Future Living environments and Urban eXperiments Laboratory

Contact details

Name	Future Living environments and Urban eXperiments Laboratory	
Acronym	FLUX Lab	lie dir
Logo	FLUX LAB	
Site	https://research.utcluj.ro/index.php/architecture.html	
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Areas of expertise

Research and study in the field of:

- Future technologies connected with architecture, urban planning and landscape design
- Transdisciplinary relations between built environment, culture and technology
- Ethics, Aesthetics of care, Ecology and Sustainability in relation with the built environment and the impact of new technologies
- Educational methodologies related to future technologies used in architectural, urban and landscape design.

Team

Assoc. Prof. Ph.D. Arch. Silivan V. MOLDOVAN - director

Assoc. Prof. Ph.D. Arch. Ioana M. MOLDOVAN

Prof. Ph.D. Ing. Cristina CÂMPIAN Assoc. Prof. Ph.D. Ing. Nicoleta M. ILIEŞ Assoc. Prof. Ph.D. Arch. Andreea MILEA

External Collaborators: Arch. Ioana CECĂLĂȘAN,

Representative projects

- EpisTeaM Epistemology in Science, Technology, Engineering, Arts and Maths 101129655 GAP-101129655 MSCA SE Marie Sklodowska-Curie Staff Exchanges 2022, HORIZON-MSCA-2022-SE-01, HORIZON-TMA-MSCA-SE,
- EpiCo Epistemology and Ecology in Technological Education, Erasmus+ KA220, ID: 2023-1RO01-KA220-HED-000155474,
- AesThiCo: Aesthetics and Ecology in Technological Education, Erasmus+ and European Solidary Corps/ Cooperation partnerships in higher education KA220-HED, ID: KA220-HED-6C8E852E,
- EthiCo: Ethics and Ecology in Technological Education, Erasmus+ and European Strategic partnership for higher education KA203, ID: 2020-1-IE02-KA203-000762,

Significant results

Books:

Moldovan MS, Moldovan IM, Moldovan SV – Clădiri înalte. Evoluţie. Implementare., UTPRESS, Cluj-Napoca, 2012

Articles in ISI rated journals:

- Moldovan IM, Moldovan SV, Ilieş NM Invisible architecture Sustainable underground architecture, International Multidisciplinary Scientific GeoConference- SGEM, Nano, Bio and Green - Technologies for a Sustainable Future ConferenceProceedings, SGEM 2016, VOL III, 2016, p.555-560, ISSN: 1314-2704
- Moldovan IM, Moldovan SV, Ilies NM Suburbia From transition architecture to contemporary residential developments in Romania, International Multidisciplinary Scientific GeoConference-SGEM, Nano, Bio and Green - Technologies for a Sustainable Future Conference Proceedings, SGEM 2016, VOL III, 2016, p.639-646, ISSN: 1314-2704
- Moldovan IM, Moldovan SV, Ilieş NM Rural Romanian housing degradation effect of land restitution and unemployment rates, Agriculture and Agricultural Science Procedia - 5th International Conference - Agriculture for Life, Life for Agriculture, 2016, p.438-443, ISSN: 2210-7843
- Moldovan IM, Ilieş NM, Moldovan SV The reinvention of the traditional home "bordei" and its impact on the rural landscape and environment, Agriculture and Agricultural Science Procedia - Conference Agriculture for Life, Life for Agriculture, 2015, p.479-485, ISSN: 2210-7843
- Moldovan IM, Moldovan SV, Ilieş NM Towards sustainable architecture: Underground and semi-buried houses versus
 conventional houses, International Multidisciplinary Scientific GeoConference-SGEM Nano, Bio and Green Technologies for
 a Sustainable Future, Vol II (SGEM 2015), p.607-613, ISSN: 1314-2704
- Moldovan IM, Moldovan SV, Ilieş NM Earth-sheltered and underground homes as alternatives for the unfortunate post-communist residential developments, International Multidisciplinary Scientific GeoConference-SGEM Nano, Bio and Green Technologies for a Sustainable Future, Vol II (SGEM 2015), p.421-428, ISSN: 1314-2704
- Ilieş NM, Moldovan IM, Moldovan SV Improving the stability of slopes with the aid of underground houses. Procedia
 Technology 8th International Conference Interdisciplinarity in Engineering, INTER-ENG 2014. p.363-370, ISSN: 2212-0173
- Moldovan IM, Moldovan SV, Structural systems influence the aesthetics of skyscrapers, Journal of Applied Engineering Sciences, University of Oradea Publishing House, Volume 1 (14), Issue 4/2011 Oradea, ROMANIA, p.117-122, ISSN 2247 – 3769
- Ilies NM, Fărcaş VS, Coţ RV, Moldovan IM The control of natural disaster caused by slopes sliding by means of stepped buildings, Procedia Technology - 9TH International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, p.391-398, ISSN: 2212-0173 (3 citations)

