

Prof. univ. dr. Croitoru Adina-Eliza

III. Proiecte științifice derulate de la ultima acreditare (2021)

Denumire proiect	Calitate (director/membru)	Studenti-doctoranzi implicați	Participări la conferințe in tematica proiectului	Publicații rezultate
<p>Redefining agro-climatic suitability zones for maize and winter wheat crops towards smart climate change-oriented agriculture in Romania (AGROCLIMRO). PN-III-P2-2.1-PED-2019-2310. Funded by UEFISCDI. 2020-2022.</p>	<p>Director</p>	<p>Bela KOBULNICZKY</p>	<p>Agro-climatological suitability conditions changes in Romania based on different databases. A historical approach. Csaba HORVATH, Adina-Eliza CROITORU, Bela KOBULNICZKY, Valentina STOIAN, Titus-Cristian MAN, Sorin Daniel VÂTCĂ, Seminarul Științific Dimitrie Cantemir, Universitatea Alexandru Ioan Cuza, Iași, 3-5 Septembrie 2021.</p> <p>Changes in temperature extremes in Romania (1961-2013). Adina-Eliza CROITORU, Andrej CEGLAR, Csaba HORVATH, Adrian TELCIAN, Bela KOBULNICZKI, IS-ENES3 Workshop, Universitatea din Belgrad, 27 Septembrie 2021.</p> <p>Assessment of Maize Crop Climatic Conditions Requirements. Sorin Vâtcă, Adina Croitoru, Stoian Vlad,</p>	<p>Regional Climate Models Validation for Agroclimatology in Romania. Bartok, B., Telcian, A.-S., Săcărea, C., Horvath, C., Croitoru, A.-E., Stoian, V.(2021) Atmosphere, 12, 978. (<a href="https://www.mdpi.com/2073-4433/12/8/978">https://www.mdpi.com/2073-4433/12/8/978</a>)</p> <p>Agrometeorological Requirements of Maize Crop Phenology for Sustainable Cropping—A Historical Review for Romania. Vâtcă, S.D., Stoian, V.A., Man, T.C., Horvath, C., Vidican, R., Gâdea, S, Vâtcă, A., Rotaru, A., Vârban, R., Moldovan, C, Stoian V (2021). Sustainability 2021, 13, 7719. (<a href="https://www.mdpi.com/2071-1050/13/14/7719">https://www.mdpi.com/2071-1050/13/14/7719</a>)</p>

			<p>Ștefania Gâdea, Stoian Valentina. Conferința Internațională Aerul și Apa -Componente ale Mediului, Universitatea Babeș-Bolyai, Cluj- Napoca, 22 Martie 2021.</p> <p>AGROCLIM – OPEN INNOVATION IN AGRICULTURE. Sorin POP, Sorin Daniel VÂTCĂ, Csaba HORVATH, Valentina Ancuța STOIAN, Adina CROITORU, 20th International Conference "Life Sciences for Sustainable Development" Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca, 23 – 24 Septembrie 2021.</p> <p>Assessing Changes of Water Resource Indices over Romania. Csaba HORVATH, Blanka BARTOK, Adina-Eliza CROITORU. Conferința Internațională Aerul și Apa – Componente ale Mediului, Universitatea Babeș-Bolyai, Cluj- Napoca, 18 martie 2022</p> <p>Crops Diversity And Cropped Yield Evolution Under Climatic Conditions From Brașov County. Sorin Vâtcă, Csaba Horvath, Ștefan Chircan, Ștefania Gâdea, Anamaria</p>	
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			<p>Vâtcă, Valentina Stoian, Multidisciplinary Scientific Conference on Sustainable Development, USAMVB Timisoara, 26-27 mai 2022</p> <p>Agroclimatic and soil suitability areas for maize crop in Romania. Adina-Eliza Croitoru, Csaba Horvath, Bela Kobulniczky, Titus-Cristian Man, Valentina Stoian, Sorin Daniel Vatca, Sorin Telcian, Vlad Stoian. Conferința Present Environment and Sustainable Development, Universitatea Al. I. Cuza Iași, 3-4 iunie 2022</p> <p>Changes in temperature extremes related to agriculture and water resources based on gridded daily data in Romania. Csaba HORVATH, Adina-Eliza CROITORU, Conferința Present Environment and Sustainable Development, Universitatea Al. I. Cuza Iași, 3-4 iunie 2022</p>	
Enhancing quality of life through urban heat island assessment (INTEGRATE) PN-III-P2-2.1-PTE-2021-0147. Contract	Responsabil de partener UBB	Banc/Mates Stefana	<ul style="list-style-type: none"> <li>Ioana HERBEL, Adina-Eliza CROITORU, Csaba HORVATH, Zsolt MAGYARISASKA, Titus-Cristian MAN (Babes-Bolyai University, Cluj-Napoca): A review on urban heat</li> </ul>	<ul style="list-style-type: none"> <li>Magyari-Sáska Z., Croitoru A.E., Horváth C., Dombay Ș. (2023), ClimShift – A new toolbox for the detection of climate change. Geoscience Data Journal. First</li> </ul>

