

Petr Holub

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

903
citations

623188

14
h-index

525886

27
g-index

62
all docs

62
docs citations

62
times ranked

1966
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | GA4GH: International policies and standards for data sharing across genomic research and healthcare. Cell Genomics, 2021, 1, 100029. | 3.0 | 94 |
| 2 | Four simple recommendations to encourage best practices in research software. F1000Research, 2017, 6, 876. | 0.8 | 88 |
| 3 | Enhancing <i>Reuse</i> of Data and Biological Material in Medical Research: From FAIR to FAIR-Health. Biopreservation and Biobanking, 2018, 16, 97-105. | 0.5 | 71 |
| 4 | Leveraging European infrastructures to access 1 million human genomes by 2022. Nature Reviews Genetics, 2019, 20, 693-701. | 7.7 | 69 |
| 5 | BBMRI-ERIC Directory: 515 Biobanks with Over 60 Million Biological Samples. Biopreservation and Biobanking, 2016, 14, 559-562. | 0.5 | 68 |
| 6 | Toward Global Biobank Integration by Implementation of the Minimum Information About Biobank Data Sharing (MIABIS 2.0 Core). Biopreservation and Biobanking, 2016, 14, 298-306. | 0.5 | 66 |
| 7 | PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, . | 3.3 | 60 |
| 8 | BBMRI-ERIC: the novel gateway to biobanks. Bundesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz, 2016, 59, 379-384. | 7.2 | 37 |
| 9 | High-definition multimedia for multiparty low-latency interactive communication. Future Generation Computer Systems, 2006, 22, 856-861. | 4.9 | 32 |
| 10 | The Data Use Ontology to streamline responsible access to human biomedical datasets. Cell Genomics, 2021, 1, 100028. | 3.0 | 31 |
| 11 | Distributed and collaborative visualization of large data sets using high-speed networks. Future Generation Computer Systems, 2006, 22, 1004-1010. | 4.9 | 27 |
| 12 | GPU-accelerated DXT and JPEG compression schemes for low-latency network transmissions of HD, 2K, and 4K video. Future Generation Computer Systems, 2013, 29, 1991-2006. | 4.9 | 25 |
| 13 | Extending the Minimum Information About Biobank Data Sharing Terminology to Describe Samples, Sample Donors, and Events. Biopreservation and Biobanking, 2020, 18, 155-164. | 0.5 | 25 |
| 14 | Bonding and aromaticity of cyclic phosphazenes viewed as interaction of Dnh fragments. Computational and Theoretical Chemistry, 2007, 820, 148-158. | 1.5 | 19 |
| 15 | BBMRI-ERIC's contributions to research and knowledge exchange on COVID-19. European Journal of Human Genetics, 2020, 28, 728-731. | 1.4 | 17 |
| 16 | UltraGrid. , 2012, , . | | 16 |
| 17 | Efficient JPEG2000 EBCOT Context Modeling for Massively Parallel Architectures. , 2011, , . | | 13 |
| 18 | Pan-European Data Harmonization for Biobanks in ADOPT BBMRI-ERIC. Applied Clinical Informatics, 2019, 10, 679-692. | 0.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Conception and Implementation of an Austrian Biobank Directory Integration Framework. Biopreservation and Biobanking, 2017, 15, 332-340. | 0.5 | 11 |
| 20 | User-Empowered Programmable Network Support for Collaborative Environment. Lecture Notes in Computer Science, 2004, , 367-376. | 1.0 | 11 |
| 21 | Uncompressed HD video for collaborative teaching — an experiment. , 2007, , . | | 9 |
| 22 | Data transfer planning with tree placement for collaborative environments. Constraints, 2011, 16, 283-316. | 0.4 | 8 |
| 23 | Low GPU Occupancy Approach to Fast Arithmetic Coding in JPEG2000. Lecture Notes in Computer Science, 2012, , 136-145. | 1.0 | 8 |
| 24 | Grid Infrastructure Monitoring as Reliable Information Service. Lecture Notes in Computer Science, 2004, , 220-229. | 1.0 | 7 |
| 25 | A Decentralized IT Architecture for Locating and Negotiating Access to Biobank Samples. Studies in Health Technology and Informatics, 2017, 243, 75-79. | 0.2 | 7 |
| 26 | Expanding the BBMRI-ERIC Directory into a Global Catalogue of COVID-19â€™Ready Collections: A Joint Initiative of BBMRI-ERIC and ISBER. Biopreservation and Biobanking, 2020, 18, 479-480. | 0.5 | 5 |
| 27 | CoUniverse: Framework for Building Self-organizing Collaborative Environments Using Extreme-Bandwidth Media Applications. Lecture Notes in Computer Science, 2009, , 339-351. | 1.0 | 5 |
| 28 | State of FAIRness in ESFRI Projects. Data Intelligence, 2020, 2, 230-237. | 0.8 | 5 |
| 29 | Media Streams Planning with Transcoding. , 2013, , . | | 4 |
| 30 | GColl. , 2010, , . | | 3 |
| 31 | GPU-specific reformulations of image compression algorithms. Proceedings of SPIE, 2012, , . | 0.8 | 3 |
| 32 | Toward natural multi-user interaction in advanced collaborative display environments. Future Generation Computer Systems, 2016, 54, 313-325. | 4.9 | 3 |
| 33 | BiobankUniverse: automatic matchmaking between datasets for biobank data discovery and integration. Bioinformatics, 2017, 33, 3627-3634. | 1.8 | 3 |
| 34 | ISO 23494: Biotechnology â€™ Provenance Information Model for Biological Specimen And Data. Lecture Notes in Computer Science, 2021, , 222-225. | 1.0 | 3 |
| 35 | VirtCloud: Virtualising Network for Grid Environments First Experiences. , 2009, , . | | 2 |
| 36 | CoUniverse: Framework for Building Self-Organizing Collaborative Environments Using Extreme-Bandwidth Media Applications. , 2009, , . | | 2 |

