



80<sup>th</sup> International Scientific  
Conference of the  
University of Latvia 2022

Diferenču vienādojumi un  
diferenciālvienādojumi

Difference equations and differential  
equations

Thursday, 24 February 2022, 4.30 PM, online

## Programma/Programme

16:30-16:35	<b>Opening</b>	
<b>Vadītājs/Chair: Prof. Uldis Strautiņš</b>		
16.35–16.55	<b>Asst. Prof. Michael A. Radin</b> <i>Rochester Institute of Technology</i>	<b>Dynamics of a Discrete Population Model for Extinction and Sustainability of Ancient Civilizations</b>
16.55–17.15	<b>Prof. Inese Bula</b> <i>University of Latvia</i>	<b>Gabaliem lineāru diferenču vienādojumu sistēma ar daudziem periodiskiem atrisinājumiem</b> <b>System of Piecewise Linear Difference Equations with Many Periodic Solutions</b>
17.15–17.35	<b>Shraddha R. Christian</b> <i>University of Latvia</i>	<b>Hyers-Ulam stability of nonstandard Volterra integral equation on unbounded above time scales</b>
17.35–17.55	<b>Māris G. Dzenis</b> <i>University of Latvia</i>	<b>Thermal Decomposition of Biomass as a Porous Medium</b>
17.55–18.15	<b>Filips Kozirevs</b> <i>University of Latvia</i>	<b>Datu virzīti algoritmi lokalizēta viļņa reģiona noteikšanai vienas dimensijas kristāla režģa modelī</b> <b>Data-driven algorithms for localized wave region detection in 1D crystal lattice model</b>
18.15–18.35	<b>Dāvis Kalvāns</b> <i>University of Latvia</i>	<b>Hamiltona dinamikas mācīšanās ar regularizētiem simplektiskiem neironu tīkliem</b> <b>Regularized symplectic neural networks form learning Hamiltonian dynamics</b>
18.35–18.55	<b>Laura Leja</b> <i>University of Latvia</i>	<b>Numerical Method for Wood Pellet Gasification Simulation</b>
18.55–19.00	<b>Noslēgums</b> <b>Conclusions</b>	