<p>70PTE/2022, Funded by UEFISCDI. 2022-2024.</p>			<p>island in South-Eastern Europe. Seminarul Științific Dimitrie Cantemir, Universitatea Alexandru Ioan Cuta, Iași, 2022.</p> <ul style="list-style-type: none"> <li>• Csaba HORVATH, Zsolt MAGYARI-SASKA, Ioana HERBEL, Adina-Eliza CROITORU, Titus-Cristian MAN (Babes-Bolyai University, Cluj-Napoca): Assessing surface urban heat island intensity through remote sensing (Case study: city of Oradea). Seminarul Științific Dimitrie Cantemir, Universitatea Alexandru Ioan Cuta, Iași, 2022.</li> <li>• Csaba HORVATH, Zsolt MAGYARI-SASKA, Adina-Eliza CROITORU, Titus-Cristian MAN, Ioana HERBEL: The automatic identification of urban heat island hotspots (Case study: city of Cluj-Napoca). Seminarul Științific Dimitrie Cantemir, Universitatea Alexandru Ioan Cuta, Iasi, 2023.</li> <li>• Csaba HORVATH, Adina Eliza CROITORU, Zsolt MAGYARI-SASKA, Sorin POP, Ana Maria POP, Adrian Iuliu MOLDOVAN: Improving UHI spatial and temporal resolution by exploring the possibilities of correlating indices derived from</li> </ul>	<p>published: 21 December 2023  <a href="https://doi.org/10.1002/gdj3.234">https://doi.org/10.1002/gdj3.234</a></p> <ul style="list-style-type: none"> <li>• Magyari-Sáska Zsolt, Horvath Csaba, Pop Sorin, Croitoru Adina-Eliza (2024), A New Approach for Identification and Analysis of Urban Heat Island Hotspots, Journal of Settlements and Spatial Planning, 15(2):89-96, <a href="https://geografie.ubbcluj.ro/ccau/jssp/arhiva_2_2024/01JSSP022024.pdf">https://geografie.ubbcluj.ro/ccau/jssp/arhiva_2_2024/01JSSP022024.pdf</a></li> </ul>
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			<p>Sentinel-2 images and LST from Landsat. Seminarul Științific Dimitrie Cantemir, Universitatea Alexandru Ioan Cuta, Iași, 2023.</p> <ul style="list-style-type: none"> <li>• Adina-Eliza CROITORU, Zsolt MAGYARI-SASKA, Csaba HORVATH: A new method to identify urban heat island hotspots, Environment at a Crossroads: SMART Approaches for a Sustainable Future – EcoSmart, Universitatea București, București, 17-18 Noimebrie 2023</li> <li>• Adina-Eliza CROITORU, Zsolt MAGYARISASKA, Csaba HORVATH and Pop Sorin: A new method for automatic identification and ranking the urban heat island hotspots. European Geoscience Union (EGU) General Assembly, Viena, Austria &amp; Online, 14–19 April 2024.</li> </ul>	
<p>Climate-Neutral and Smart Cities: Planning, Piloting, Inspiring/Orase inteligente si neutre climatic: planificare, pilotare, Inspiratie (M100CITIES). Grant Agreement no: 2320/19.07.2024, Funded by SEE 2024-2025</p>	<p>Responsabil partener UBB</p>		<p>Cheval, S., Croitoru, A.-E., Falcescu, V., Franceschinis, C., Glava, C.-C., Iojă, C., Quinti, G., Some, S., Thiene, M., &amp; Vasilakos, N. (2025). Climate Change Education in Europe: Perceptions and Pathways for Transformation. In Book of abstract of EGU General Assembly 2025 Article EGU25-14883</p>	<p>Cheval, S., Croitoru, A.-E., Falcescu, V., Franceschinis, C., Glava, C.-C., Iojă, C., Quinti, G., Some, S., Thiene, M., &amp; Vasilakos, N. (2025). Climate Change Education in Europe: Perceptions and Pathways for Transformation. In Book of abstract of EGU General Assembly 2025 Article EGU25-14883</p>

