

Publication List

PUBLICATIONS IN IMPACT FACTOR JOURNALS

- J. Minarčík, M. Beneš: Minimal surface generating flow for space curves of non vanishing torsion. *Homology, Discrete and Continuous Dynamical Systems - Series B*, 27: 6605–6617, 2022, doi: 10.3934/dcdsb.2022011.
- J. Minarčík and M. Beneš: Nondegenerate Homotopy and Geometric Flows. *Homology, Homotopy and Applications*, 24: 255–264, 2022, doi: 10.4310/HHA.2022.v24.n2.a12.
- J. Minarčík, M. Beneš: Long-term behavior of curve shortening flow in \mathbb{R}^3 . *SIAM Journal on Mathematical Analysis*, 52(2):1221–1231, 2020, doi: 10.1137/19M1248522.
- J. Minarčík, M. Kimura, M. Beneš: Comparing motion of curves and hypersurfaces in \mathbb{R}^m . *Discrete & Continuous Dynamical Systems - B*, 24(9):4815–4826, 2019, doi: 10.3934/dcdsb.2019032.

PREPRINTS

- J. Minarčík, M. Beneš: Trajectory Surfaces of Framed Curvature Flow, 2023.

CONFERENCE CONTRIBUTIONS

- International workshop
BIGW: Geometric flows and related topics, Inverness, Scotland, July, 2023.
 - Lecture : *Ricci flow invariant curvature conditions*
- International workshop
Tangled in Knot Theory, ICERM, The Institute for Computational and Experimental Research in Mathematics, Brown University, Providence, United States, May, 2023.
 - Oral presentation : *Minimal Surface Generating Flow*

- International workshop
Workshop on scientific computing 2023, Děčín, May, 2023.
 - Oral presentation : *Trajectory Surfaces of Framed Curvature Flow*
- International seminar
Discussion meeting on zero mean curvature surfaces in the Lorentz-Minkowski space and related areas, online, Shiv Nadar University NCR Delhi, October, 2022.
 - Oral presentation : *Minimal Surface Generating Flow*
- International seminar
Interfaces: Modeling, Analysis, Numerics, Oberwolfach Research Institute for Mathematics, Oberwolfach, Germany, November 2022.
 - Oral presentation : *Framed Curvature Flow*
- International conference
Topological Methods in Mathematical Physics, EMFCSC: International School of Mathematics, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy, September 2022.
 - Oral presentation : *Minimal Surface Generating Flow*
- International workshop
Workshop on scientific computing 2022, Děčín, December, 2022.
 - Oral presentation : *Discrete Torsion*
- International conference
Calculus of Variations in Probability and Geometry, UCLA, Institute for Pure & Applied Mathematics, Los Angeles, United States, February, 2022.
 - Poster presentation : *Minimal Surface Generating Flow*
- International seminar
Combinatorial and Geometric Knot Theory, Oberwolfach Research Institute for Mathematics, Oberwolfach, Germany, November 2021.
 - Oral presentation : *Locally Convex Knots*
- International workshop
Young Geometers Meeting, University of Copenhagen, Online, April, 2021.
 - Oral presentation : *Minimal surface generating flow for space curves of nonvanishing torsion*
- International workshop
Winterschool on Analysis and Applied Mathematics, University of Münster, Online, February, 2021.
 - Poster : *Minimal surface generating flow for space curves of non-vanishing torsion*

- International conference
Czech-Japanese Seminar in Applied Mathematics, Online, January, 2021.
 - Oral presentation : *Minimal surface generating flow for space curves of nonvanishing torsion*
- International workshop
Workshop on scientific computing 2020, Online, December, 2020.
 - Oral presentation : *Minimal surface generating flow for space curves of nonvanishing torsion*
- International conference
BJUT Conference - Knotted Fields and Applications, Beijing, China, September, 2019.
 - Oral presentation : *Minimal surface generating flow for space curves of nonvanishing torsion*
 - Poster : *Properties of codimension-two curve shortening flow*
- International workshop
Biology, Analysis, Geometry, Energies, Links: A Program on Low-dimensional Topology, Geometry, and Applications, Minneapolis, United States, June, 2019.
 - Poster : *Properties of codimension-two curve shortening flow*
- Seminar
Nečas Seminar on Continuum Mechanics, MFF UK, Prague, Czech Republic, February, 2019.
 - Oral presentation : *Properties of codimension-two curve shortening flow*
- International conference
Czech-Japanese Seminar in Applied Mathematics 2018 (CJS2018), Noto, Japan, July, 2018.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International conference
Czech-Japanese Seminar in Applied Mathematics 2018 (CJS2018), Noto, Japan, July, 2018.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International workshop
Workshop on scientific computing 2018, Děčín, Czech Republic, June, 2018.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*

- International workshop
7th conference of the Visual Computing Competence Center, Havlíčkův Brod, Czech Republic, November, 2017.
 - Oral presentation : *Automatic identification of trains from images*
- International conference
Future Port Prague 2017, Prague, Czech Republic, September, 2017.
 - Oral presentation : *AI in machine vision*
- International conference
International Symposium on Computational Science 2017, Kanazawa, Japan, July, 2017.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International workshop
14th Workshop on Mathematical Analysis for Nonlinear Phenomena, Kanazawa, Japan, July, 2017.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International workshop
Workshop on scientific computing 2018, Děčín, Czech Republic, June, 2017.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International workshop
Workshop on scientific computing 2017, Děčín, Czech Republic, June, 2017.
 - Oral presentation : *Curvature driven flow of space curves in normal and binormal direction*
- International workshop
Workshop on scientific computing 2016, Děčín, Czech Republic, June, 2016.
 - Oral presentation : *Applications of planar and space curve evolution*
- International workshop
Workshop on scientific computing 2015, Děčín, Czech Republic, June, 2015.
 - Oral presentation : *Numerical solution of a curvature driven flow of plane and space curves and its applications*