatz</i> (Vienna University of Technology)
Auswirkung von Klimavariabilität und wasserwirtschaftlichen Maßnahmen auf Niederwasserdurchflüsse in Niederösterreich | 2014 |
| 1. | <i>Ulrike Gabriele Kobler</i> (Vienna University of Technology)
Niederschlag-Abflussmodellierung: Abhängigkeit der Modellparameter von Zeit und Zielfunktionen | 2013 |

Others

- Teaching assistance at graduate courses of Hydrology, Vienna University of Technology, 2009 - 2018.
- Teaching assistance at graduate courses of Water Resources Planning and Management, Politecnico di Torino, Turin, 2005 - 2006.



- Teaching assistance at graduate courses of Hydrology, Politecnico di Torino, Vercelli, 2004 - 2005.
- B.S. thesis advisor or co-advisor for 3 students; M.S. thesis advisor or co-advisor for 3 students, Politecnico di Torino, Turin, 2004 - 2007.

PROJECTS

12. **SozioHydroKopplung** 2017 - 2019
Entwicklung gekoppelter Modelle für ausgewählte Aspekte des Systems Mensch-Wasser (Development of a coupled model for selected aspects of the system human-water)
Bundesanstalt für Gewässerkunde (bfg, German Federal Institute of Hydrology)
(project leader, €344k)
11. **RainBO** 2016 - 2019
Bologna urban environment adaptation plan for a resilient city
European project co-financed by the LIFE Program (LIFE15CCA/IT/00035)
(Advisory Board member)
10. **SPATE** 2017 - 2019
Space-Time Dynamics of Extreme Floods
Deutsche Forschungsgemeinschaft (DFG, German Research Foundation), Germany
(responsible for the development of methods for detection of flood-rich flood-poor periods)
9. **HORA 3.0** 2016 - 2018
Flood risk zoning in Austria 3.0 - hydrological analyses
Federal Ministry of Agriculture, Forestry, Environment and Water Management, Austria
(project leader, €480k)
8. **System Risk** 2016 - 2019
A large-scale systems approach to flood risk assessment and management
Horizon 2020 Marie-Sklódowska-Curie European Training Network, EU
(project leader at TU Wien, €512k)
7. **Switch-On** 2013 - 2017
Sharing Water-related Information to Tackle Changes in the Hydrosphere - for Operational Needs
European Union's Seventh Programme for research, technological development and demonstration, EU
(responsible for the development of an European open-source flood catalogue)
6. **FloodChange** 2012 - 2017
Deciphering River Flood Change
European Research Council Advanced Grant, EU
(responsible for flood change modelling and attribution)
5. **CILFAD** 2011 - 2014
Climate Impact on Low Flows And Droughts
Austrian Research Promotion Agency, Austria
(responsible for stochastic low flow modelling)
4. **Mountain floods** 2009 - 2012
Regional joint probability estimation of extreme events
International Strategy for Disaster Reduction (ISDR) Programme, UN
(responsible for flood frequency analysis at confluences)
3. **HYDRATE** 2007 - 2010
Hydrometeorological data resources and technologies for effective flash flood forecasting
Sixth Framework Programme of the European Commission (FP 6), EU
(responsible for flash flood space-time modelling framework)
2. **CUBIST** 2006 - 2007
Characterisation of Ungauged Basins by Integrated use of hydrological Techniques
Progetti di ricerca di interesse nazionale (PRIN), Ministero dell'Istruzione, dell'Università e della Ricerca, Italy
(responsible for the development of the Italian catchments data-base)



1. **PTA Piemonte** 2003 - 2007
Piano di Tutela delle Acque della Regione Piemonte
 Regione Piemonte, Italy
 (responsible for the regional assessment of water resources availability)

- ASSOCIATE EDITOR - **Journal of Hydrology and Hydromechanics**, Sciendo 2019 - present
 ISSN: 0042-790X (Online)
 - **Water Resources Research**, Wiley 2014 - present
 ISSN: 1944-7973 (Online)
 - **WIREs Water**, Wiley 2012 - present
 ISSN: 2049-1948 (Online)
 - **Hydrological Sciences Journal**, Taylor & Francis 2012 - 2018
 ISSN: 0262-6667 (Print), 2150-3435 (Online)

