

ORIGINAL PEER-REVIEWED JOURNAL CONTRIBUTIONS

- Girardi, D., J. Kng, R. Kleiser, M. Sonnberger, D. Csillag, J. Trenkler, and A. Holzinger (2016). “Interactive knowledge discovery with the doctor-in-the-loop: a practical example of cerebral aneurysms research”. In: *Brain Informatics* 3.3, pp. 133–143. DOI: 10.1007/s40708-016-0038-2.
- Holzinger, A. (2016a). “Interactive Machine Learning for Health Informatics: When do we need the human-in-the-loop?” In: *Brain Informatics* 3.2, pp. 119–131. DOI: 10.1007/s40708-016-0042-6.
- Holzinger, A. (2016b). “Interactive Machine Learning (iML)”. In: *Informatik Spektrum* 39.1, pp. 64–68. DOI: 10.1007/s00287-015-0941-6.
- Hund, M., D. Boehm, W. Sturm, M. Sedlmair, T. Schreck, T. Ullrich, D. A. Keim, L. Majnaric, and A. Holzinger (2016). “Visual analytics for concept exploration in subspaces of patient groups: Making sense of complex datasets with the Doctor-in-the-loop”. In: *Brain Informatics* 3.4, pp. 233–247. DOI: 10.1007/s40708-016-0043-5.
- Jeanquartier, F., C. Jean-Quartier, D. Cemernek, and A. Holzinger (2016a). “In silico modeling for tumor growth visualization”. In: *BMC Systems Biology* 10.1, pp. 1–15. DOI: 10.1186/s12918-016-0318-8.
- Kieseberg, P., E. Weippl, and A. Holzinger (2016a). “Trust for the Doctor-in-the-Loop”. In: *European Research Consortium for Informatics and Mathematics (ERCIM) News: Tackling Big Data in the Life Sciences* 104.1, pp. 32–33.
- Kieseberg, P., E. Weippl, and A. Holzinger (2016b). “Trust for the Doctor-in-the-Loop”. In: *European Research Consortium for Informatics and Mathematics (ERCIM) News: Tackling Big Data in the Life Sciences* 104.1, pp. 32–33.
- Kieseberg, P., E. R. Weippl, and A. Holzinger (2016c). “Trust for the ”Doctor in the Loop””. In: *ERCIM News (special theme: Tackling Big Data in the Life Sciences)* 2016.104, pp. 32–33.
- Kieseberg, P., B. Malle, P. Fruehwirt, E. Weippl, and A. Holzinger (2016). “A tamper-proof audit and control system for the doctor in the loop”. In: *Brain Informatics*, pp. 1–11. DOI: 10.1007/s40708-016-0046-2.
- Malle, B., P. Kieseberg, S. Schrittwieser, and A. Holzinger (2016a). “Privacy Aware Machine Learning and the Right to be Forgotten”. In: *ERCIM News (special theme: machine learning)* 107.3, pp. 22–23.
- Mayer, C., M. Bachler, A. Holzinger, P. Stein, and S. Wassertheurer (2016). “The Effect of Threshold Values and Weighting Factors on the Association between Entropy Measures and Mortality after Myocardial Infarction in the Cardiac Arrhythmia Suppression Trial (CAST)”. In: *Entropy* 18.4, 129:1–15. DOI: 10.3390/e18040129.
- Yimam, S. M., C. Biemann, L. Majnaric, S. Sabanovic, and A. Holzinger (2016). “An adaptive annotation approach for biomedical entity and relation recognition”. In: *Brain Informatics* 3.3, pp. 157–168. DOI: 10.1007/s40708-016-0036-4.
- Brauner, P., A. Holzinger, and M. Ziefle (2015). “Ubiquitous computing at its best: Serious exercise games for older adults in ambient assisted living environments”. In: *European Alliance on Innovation (EAI) Endorsed Transactions: Pervasive Games* 1.4, pp. 1–12. DOI: <http://dx.doi.org/10.4108/sg.1.4.e3>.
