



СУМСЬКИЙ ДЕРЖАВНИЙ  
ПЕДАГОГІЧНИЙ УНІВЕРСИТЕТ  
ІМЕНІ А.С. МАКАРЕНКА

**Sumy State Pedagogical  
University named  
after A. S. Makarenko**

**ISMA**  
ANNO 1994

**ISMA University  
of Applied Sciences**

**EARTH SCIENCES, GEOGRAPHY,  
AND CARTOGRAPHY:  
REGIONAL STUDIES AND SPATIAL ANALYSIS**

**Scientific monograph**



IZDEVNIECĪBA  
**BALTĪJA**  
PUBLISHING  
2025

*Recommended for printing and distribution via Internet  
by the Academic Council of Baltic Research Institute  
of Transformation Economic Area Problems according  
to the Minutes № 8 dated 26.08.2025*

#### **EDITORIAL BOARD:**

**Djakons Romans** – Dr.sc.ing., Professor, Academician, Chairman of the Board of ISMA University of Applied Sciences;

**Kornus Anatolii Oleksandrovyh** – Candidate of Geographical Sciences, Associate Professor, Associate Professor at the Department of General and Regional Geography, Sumy State Pedagogical University named after A. S. Makarenko;

**Danylychenko Olena Serhiivna** – Candidate of Geographical Sciences, Associate Professor, Associate Professor at the Department of General and Regional Geography, Sumy State Pedagogical University named after A. S. Makarenko;

**Kornus Olesia Hryhorivna** – Candidate of Geographical Sciences, Associate Professor, Head of the Department of General and Regional Geography, Sumy State Pedagogical University named after A. S. Makarenko.

#### **REVIEWERS:**

**Korol Olena Mykolaivna** – Candidate of Pedagogical Sciences, Associate Professor, Associate Professor at the Department of General and Regional Geography Sumy State Pedagogical University named after A. S. Makarenko;

**Lutsenko Serhii Viktorovych** – Doctor of Philosophy, Senior Lecturer at the Department of General and Regional Geography, Sumy State Pedagogical University named after A. S. Makarenko;

**Ivanov Yevhen Anatoliyovych** – Doctor of Geographical Sciences, Professor, Head of the Department of Constructive Geography and Cartography Ivan Franko National University of Lviv.

**Earth Sciences, Geography, and Cartography: Regional Studies and Spatial analysis:** Scientific monograph. Riga, Latvia : “Baltija Publishing”, 2025. 324 p.

ISBN 978-9934-26-596-9

© ISMA University of Applied Sciences, 2025  
© Sumy State Pedagogical University named after  
A. S. Makarenko, 2025