- REVIEWER - **Water Security**, Elsevier since 2018
 ISSN: 2468-3124
 - **Global and Planetary Change**, Elsevier since 2018
 ISSN: 0921-8181
 - **Earth System Dynamics**, Copernicus since 2018
 ISSN: 2190-4979
 - **Proc. of the Intern. Assoc. of Hydrological Sciences**, Copernicus since 2017
 ISSN: 2199-8981
 - **Earth Future**, Wiley since 2017
 ISSN: 2328-4277 (Online)
 - **Land Use Policy**, Elsevier since 2017
 ISSN: 0264-8377
 - **Advances in Geosciences**, Copernicus since 2016
 ISSN: 1680-7359
 - **Water Resources Management**, Springer since 2016
 ISSN: 0920-4741 (Print) 1573-1650 (Online)
 - **Stochastic Environmental Research and Risk Assessment**, Springer since 2015
 ISSN: 1436-3240 (Print) 1436-3259 (Online)
 - **Australian Journal of Water Resources**, Taylor & Francis since 2015
 ISSN: 1324-1583 (Print), 2204-227X (Online)
 - **Physical Geography**, Taylor & Francis since 2015
 ISSN: 0272-3646 (Print), 1930-0557 (Online)
 - **Journal of Hydrologic Engineering**, ASCE since 2014
 ISSN: 1084-0699
 - **Journal of Hydrology: Regional Studies**, Elsevier since 2014
 ISSN: 2214-5818
 - **Journal of Hydrology and Hydromechanics**, De Gruyter since 2014
 ISSN: 0042-790X
 - **Hydrology Research**, IWA since 2014
 ISSN: 0029-1277
 - **Quaternaire**, AFEQ since 2013
 ISSN: 1965-0795
 - **Advances in Water Resources**, Elsevier since 2012
 ISSN: 0309-1708
 - **Geophysical Research Letters**, Wiley since 2012
 ISSN: 1944-8007
 - **Natural Hazards and Earth System Sciences**, Copernicus since 2012



- ISSN: 1561-8633 (Print), 2195-9269 (Online)
- **Natural Hazards**, Springer since 2011
ISSN: 0921-030X (Print), 1573-0840 (Online)
 - **International Journal of Climatology**, Wiley since 2010
ISSN: 1097-0088
 - **Hydrological Processes**, Wiley since 2009
ISSN: 1099-1085
 - **Physics and Chemistry of the Earth**, Elsevier since 2008
ISSN: 1474-7065
 - **Hydrological Sciences Journal**, Taylor & Francis since 2008
ISSN: 0262-6667 (Print), 2150-3435 (Online)
 - **Journal of Hydrology**, Elsevier since 2008
ISSN: 0022-1694
 - **Hydrology and Earth System Sciences**, Copernicus since 2007
ISSN: 1027-5606 (Print), 1607-7938 (Online)
 - **Water Resources Research**, Wiley since 2007
ISSN: 1944-7973

- COMMISSIONS AND ASSOCIATIONS
3. Co-chair of the EGU Subdivision on Catchment Hydrology, 2019-2023.
 2. Secretary of the IAHS International Commission on Water Resources Systems, 2015-2019.
 1. Leader of the Panta Rhei IAHS working group “Understanding flood changes”, 2013-2022.

- CONFERENCE ORGANISATION
3. 8th International Water Resources Management Conference of ICWRS (IAHS), 13-15 June 2018, Beijing, China.
 2. International Conference on Integrated Water Resources Management 2016, 18-20 May 2016, Bochum, Germany.
 1. Symposium ‘Deciphering River Flood Change’, Vienna, 3-5 September 2012.