- Holzinger, A. (2015). “Data Mining with Decision Trees: Theory and Applications”. In: *Online Information Review* 39.3, pp. 437–438. DOI: 10.1108/OIR-04-2015-0121.
- Holzinger, A. and G. Pasi (2015). “Introduction to the special issue on Interactive Data Analysis”. In: *Information Processing and Management* 51.2, pp. 141–143. DOI: 10.1016/j.ipm.2014.11.002.

- Jeanquartier, F., C. Jean-Quartier, and A. Holzinger (2015). “Integrated Web visualizations for protein-protein interaction databases”. In: *BMC Bioinformatics* 16.1, p. 195. DOI: 10.1186/s12859-015-0615-z.
- Peischl, B., M. Ferk, and A. Holzinger (2015). “The fine art of user-centered software development”. In: *Software Quality Journal* 23.3, pp. 509–536. DOI: 10.1007/s11219-014-9239-1.
- Petz, G., M. Karpowicz, H. Fuerschuss, A. Auinger, V. Stritesky, and A. Holzinger (2015). “Computational approaches for mining users opinions on the Web 2.0”. In: *Information Processing and Management* 51.4, pp. 510–519. DOI: 10.1016/j.ipm.2014.07.011.
- Silva, H. P. da, S. H. Fairclough, A. Holzinger, R. J. K. Jacob, and D. S. Tan (2015a). “Introduction to the Special Issue on Physiological Computing for Human-Computer Interaction”. In: *ACM Transactions of Computer-Human Interaction* 21.6, 29:1–29:4. DOI: 10.1145/2688203.
- Bloice, M., K.-M. Simonic, and A. Holzinger (2014a). “Casebook: a virtual patient iPad application for teaching decision-making through the use of electronic health records”. In: *BMC Medical Informatics and Decision Making* 14.1, p. 66. DOI: 10.1186/1472-6947-14-66.
- Debevc, M., Z. Stjepanovic, and A. Holzinger (2014). “Development and evaluation of an e-learning course for deaf and hard of hearing based on the advanced Adapted Pedagogical Index (AdaPI) method”. In: *Interactive Learning Environments* 22.1, pp. 35–50. DOI: <http://dx.doi.org/10.1080/10494820.2011.641673>.
- Emmert-Streib, F., R. de Matos Simoes, G. Glazko, S. McDade, B. Haibe-Kains, A. Holzinger, M. Dehmer, and F. Campbell (2014). “Functional and genetic analysis of the colon cancer network”. In: *BMC Bioinformatics* 15.Suppl 6, S6. DOI: 10.1186/1471-2105-15-S6-S6.
- Holzinger, A. (2014d). “Trends in Interactive Knowledge Discovery for Personalized Medicine: Cognitive Science meets Machine Learning”. In: *IEEE Intelligent Informatics Bulletin* 15.1, pp. 6–14.
- Holzinger, A., M. Dehmer, and I. Jurisica (2014). “Knowledge Discovery and interactive Data Mining in Bioinformatics - State-of-the-Art, future challenges and research directions”. In: *BMC Bioinformatics* 15.S6, p. I1. DOI: doi:10.1186/1471-2105-15-S6-I1.
- Juric, S., V. Flis, M. Debevc, A. Holzinger, and B. Zalik (2014). “Towards a Low-Cost Mobile Subcutaneous Vein Detection Solution Using Near-Infrared Spectroscopy”. In: *The Scientific World Journal* 2014, p. 15. DOI: 10.1155/2014/365902.
- Kouh, I., M. Hintermair, A. Holzinger, Z. Voli, and M. Debevc (2014). “Enhancing universal access: deaf and hard of hearing people on social networking sites”. In: *Universal Access in the Information Society* 14.4, pp. 537–545. DOI: 10.1007/s10209-014-0354-3.
