

Ladislav Peška - Curriculum Vitae

Personal information

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Current position **Assistant Professor**
Department of Software Engineering
Charles University, Prague, Czech Republic
Research interests Recommender systems, User Preferences, Information retrieval

Professional experience

since 2016 **Assistant Professor** at Dept. of Software Engineering, Charles University
09/2023-12/2023 **Research stay (sabbatical) at Dept. Of Advanced Computing Sciences, Maastricht University.** Collaboration with Dr. Francesco Barile and prof. Nava Tintarev
03/2019–06/2019 **Research stay at Data Science and Engineering Department, ELTE, Budapest**
Collaboration with the team of Dr. Tomas Horvath
01/2016–04/2016 **Research stay at BIC TTK, Hungarian Academy of Science**
09/2016–12/2016 Under the supervision of prof. Zoltan Vidnyianszky and Dr. Krisztian Buza
Supported by Hungarian State Stipend grant no. 119058

Education

2011–2016 **Ph.D. in Computer Science**, Faculty of Mathematics and Physics, Charles University, Prague
Thesis title: Recommender systems - models, methods, experiments
Supervisor: prof. RNDr. Peter Vojtas, DrSc.
2004–2011 **Bachelor and Master in Computer Science**
Faculty of Mathematics and Physics, Charles University, Prague

Research projects

since 2022 **Team member, Czech Science Foundation (GAČR) 22-21696S project**
Deep Visual Representations of Unstructured Data
since 2022 **Supervisor, Charles University Grant Agency (GAUK) 188322 project**
Aggregations in group recommender systems
2019-2021 **Team member, Czech Science Foundation (GAČR) 19-22071Y project**
Flexible models for known-item search in large video collections
2017-2019 **Team member, Czech Science Foundation (GAČR) 17-22224S project**
User Preference Analytics in Multimedia Exploration Models
2017-2019 **Team member, Charles University Grant Agency (GAUK) 232217 project**
Lineup identification using machine learning
2018 **Team member, Technology Agency of the Czech Republic (TAČR) TH03010276 project**
The system for advanced analytics of large connected data based on similarity modeling
2013-2015 **Principal Investigator, Charles University Grant Agency (GAUK) 126313 project**
Developing of User Preferences over Time

Service

Organizing IUI Track Chair @ UMAP 2024, ORSUM@RecSys 2022-23, GMAP@UMAP 2023-24, W3ChaT@ITAT 2017-18, DMUPW@ITAT 2013-14
PC member CIKM 2023-24, HCAI4U@CHIItaly 2023, IRonGraphs@ECIR 2023, ORSUM@RecSys 2020-21, MMM 2020-24
Reviewer IEEE Access, IEEE Transactions on Computational Social Systems, ACM Transactions on Recommender Systems, User Modeling and User-Adapted Interaction, Knowledge and Information Systems, Applied Soft Computing Journal, Information Sciences etc.
Others Hypertext and Hypermedia 2017 publicity chair
Students supervision Currently supervising: 1 Ph.D., 3 MSc., 4 Bc., and 1 individual SW project
Graduated: 11 MSc., 7 Bc., and 11 student SW projects

Publications

Overall, Ladislav Peska is a co-author of over 90 publications (88 indexed in the SCOPUS database of Elsevier). Among them are 14 impacted journals and 3 CORE A*, 11 CORE A and 23 CORE B conference publications. The total number of citations is 776 in Google Scholar (h-index: 15) and 502 in SCOPUS (h-index: 11) as of April 2, 2024.