- CONVENER
- 2021 - 2023**
38. Müller-Thomy, H., M. Borga, A. Gires, J.L. Salinas Illarena and A. Viglione, 2021. Hydrometeorologic stochastics for hydrologic applications: extremes, scales, probabilities, HS7.7 session at the *European Geoscience Union General Assembly*, Online, 19-30 April 2021.
 37. Farmer, W., H. Kreibich, L. Mediero, A. Viglione and S. Vorogushyn, 2020. Space-time dynamics of floods: processes, controls, and risk, HS2.4.5 session at the *European Geoscience Union General Assembly*, Online, 19-30 April 2021.

- 2018 - 2020**
36. Ahmadisharaf, E., M.I. Brunner, A. Viglione and A. Rajib, 2020. Advances in the Prediction and Application of Design Floods, H193 session at the *AGU Fall Meeting*, 1-17 December 2020, Online Everywhere.
 35. Farmer, W., H. Kreibich, L. Mediero, A. Viglione and S. Vorogushyn, 2020. Space-time dynamics of floods: processes, controls, and risk, HS2.4.3 session at the *European Geoscience Union General Assembly*, Online, 4-8 May 2020.
 34. Viglione, A., S. Fischer, B. Merz, A. Schumann, C. White, S. Grimaldi, P. Pilon, A. Amani and T. Koike, 2019. Floods: processes, forecasts, probabilities, impact assessments and management, H16 IAHS symposium at the *27-th IUGG General Assembly*, Montréal, Canada, 8-18 July 2019.
 33. Zhou, J., Y. Chen, M. Borga, H. Aksoy, A. Gelfan, A. Viglione, G. Mahé and H. Kunstmann, 2019. Modeling hydrological processes and changes under a changing environment, H24 IAHS



- symposium at the *27-th IUGG General Assembly*, Montréal, Canada, 8-18 July 2019.
32. Batlló Ortiz, J., A. Viglione, J. Ádám, E. Cliver, K. Harper, B. Raup, F. Fetterer, E. Pattabhi Rama Rao and R. Carniel, 2019. Old data for new knowledge: preservation and utilization of historical data in the geosciences, JS06 Inter-Association symposium at the *27-th IUGG General Assembly*, Montréal, Canada, 8-18 July 2019.
 31. Salinas, J.L., M. Borga, A. Gires, R.A.P. Perdigão and A. Viglione, 2019. Hydroclimatic and hydrometeorologic stochastics: Extremes, scales, probabilities, HS7.7 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2019.
 30. Farmer, W., H. Kreibich, L. Mediero, A. Viglione and S. Vorogushyn, 2019. Space-time dynamics of floods: processes, controls, and risk, HS2.4.2 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2019.
 29. Chen, Y., M. Borga, Z. Xu, Z.P. Sheng, A. Viglione and M.L. Levent Kavvas, 2018. Modeling Hydrological Processes and Changes Under a Changing Environment, H31F session at the *AGU Fall Meeting*, 10-14 December 2018, Washington, D.C., USA.
 28. Viglione, A., et al., 2018. Hydrometeorologic variability: spatio-temporal scales and probability of extremes, HS7.7/NH1.18 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 8-13 April 2018.
 27. Vorogushyn, S., W. Farmer, H. Kreibich, L. Mediero and A. Viglione, 2018. River flood dynamics and risk: processes, controls, consequences, HS2.4.3/NH1.25 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 8-13 April 2018.
 26. Nüsser, M., M. Sivapalan, B. Höllermann, G. Di Baldassarre, A. Viglione and S. Pande, 2018. Advances in socio-hydrology, HS5.3 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 8-13 April 2018.