- Mayer, C., M. Bachler, M. Hortenhuber, C. Stocker, A. Holzinger, and S. Wassertheurer (2014). “Selection of entropy-measure parameters for knowledge discovery in heart rate variability data”. In: *BMC Bioinformatics* 15.Suppl 6, S2. DOI: doi:10.1186/1471-2105-15-S6-S2.
- Mueller, H., R. Reihs, K. Zatloukal, and A. Holzinger (2014). “Analysis of biomedical data with multilevel glyphs”. In: *BMC Bioinformatics* 15.Suppl 6, S5. DOI: 10.1186/1471-2105-15-S6-S5.
- Peischl, B., M. Ferk, and A. Holzinger (2014). “The fine art of user-centered software development”. In: *Software Quality Journal*, pp. 1–28. DOI: 10.1007/s11219-014-9239-1.
- Petz, G., M. Karpowicz, H. Frschu, A. Auinger, V. Sttesk, and A. Holzinger (2014). “Computational approaches for mining users opinions on the Web 2.0”. In: *Information Processing and Management* 50.6, pp. 899–908. DOI: 10.1016/j.ipm.2014.07.005.
- Yildirim, P., L. Majnaric, O. Ekmekci, and A. Holzinger (2014). “Knowledge discovery of drug data on the example of adverse reaction prediction”. In: *BMC Bioinformatics* 15.Suppl 6, S7. DOI: 10.1186/1471-2105-15-S6-S7.

- Bloice, M., K.-M. Simonic, and A. Holzinger (2013). “On the usage of health records for the design of virtual patients: a systematic review”. In: *Bmc Medical Informatics and Decision Making* 13.1, p. 103. DOI: 10.1186/1472-6947-13-103.
- Hametner, B., S. Wassertheurer, J. Kropf, C. Mayer, A. Holzinger, B. Eber, and T. Weber (2013). “Wave reflection quantification based on pressure waveforms alone Methods, comparison, and clinical covariates”. In: *Computer Methods and Programs in Biomedicine* 109.3, pp. 250–259. DOI: 10.1016/j.cmpb.2012.10.005.
- Holzinger, A. and M. Zupan (2013). “KNODWAT: A scientific framework application for testing knowledge discovery methods for the biomedical domain”. In: *Bmc Bioinformatics* 14.1, p. 191. DOI: 10.1186/1471-2105-14-191.
- Taraghi, B., M. Grossegger, M. Ebner, and A. Holzinger (2013). “Web Analytics of user path tracing and a novel algorithm for generating recommendations in Open Journal Systems”. In: *Online Information Review* 37.5, pp. 672–691. DOI: 10.1108/OIR-09-2012-0152.
- Holzinger, A., C. Stocker, B. Peischl, and K.-M. Simonic (2012e). “On Using Entropy for Enhancing Handwriting Preprocessing”. In: *Entropy* 14.11, pp. 2324–2350. DOI: 10.3390/e14112324.
- Mujacic, S., M. Debevc, P. Kosec, M. Bloice, and A. Holzinger (2012). “Modeling, design, development and evaluation of a hypervideo presentation for digital systems teaching and learning”. In: *Multimedia Tools and Applications MTAP* 58.2, pp. 435–452. DOI: 10.1007/s11042-010-0665-1.

ORIGINAL PEER-REVIEWED BOOK CHAPTERS

- Bloice, M. D. and A. Holzinger (2016). “A Tutorial on Machine Learning and Data Science Tools with Python”. In: *Machine Learning for Health Informatics, Lecture Notes in Artificial Intelligence LNAI 9605*. Ed. by A. Holzinger. Heidelberg: Springer, pp. 437–483. DOI: 10.1007/978-3-319-50478-0_22.
- Holzinger, A, M Plass, K Holzinger, G. Crisan, C. Pintea, and V Palade (2016). “Towards interactive Machine Learning (iML): Applying Ant Colony Algorithms to solve the Traveling Salesman Problem with the Human-in-the-Loop approach”. In: *Springer Lecture Notes in Computer Science LNCS 9817*. Heidelberg, Berlin, New York: Springer, pp. 81–95. DOI: 10.1007/978-3-319-45507-56.
