




## MEMBER PROFILE

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<b>Study areas</b>	
Countries / Regions	Romania, Danube River Basin

<b>Topics of last three projects</b>	
1	Evaluation of human pressures on a river's hydromorphology
2	Analysis of flood risk
3	Fluvial dynamics of channel patterns

	<b><u>Topics of last 10 publications</u></b>	<b><u>Publication links</u></b>
1	Alteration of braided rivers	<a href="http://dx.doi.org/10.1007/s00267-016-0701-7">http://dx.doi.org/10.1007/s00267-016-0701-7</a> , WOS: 0003791596000071
2	Methodology to assess a river's morphological quality	<a href="http://dx.doi.org/10.3390/w7062971">http://dx.doi.org/10.3390/w7062971</a> , WOS: 000361034400011
3	Urbanization effects on the river systems	<a href="http://dx.doi.org/10.1002/ehs2.1247">http://dx.doi.org/10.1002/ehs2.1247</a>
4	Variability of evaporation and evapotranspiration	<a href="http://dx.doi.org/10.1016/j.proenv.2016.03.033">http://dx.doi.org/10.1016/j.proenv.2016.03.033</a>
5	Land use impact on overland flow	<a href="http://dx.doi.org/10.1515/jwld-2016-0013">http://dx.doi.org/10.1515/jwld-2016-0013</a>
6	Soft measures for flood risk mitigation and adaptation	<a href="http://riscurisicatastrofe.reviste.ubbcluj.ro/Volume/XV_NR_18_1_2016/pdf/1_Zaharia_7_22.pdf">http://riscurisicatastrofe.reviste.ubbcluj.ro/Volume/XV_NR_18_1_2016/pdf/1_Zaharia_7_22.pdf</a>
7	Channel typology based on stability criteria	<a href="http://dx.doi.org/10.1016/j.proenv.2012.03.017">http://dx.doi.org/10.1016/j.proenv.2012.03.017</a>
8	Fluvial dynamics of braided rivers	<a href="http://dx.doi.org/10.4000/geomorphologie.7988">http://dx.doi.org/10.4000/geomorphologie.7988</a>
9	Conflicts in environmental protection and restoration activities	<a href="http://dx.doi.org/10.4000/developpementdurable.10550">http://dx.doi.org/10.4000/developpementdurable.10550</a>
10	Reconciling society and hydro morphological restoration	<a href="http://cinqcontinents.geo.unibuc.ro/6/6_14_Toroi_mac.pdf">http://cinqcontinents.geo.unibuc.ro/6/6_14_Toroi_mac.pdf</a>

## Research interests in water

<b>Climate &amp; Water</b>	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
<b>Hydrological extreme events</b>	Floods	Droughts	Ice phenomena							
<b>Water flow</b>	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
<b>Surface water</b>	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
<b>Ground water</b>	Soil water	Karst water	Hydrogeology	Recharge						
<b>Marine Environment</b>	Coastal waters	Estuarian waters								
<b>Aquatic habitats/ Ecosystems</b>	Wetlands	Lakes	Peatlands	Rivers						
<b>Water availability</b>	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
<b>Modelling and GIS</b>	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
<b>Water quality</b>	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
<b>Water &amp; Health</b>	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
<b>Water &amp; Energy</b>	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
<b>Water management/ policy</b>	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
<b>Water use</b>	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
<b>Water Law &amp; Economics</b>	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
<b>Socio-political aspects</b>	Water history	Water wars	Water & Poverty	Access to water						