2015 - 2017

25. Chen, Y., M. Borga, Z. Xu, Z.P. Sheng, A. Viglione and M.L. Levent Kavvas, 2017. Modeling Hydrological Processes and Changes Under a Changing Environment, H33N session at the *AGU Fall Meeting*, 11-15 December 2017, New Orleans, Louisiana, USA.
24. Rogger, M., G. Jewitt, A. Viglione and M. Toucher, 2017. Land use change impacts on water resources, W15 workshop at the *IAHS Scientific Assembly*, Port Elizabeth, South Africa, 10-14 July 2017.
23. White, C., et al., 2017. Probabilistic forecasts and land-atmosphere interactions to advance hydrological predictions, W19 workshop at the *IAHS Scientific Assembly*, Port Elizabeth, South Africa, 10-14 July 2017.
22. Viglione, A., et al., 2017. Hydroclimatic and hydrometeorologic stochastics: Extremes, scales, probabilities, HS7.7/NH1.17 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 23-28 April 2017.
21. Pande, S., M. Sivapalan, B. Höllermann, G. Di Baldassarre, M. Nüsser and A. Viglione, 2017. Advances in socio-hydrology HS5.3 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 23-28 April 2017.
20. Van Loon, A., et. al., 2017. Hydrological extremes: from droughts to floods, HS2.1.1 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 23-28 April 2017.
19. Gires, A., et al., 2016. Precipitation variability: spatio-temporal scales and hydrometeorologic extremes, HS7.9/AS1.30/CL2.21/NH1.12/NP3.8 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
18. Pande, S., A. Viglione, G. Di Baldassarre and M. Sivapalan, 2016. Advances in socio-hydrology, HS5.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
17. Mediero, L., H. Kreibich, A. Viglione and S. Vorogushyn, 2016. Flood dynamics: processes, controls, consequences, HS2.4.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.
16. Van Loon, A., J. Szolgay, L.M. Tallaksen, G. Laaha and A. Viglione, 2016. Hydrological extremes: from droughts to floods, HS2.1.1 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 17-22 April 2016.



15. Cudennec, C., A. Eicker, P. Pilon, M. Stoffel, A. Viglione, Z. Xu and X. Zhang, 2015. Extreme Hydrological Events, JH1 Joint Inter-Association Symposia at the *26-th IUGG General Assembly*, Prague, June 22 - July 2, 2015.
14. Aksoy, H., M. Sivapalan, Y. Chen, A. Viglione, R. Moussa and E. Eris, 2015. Hydrological Predictions in Ungauged Basins, HW13 IAHS Symposia Workshop at the *26-th IUGG General Assembly*, Prague, June 22 - July 2, 2015.
13. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2015. Hydrological extremes: from droughts to floods, HS2.4.1 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.
12. Mediero, L., A. Viglione, S. Vorogushyn and H. Kreibich, 2015. Flood changes: understanding the drivers of hazard and risk, HS2.4.4 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.
11. Carsteanu, A.A., A. Viglione, L. Gaál, S. Lennartz-Sassinek, M. Borga, A. Gires, A. Langousis, X. Wang, D. Koutsoyiannis, S. Grimaldi and V. Vuruputur, 2015. Hydroclimatic and hydrometeorologic stochasticity: Extremes, scales, probabilities, HS7.7/NP3.8 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 12-17 April 2015.

2010 - 2014

10. Viglione, A., S. Grimaldi, A. Castellarin and D. Ganora, 2014. Analisi idraulico-idrologiche in bacini non strumentati, sessione al *XXXIV Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bari, Italia, 8-10 Settembre 2014.
9. Formetta, G., M. Di Leo, A. Viglione, and A. Castellarin, 2014. Open-source computing per le applicazioni idrologiche e idrauliche, sessione al *XXXIV Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bari, Italia, 8-10 Settembre 2014.
8. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2014. Hydrological extremes: from droughts to floods, HS2.4.2 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 27 April - 2 May 2014.
7. Mediero, L., A. Viglione and S. Vorogushyn, 2014. Decadal flood risk changes, HS2.4.7 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 27 April - 2 May 2014.
6. Langevin, C., A. Viglione, A. Castellarin and M. Bakker, 2013. Open-Source Programming, Scripting, and Tools for the Hydrological Sciences, session at the *American Geophysical Union's 46th annual Fall Meeting*, San Francisco, 9-13 December 2013.
5. Viglione, A., A. Castellarin, J. Szolgay, L.M. Tallaksen and G. Laaha, 2013. Hydrological extremes: from droughts to floods, HS2.2 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2013.
4. Mediero, L., A. Viglione and A. Kiss, 2013. Decadal flood risk changes, HS2.13 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 7-12 April 2013.
3. Viglione, A., L.M. Tallaksen, G. Laaha, A. Castellarin and J. Szolgay, 2012. Hydrological extremes: from droughts to floods, HS2.6 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 22-27 April 2012.
2. Viglione, A., J. Szolgay, L.M. Tallaksen and G. Laaha, 2011. Hydrological extremes: from droughts to floods (co-organized), HS2.11/NH1.14 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 3-8 April 2011.
1. Laaha, G., J. Szolgay, L.M. Tallaksen and A. Viglione, 2010. Hydrological extremes: from droughts to floods, HS4.12 session at the *European Geoscience Union General Assembly*, Vienna, Austria, 2-7 May 2010.