- Holzinger, A. (2016c). “Machine Learning for Health Informatics”. In: *Machine Learning for Health Informatics: State-of-the-Art and Future Challenges, Lecture Notes in Artificial Intelligence LNAI 9605*. Ed. by A. Holzinger. Cham: Springer International Publishing, pp. 1–24. DOI: 10.1007/978-3-319-50478-0_1.
- Jeanquartier, F., C. Jean-Quartier, T. Schreck, D. Cemernek, and A. Holzinger (2016b). “Integrating Open Data on Cancer in Support to Tumor Growth Analysis”. In: *Lecture Notes in Computer Science LNCS 9832*. Ed. by E. M. Renda, M. Bursa, A. Holzinger, and S. Khuri. Cham: Springer, pp. 49–66. DOI: 10.1007/978-3-319-43949-5_4.
- Jeanquartier, F., C. Jean-Quartier, M. Kotlyar, T. Tokar, A.-C. Hauschild, I. Jurisica, and A. Holzinger (2016c). “Machine Learning for In Silico Modeling of Tumor Growth”. In: *Machine Learning for Health Informatics, Springer Lecture Notes in Artificial Intelligence LNAI 9605*. Ed. by A. Holzinger. Cham: Springer International Publishing, pp. 415–434. DOI: 10.1007/978-3-319-50478-0_21.
- Lee, S. and A. Holzinger (2016). “Knowledge Discovery from Complex High Dimensional Data”. In: *Solving Large Scale Learning Tasks. Challenges and Algorithms, Lecture Notes in Artificial Intelligence, LNAI 9580*. Ed. by S. Michaelis, N. Piatkowski, and M. Stolpe. Cham: Springer International Publishing, pp. 148–167. DOI: 10.1007/978-3-319-41706-6_7.
- Malle, B., P. Kieseberg, E. Weippl, and A. Holzinger (2016b). “The right to be forgotten: Towards Machine Learning on perturbed knowledge bases”. In: *Springer Lecture Notes in Computer*

- Science LNCS 9817*. Heidelberg, Berlin, New York: Springer, pp. 251–256. DOI: 10.1007/978-3-319-45507-5_17.
- Miljkovic, D., D. Aleksovski, V. Podpecan, N. Lavrac, B. Malle, and A. Holzinger (2016). “Machine Learning and Data mining Methods for Managing Parkinsons Disease”. In: *Machine Learning for Health Informatics - State-of-the-art and future challenges, Lecture Notes in Artificial Intelligence LNAI 9605*. Ed. by A. Holzinger. Heidelberg et al.: Springer, pp. 209–220. DOI: 10.1007/978-3-319-50478-0_10.
- Robert, S., S. Bttner, C. Rcker, and A. Holzinger (2016). “Reasoning Under Uncertainty: Towards Collaborative Interactive Machine Learning”. In: *Machine Learning for Health Informatics: State-of-the-Art and Future Challenges*. Ed. by A. Holzinger. Cham: Springer International Publishing, pp. 357–376. DOI: 10.1007/978-3-319-50478-0_18.
- Valdez, A. C., M. Dehmer, and A. Holzinger (2016). “Application of Graph Entropy for Knowledge Discovery and Data Mining in Bibliometric Data”. In: *Mathematical Foundations and Applications of Graph Entropy*. Ed. by M. Dehmer, F. Emmert-Streib, Z. Chen, X. Li, and Y. Shi. New York: Wiley, pp. 259–272.
- Valdez, A. C., M. Ziefle, K. Verbert, A. Felfernig, and A. Holzinger (2016). “Recommender Systems for Health Informatics: State-of-the-Art and Future Perspectives”. In: *Machine Learning for Health Informatics, Lecture Notes in Artificial Intelligence LNAI 9605*. Ed. by A. Holzinger. Heidelberg et. al.: Springer, pp. 391–414. DOI: 10.1007/978-3-319-50478-0_20.