			<a href="https://doi.org/10.5194/egusphereegu25-14883">https://doi.org/10.5194/egusphereegu25-14883</a>	<a href="https://doi.org/10.5194/egusphereegu25-14883">https://doi.org/10.5194/egusphereegu25-14883</a>
Strengthening the Research Capacities for Extreme Weather Events in Romania (SCEWERO). Funded by the European Commission under Horizon Europe, Grant Agreement: 101159497. 2024-2027.	Director de proiect	Maria-Julia PETRE Andrei VARAN		
Bio-Centric Communities: Navigating Nature, Embracing Ecosystems, Championing Technology (B-CONNECT), Funded by European Urban Initiative, Grant no: EUI02-036. 2024-2027.	Responsabil de partener UBB			
Exploring Climatic Opportunities and Evaluating the Suitability of Romania's Territory for Optimized and Performant Agriculture (ExoCrop), Funded by UEFISCDI. Grant Agreement no: 16PTE/2025, PN-IV-P7-7.1-PTE-2024-0006. 2025-2026.	Responsabil partener UBB	Maria-Julia PETRE	<ul style="list-style-type: none"> <li><i>Agroclimatic Suitability for Exotic Crops in Romania- preliminary results.</i> Autori: Adina-Eliza CROITORU, Valentina STOIAN, Zsolt MAGYARI-SASKA, Stefana MATES, Csaba HORVATH, Aurelia DIACONU, Reta DRĂGHICI, Milica DIMA, Alina PARASCHIV, Stefan NANU, Vlad STOIAN, Sorin VÂTCĂ, Conferinta Internațională Aerul și Apa Componente ale Mediului, Cluj-Napoca – 21 Martie 2025.</li> </ul>	Stoian, VA, Croitoru, AE, Horvath, C, Paraschiv, AN, Diaconu, A, Copaciu, F, Stoian, V, Vâtca, SD (2026), Ecophysiological Assessment of Sweet Potato Flowering and Tuber Development for Yield Optimization and Climate-Adaptive Cultivation in Romania, <i>HORTICULTURAE</i> , 12(1), DOI: 10.3390/horticulturae12010115

			<ul style="list-style-type: none"> <li>• <i>Climatic suitability of Ipomoea batatas [L.] Lam in South-eastern Europe under climate change conditions. Case study: Romania.</i> Autori: Adina-Eliza Croitoru, Zsolt Magyari-Sáska, Valentina-Ancuta Stoian, Aurelia Diaconu, Alina Paraschiv, Vlad Stoian, Csaba Horváth. Conferința internațională Present Environment and Sustainable Development, Iasi – 13 Iunie 2025</li> <li>• <i>Exocrop Project Outcome an Agronomic Perspective on Sweet Potatoes, Cowpea and Groundnut.</i> Autori: Stoian Vlad, Vâtcă Sorin, Stoian Valentina, Croitoru Adina-Eliza, Horváth Csaba, Magyari-Sáska Zsolt, Diaconu Aurelia, Dima Milica, Drăghici Reta, Nanu Ștefan, Paraschiv Alina. 2nd International Scientific Conference “Agricultural Challenges to Climate Change” Osijek, 16–19 September 2025.</li> <li>• <i>Behaviour of new cowpea lines in sandy soil conditions in southern Oltenia.</i> Autori: Reta Drăghici, Milica Dima, Ștefan Nanu, Aurelia Diaconu, Alina-Nicoleta Paraschiv*, Iulian Modan, Ionuț Antoniu Gherlan, Cornel Netcu. The</li> </ul>	
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			<p>21st Annual meeting "Sustainable Agriculture–Agriculture of the Future", 20-22 November 2025, Craiova, Romania</p> <ul style="list-style-type: none"> <li>• <i>Determination of agronomic characteristics of some peanut genotypes used in the breeding process.</i> Autori: Milica Dima, Reta Drăghici, Aurelia Diaconu, Alina-Nicoleta Paraschiv, Florentina Netcu, Irina Titirică, Cornel Netcu, Oana Mîrzan. The 21st Annual meeting "Sustainable Agriculture–Agriculture of the Future", 20-22 November 2025, Craiova, Romania.</li> </ul>	
<p><i>Pathways to Resilience for Teleorman County (P2R-TR) (sub-grant from Pathways to Resilience),</i> Funded by the European Commission under Horizon Europe, Grant Agreement: 101093942. 2026-2027.</p>	Director de proiect	Victor Malairau Vladut Falcescu		
<p><i>Blueprint for Net-Zero Apartment-block Neighborhoods - H2020, Research and Innovation Programme, CINEA-H2020-NZC101036519-PCP- Cluj-Napoca.</i></p>	Membru in proiect			

<i>Funded by the European Union. Grant Agreement no. 101036519. 2023-2025</i>				
<i>Mecra-Cluj; Subgrant-Climate Risk and Vulnerability Assessment Framework and Toolbox (CLIMAAX) – HE-RIA. Funded by the European Union under Grant Agreement No. 101093864, 2023-2027.</i>	Membru in proiect			