INVITED
PRESENTATIONS

8. Barendrecht, M.H., A. Viglione, H. Kreibich, B. Merz, S. Vorogushyn and G. Blöschl, 2019. The value of empirical data for estimating the parameters of a socio-hydrological flood risk model, *IUGG General Assembly*, Montréal, Canada, 8-18 July 2019.
7. Viglione, A., 2019. Understanding and Estimating River Flood Hazards across Timescales: from Flood Events to Long-Term Dynamics, *Geophysical Research Abstracts*, Vol. 21, EGU2019-6679.
6. Viglione, A., M. Barendrecht, H. Kreibich, S. Vorogushyn, B. Merz and G. Blöschl, 2018. A Socio-hydrological flood model for the Elbe, *8th International Water Resources Management*



- Conference*, IAHS, Beijing, China, 13-15 June 2018.
5. Viglione, A., 2015. Runoff Prediction in Ungauged Basins: Synthesis across Processes, Places and Scales, Invited presentation at *ETH Zürich*, 15 June 2015, Zürich, Switzerland.
 4. Viglione, A., J. Hall, J. Parajka, P. Claps and G Blöschl, 2013. Observed change of seasonality of floods in Europe: a spatial comparison, Invited presentation at the *AGU Fall Meeting*, 9-13 December 2013, San Francisco, US.
 3. Viglione, A., G. Di Baldassarre, L. Brandimarte, L. Kuil, G. Carr, J.L. Salinas, A. Scolobig and G. Blöschl, 2013. Insights from socio-hydrology modelling on dealing with flood risk: roles of collective memory, risk-taking attitude and trust, Invited presentation at the *AGU Fall Meeting*, 9-13 December 2013, San Francisco, US.
 2. Viglione, A., 2013. Dealing with uncertainty in flood-hydrology: complementary approaches, Invited presentation at the *AGU Fall Meeting*, 9-13 December 2013, San Francisco, US.
 2. Viglione, A., 2013. Dealing with uncertainty in flood-hydrology: complementary approaches, Young scientist invited talk for the *Leonardo conference 'Facets of Uncertainty'*, 17-19 October 2013, Kos Island, Greece.
 1. Viglione, A., 2012. Black Swans in Flood Hydrology, Invited talk at the *Vienna Catchment Science Symposium*, Saturday 28th April 2012, Vienna, Austria.