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|----|---|-----|-----------|
| 37 | Design and implementation of a production dynamically configurable testbed. , 2010, , . | | 2 |
| 38 | High-performance forward error correction: Enabling multi-gigabit flows and beyond on commodity GPU and CPU hardware in presence of packet loss. Future Generation Computer Systems, 2016, 54, 326-335. | 4.9 | 2 |
| 39 | BBMRI-ERIC Negotiator: Implementing Efficient Access to Biobanks. Biopreservation and Biobanking, 2021, 19, 414-421. | 0.5 | 2 |
| 40 | Automated annotations of epithelial cells and stroma in <sc>hematoxylinâ€“eosin</sc>-stained wholeâ€“slide images using cytokeratin reâ€“staining. Journal of Pathology: Clinical Research, 2022, 8, 129-142. | 1.3 | 2 |
| 41 | Secure and pervasive collaborative platform for medical applications. Studies in Health Technology and Informatics, 2007, 126, 229-38. | 0.2 | 2 |
| 42 | Transparent security for collaborative environments. , 2007, , . | | 1 |
| 43 | CoUniverse Orchestrated Collaborative Environments with Dynamic Circuit Networks. , 2010, , . | | 1 |
| 44 | Exploring trust in group-to-group video-conferencing. , 2011, , . | | 1 |
| 45 | Local Search Heuristics for Media Streams Planning Problem. , 2013, , . | | 1 |
| 46 | Media Streams Planning with Uncertain Link Capacities. , 2014, , . | | 1 |
| 47 | Distributed active element in 10 Gbps network. , 2007, , . | | 0 |
| 48 | CColl group-to-group videoconferencing system: design and first experiences. , 2009, , . | | 0 |
| 49 | jSon: Network of Active Elements with Peer-to-Peer Control Plane. , 2009, , . | | 0 |
| 50 | Local Search Heuristics for Media Streams Planning with Transcoding. , 2014, , . | | 0 |
| 51 | Dynamic reconfiguration in multigroup multicast routing under uncertainty. Journal of Heuristics, 2018, 24, 395-423. | 1.1 | 0 |
| 52 | Correction to: ISO 23494: Biotechnology â€“ Provenance Information Model for Biological Specimen And Data. Lecture Notes in Computer Science, 2021, , C1-C1. | 1.0 | 0 |
| 53 | Virtual Multicast. , 0, , . | | 0 |
| 54 | Exploring Collaboration in Group-to-Group Videoconferencing. , 2012, , 229-244. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Towards User-Aware Multi-touch Interaction Layer for Group Collaborative Systems. Lecture Notes in Computer Science, 2013, , 200-212. | 1.0 | 0 |