Presentations:

- Exploring the Aesthetics of Care in Contemporary Architectural Design. Mid-term international seminar Exploring the Aesthetics of Care, AesThiCo, 09.02.2024.
- Aesthetics of Care. Controversies in text-to-image models. "Human a measure of all things? The challenge of the post-industrial information society" Technical University of Sofia, Department of Law and Humanities at the Faculty of Management 17–18.10.2023, Sofia, Bulgaria.
- Digital Tools interfering with the Design of the Built Environment 18th DRC (Danube Rectors' Conference) Summer School on Regional Cooperation "Transformation of post-war Europe: Challenging universities and research in the Danube Region" 16–22.07.2023, Cluj-Napoca, Romania.
- 'Care' understood by AI. Biases and controversies 18th DRC (Danube Rectors' Conference) Summer School on Regional Cooperation "Transformation of post-war Europe: Challenging universities and research in the Danube Region" 16–22.07.2023, Cluj-Napoca, Romania.
- Perception of Aesthetics of Care. Text-to-image AI generation. The 2nd European Culture and Technology Lab+ Annual Conference. Techne logos, Care and the (Neg) Anthropocene. 18 - 20 January 2023, Dublin, Ireland.
 Rosia Montana. The journey of 'care' of an endangered site. The 2nd European Culture and Technology Lab+ Annual Conference. Techne logos, Care and the (Neg) Anthropocene. 18 - 20 January 2023, Dublin, Ireland.

Significant results:

- Intensive Study Program "Ethics and ecology in technological education." Student training Module / EthiCo project Febr. 2021
 Universidad Politecnica de Cartagena, Spain hybrid version
- Intensive Study Program "Ethics and ecology in technological education." Teacher training Module / EthiCo project March.
 2022 Technical University of Cluj Napoca, Romanina
- Intensive Study Program "Aesthetics (of care) and ecology in technological education." Teacher training Module / Aesthico project May. 2023 Universidad Politecnica de Cartagena, Spain
- Intensive Study Program "Ethics and ecology in technological education." Student training Module / EthiCo project July. 2023
 Technical University of Troyes, France
- Multiplier event Conference and workshop Ethico project Ethics and ecology in technological education, August 2023,
 Technical University od Sofia, Sofia, Bulgaria
- Intensive Study Program "Aesthetics (of care) and ecology in technological education." Student training Module / Aesthico project April. 2024 Cyprus Technical University, Limassol

The offer addressed to the economic environment

Research & development	Intersections and interactions between architecture, urbanism, landscape design, art, culture, engineering and technology. Flux Lab can explore the impact of technology, automation and technological advancement on the society and analyse future possibilities of evolution. Exploration and understanding of the perceived reality trough digital tools are another field of interest for the members of the lab.	
Consulting	Flux lab can provide consultancy and support regarding an ethical and ecological approach in technology development or usage connected to the fields of architecture, urbanism and landscape design. New approaches and methods in educational process are a topic that can be also explored within the lab.	
Training	The research structure has experience and skills to organise transdisciplinary workshops, Intensive study programs (ISP), Blended intensive programs (BIP), summer / winter schools, specialised lectures.	