OTHER
CONFERENCE
PRESENTATIONS

- 2021**
147. Barendrecht, M.H., A. Viglione, H. Kreibich and G. Blöschl, 2021. A Budyko-like framework for exploring the controls of long-term flood risk in coupled human-flood systems, *EGU General Assembly 2021*, online 19-30 April 2021, doi:10.5194/egusphere-egu21-6266.
 146. Viglione A. and J. Mukherjee, 2021. Human-flood systems: Why “pluralistic floods research” is a conceptual breakthrough? *EGU General Assembly 2021*, online 19-30 April 2021, doi:10.5194/egusphere-egu21-9163.
 145. Bertola, M., A. Viglione, S. Vorogushyn, D. Lun, B. Merz and G. Blöschl, 2021. Data-based attribution of changes in flood quantiles across Europe between 1960 and 2010, *EGU General Assembly 2021*, online 19-30 April 2021, doi:10.5194/egusphere-egu21-2604.
 144. Pesce, M., A. Viglione, A. Borre, S. Gabellani, J. von Hardenberg and D. Ganora, 2021. Identification of meteo-hydrological extreme events at the regional scale: the Northwestern Italy case study, *EGU General Assembly 2021*, online 19-30 April 2021, doi:10.5194/egusphere-egu21-13376.
 143. Boano, F., A. Viglione and B. Vigna, 2021. Identifying distributions of response times in karst aquifers, *EGU General Assembly 2021*, online 19-30 April 2021, doi:10.5194/egusphere-egu21-15209.
- 2020**
142. Viglione, A., A. Kiss and G. Blöschl, 2020. Flood-rich periods in the last 500 years in Europe, *AGU Fall Meeting*, 1-17 December 2020, Online Everywhere.
 141. Borzì, I., B. Bonaccorso, A. Viglione and M. Sivapalan, 2020. Impacts of Droughts on Water Resources System From the Perspective of Mutual Interactions Between Society and Environment, *AGU Fall Meeting*, 1-17 December 2020, Online Everywhere.
 140. Pesce, M., J. von Hardenberg and A. Viglione 2020. A Correlation Analysis of Extreme Climate Indices and River Flood Events in Northwestern Italy, *AGU Fall Meeting*, 1-17 December 2020, Online Everywhere.
 139. Pesce, M., L. Tarasova, R. Merz, J. von Hardenberg and A. Viglione, 2020. Characterization of extreme meteo-hydrological events in the Alpine Region: historical picture and future scenarios, *EGU General Assembly 2020*, online 4-8 May 2020, doi:10.5194/egusphere-egu2020-498.
 138. Kreibich, H. et al., 2020. Panta Rhei Benchmark Dataset, *EGU General Assembly 2020*, online 4-8 May 2020, doi:10.5194/egusphere-egu2020-10001.
 137. Bertola, M., A. Viglione, D. Lun, J. Hall and G. Blöschl, 2020. Regional trends in flood quantiles across Europe between 1960 and 2010, *EGU General Assembly 2020*, online 4-8 May 2020, doi:10.5194/egusphere-egu2020-10395.
 136. Claps, P., D. Ganora, A. viglione and A. Apostolo, 2020. Trends in flood quantiles of the Italian alpine basins: statistical testing and directions for attribution, *EGU General Assembly 2020*,



online 4–8 May 2020, doi:10.5194/egusphere-egu2020-11652.

135. Lun, D. et al. 2020. Characteristics and process controls of statistical flood moments in Europe - a data based analysis, *EGU General Assembly 2020*, online 4–8 May 2020, doi:10.5194/egusphere-egu2020-16969.
134. Barendrecht, M., S. McCarthy and A. Viglione, 2020. A comparative analysis of property level flood mitigation behaviour in the regions of England, *EGU General Assembly 2020*, online 4–8 May 2020, doi:10.5194/egusphere-egu2020-16099.
133. Borzı et al., 2020. Effects of Interactions Between Society and Environment on Policy in Water Resources Management: Exploring Scenarios of Natural and Human-Induced Shocks, *EGU General Assembly 2020*, online 4–8 May 2020, doi:10.5194/egusphere-egu2020-17936.
132. Di Baldassarre, G. et al., 2020. How sociohydrology can help address the global water crisis and meet the sustainable development goals, *EGU General Assembly 2020*, online 4–8 May 2020, doi:10.5194/egusphere-egu2020-22381.