Selected Publications

2022-2024

- P Dokoupil, **L Peška**, L Boratto: SM-RS: Single- and Multi-objective Recommendations with Contextual Impressions and Beyond-Accuracy Propensity Scores, Accepted at SIGIR 2024 [CORE A*]
- P Dokoupil, L Boratto, **L Peška**: User Perceptions of Diversity in Recommender Systems, Accepted at UMAP 2024 [CORE B]
- T Skopal, **L Peška**, D Hoksza, I Sixtová, D Bernhauer: Visualizations for universal deep-feature representations: survey and taxonomy, *Knowl Inf Syst* 66 (2), 811-840 (2024); IF 2.7
- P Dokoupil, **L Peška**, L Boratto: Rows or Columns? Minimizing Presentation Bias When Comparing Multiple Recommender Systems, SIGIR 2023; [CORE A*]
- J Lokoč, ..., **L Peška**, ..., S Vrochidis: Interactive video retrieval in the age of effective joint embedding deep models: lessons from the 11th VBS, *Multimedia Systems* 29 (6), 3481-3504 (2023); IF 3.9
- P Dokoupil, **L Peška**: Easystudy: Framework for easy deployment of user studies on recommender systems, RecSys 2023 [CORE A]
- M Spišák, R Bartyzal, A Hoskovec, **L Peška**, M Tůma: Scalable approximate nonsymmetric autoencoder for collaborative filtering, RecSys 2023 [CORE A] **Best Short Paper Runner-up**
- P Dokoupil, **L Peška**, L Boratto: Looks Can Be Deceiving: Linking User-Item Interactions and User's Propensity Towards Multi-Objective Recommendations, RecSys 2023 [CORE A]
- R Savcinsky, **L Peska**: SpotifyExplained: User-centric Mobile Application for Music Exploration, UMAP 2023 [CORE B]
- L Peška**, M Vomlelová, P Veselý, V Škrhák, J Lokoč.: Evaluating a Bayesian-like relevance feedback model with text-to-image search initialization, *Multimedia Tools and Applications* 82 (15), 22305-22341 (2023); IF 3.16
- S Balcar, V Skrhak, **L Peska**: Rank-sensitive proportional aggregations in dynamic recommendation scenarios, *User Modeling and User-Adapted Interaction* 32, 685-746 (2022); IF 4.23
- L Peska**, P Dokoupil: Towards Results-level Proportionality for Multi-objective Recommender Systems, SIGIR 2022; [CORE A*]
- F Barile, A Delic, **L Peska**: Tutorial on Offline Evaluation for Group Recommender Systems, RecSys 2022 [CORE A]

2021 and earlier

- Rossetto L., Gasser R.,..., **Peška L.**,..., Lokoc J.: On the User-centric Comparative Remote Evaluation of Interactive Video Search Systems, *IEEE Multimedia* 28, 18-28 (2021); IF 5.633
- Grosup T., **Peska L.**, Skopal T.: On Augmenting Database Schemas by Latent Visual Attribute, *Knowl Inf Syst* 63, 2277-2312 (2021); IF 2.822
- Malecek L., **Peška L.**: Fairness-preserving Group Recommendations With User Weighting, UMAP 2021, ACM [CORE B]
- Peska L.**, Misikir Tashu, T., Horváth, T.: Swarm intelligence techniques in recommender systems - A review of recent research. *Swarm Evol. Comput.*, 2019, 48: pp. 201-219 (2019); IF 6.330
- Peška L.**, Balcar S.: Fuzzy D'Hondt's Algorithm for On-line Recommendations Aggregation. 2nd Workshop on Online Recommender Systems and User Modeling, PMLR, 2019, 2-11; **Best Paper Award**
- Peška L.**, Hybrid recommendations by content-aligned Bayesian personalized ranking. *New Review of Hypermedia and Multimedia*, 2018, 24 (2), 88-109 (2018); IF 0.867
- Peška L.**, Buza, K., Koller, J.: Drug-target interaction prediction: A Bayesian ranking approach, *Computer Methods and Programs in Biomedicine*, Vol. 152, Num. 12, pp. 15-21 (2017); IF 3.424
- Buza K., **Peška L.**: Drug-target interaction prediction with Bipartite Local Models and hubness-aware regression, *Neurocomputing*, Vol. 260, Num. 10, pp. 284-293 (2017); IF 4.072
- Peška L.**, Vojtáš P.: Using Implicit Preference Relations to Improve Recommender Systems, *Journal on Data Semantics*, Vol. 6, Num. 1, pp. 15-30 (2017); IF 1.730