2019

131. Tavares da Costa, R. et al., 2019. Impact of Catchment Grouping using Machine Learning on Estimating Envelope Curves of Extreme Floods in Alpine Catchments, *AGU Fall Meeting*, San Francisco, USA, 9-13 December 2019.
130. Di Baldassarre, G. et al., 2019. How sociohydrology can help address the global water crisis, *AGU Fall Meeting*, San Francisco, USA, 9-13 December 2019.
129. Borzı, I., M. Sivapalan, B. Bonaccorso and A. Viglione, 2019. Exploring Interactions between Society and Environment for Sustainable Water Resources Management under Natural and Human-Induced Shocks, *AGU Fall Meeting*, San Francisco, USA, 9-13 December 2019.
128. Claps, P., D. Ganora, A. Libertino and A. Viglione, 2019. Attribution of Quantile Changes in Alpine Floods to Upward Shifts of Freezing Level, *AGU Fall Meeting*, San Francisco, USA, 9-13 December 2019.
127. Guse, B., L. Wietzke, A. Viglione, B. Merz and S. Vorogushyn, 2019. What is the Role of Flood Wave Superposition for the Severity of Extreme Floods? *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
126. Tarasova, L., S. Basso, A. Viglione, D. Wendi, B. Guse, S. Vorogushyn, B. Merz and R. Merz, 2019. Development of Hierarchical Process-Based Classification of Runoff Events, *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
125. Lun, D., A. Viglione, S. Fischer and G. Bloschl, 2019. Detection of flood-rich and flood-poor periods in hydrological time series, *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
124. Kalantari, Z., F. Martinez, A. Viglione and G. Di Baldassarre, 2019. Understanding the interaction between Hydrological Extremes, Water Management and Society in the Anthropocene, *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
123. Bertola, M., A. Viglione and G. Bloschl, 2019. Towards the attribution of patterns of flood regime change in Europe to decadal oscillations of atmospheric, catchment and river system drivers, *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
122. Salinas, J.L., A. Kiss, A. Viglione, R. Viertl, G. Bloschl, 2019. A fuzzy Bayesian approach to flood frequency estimation with imprecise historical information, *IUGG General Assembly*, Montreal, Canada, 8-18 July 2019.
121. Bertola, M., A. Viglione and G. Bloschl, 2019. Towards the attribution of patterns of flood regime change in Europe to decadal oscillations of atmospheric, catchment and river system drivers, *Geophysical Research Abstracts*, Vol. 21, EGU2019-4850.
120. Volpi, E., M. Di Lazzaro, M. Bertola, A. Viglione and A. Fiori, 2019. Reservoir effects on flood hazard, *Geophysical Research Abstracts*, Vol. 21, EGU2019-6915.
119. Tarasova, L., S. Basso, A. Viglione and R. Merz, 2019. Towards hierarchical process-based classification of runoff events, *Geophysical Research Abstracts*, Vol. 21, EGU2019-8929.
118. Persiano, S., J.L. Salinas, J.R. Stedinger, W.H. Farmer, A. Viglione, G. Bloschl and A. Castellarin, 2019. Looking beyond spatial correlation in regional flood frequency analysis: exploring the potential of Generalized Least Squares and Top-kriging, *Geophysical Research Abstracts*, Vol. 21, EGU2019-10349.



117. Barendrecht, M.H., A. Viglione, S. McCarthy and G. Blöschl, 2019. Comparative socio-hydrology for the human-flood systems of the regions of England, *Geophysical Research Abstracts*, Vol. 21, EGU2019-5048.
116. Lun, D., A. Viglione and G. Blöschl, 2019. Detection of flood-rich and flood-poor periods in hydrological time series, *Geophysical Research Abstracts*, Vol. 21, EGU2019-14529.
115. Borzì, I., M. Sivapalan, A. Viglione and B. Bonaccorso, 2019. Socio-hydrological modeling to guide communities towards environmentally sustainable behaviour: Case study of Alcantara River Basin System (Italy), *Geophysical Research Abstracts*, Vol. 21, EGU2019-14017.
114. Guse, B., L. Wietzke, A. Viglione, B. Merz and S. Vorogushyn, 2019. What is the role of flood wave superposition for the severity of extreme floods?, *Geophysical Research Abstracts*, Vol. 21, EGU2019-15346.

2018

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