- Wartner, S., D. Girardi, M. Wiesinger-Widi, J. Trenkler, R. Kleiser, and A. Holzinger (2016). “Ontology-Guided Principal Component Analysis: Reaching the Limits of the Doctor-in-the-Loop”. In: *Information Technology in Bio- and Medical Informatics: 7th International Conference, ITBAM 2016, Porto, Portugal, September 5-8, 2016, Proceedings*. Ed. by E. M. Renda, M. Bursa, A. Holzinger, and S. Khuri. Cham: Springer International Publishing, pp. 22–33. DOI: 10.1007/978-3-319-43949-5_2.
- Donsa, K., S. Spat, P. Beck, T. R. Pieber, and A. Holzinger (2015). “Towards personalization of diabetes therapy using computerized decision support and machine learning: some open problems and challenges”. In: *Smart Health, Lecture Notes in Computer Science LNCS 8700*. Ed. by A. Holzinger, C. Roecker, and M. Ziefle. Heidelberg, Berlin: Springer, pp. 235–260. DOI: 10.1007/978-3-319-16226-3_10.
- Duerr-Specht, M., R. Goebel, and A. Holzinger (2015). “Medicine and Health Care as a Data Problem: Will Computers become better medical doctors?” In: *Smart Health, State-of-the-Art SOTA Lecture Notes in Computer Science LNCS 8700*. Ed. by A. Holzinger, C. Roecker, and M. Ziefle. Heidelberg, Berlin, New York: Springer, pp. 21–39. DOI: 10.1007/978-3-319-16226-3_2.
- Girardi, D., J. Kueng, and A. Holzinger (2015). “A Domain-Expert Centered Process Model for Knowledge Discovery in Medical Research: Putting the Expert-in-the-Loop”. In: *Brain Informatics and Health, Lecture Notes in Computer Science LNCS 9250*. Ed. by Y. Guo, K. Friston, F. Aldo, S. Hill, and H. Peng. Cham, Heidelberg, Berlin, London, Dordrecht, New York: Springer, pp. 389–398. DOI: 10.1007/978-3-319-23344-4_38.
- Holzinger, A., C. Rcker, and M. Ziefle (2015). “From Smart Health to Smart Hospitals”. In: *Smart Health: State-of-the-Art and Beyond, Springer Lecture Notes in Computer Science, LNCS 8700*. Heidelberg, Berlin: Springer, pp. 1–20. DOI: 10.1007/978-3-319-16226-3_1.
- Hund, M., W. Sturm, T. Schreck, T. Ullrich, D. Keim, L. Majnaric, and A. Holzinger (2015). “Analysis of Patient Groups and Immunization Results Based on Subspace Clustering”. In: *Brain Informatics and Health, Lecture Notes in Artificial Intelligence LNAI 9250*. Ed. by Y. Guo, K. Friston, F. Aldo, S. Hill, and H. Peng. Vol. 9250. Cham: Springer International Publishing, pp. 358–368. DOI: 10.1007/978-3-319-23344-4_35.
- Kieseberg, P., J. Schantl, P. Frhwirt, E. Weippl, and A. Holzinger (2015). “Witnesses for the Doctor in the Loop”. In: *Brain Informatics and Health, Lecture Notes in Artificial Intelligence LNAI*

9250. Ed. by Y. Guo, K. Friston, F. Aldo, S. Hill, and H. Peng. Cham, Heidelberg, Berlin: Springer, pp. 369–378. DOI: 10.1007/978-3-319-23344-4_36.
- Mller, H., R. Reihls, K. Zatloukal, F. Jeanquartier, R. Merino-Martinez, D. van Enckevort, M. A. Swertz, and A. Holzinger (2015). “State-of-the-Art and Future Challenges in the Integration of Biobank Catalogues”. In: *Smart Health*. Ed. by A. Holzinger, C. Rcker, and M. Ziefle. Vol. 8700. Springer International Publishing, pp. 261–273. DOI: 10.1007/978-3-319-16226-3_11.
- Rahim, S. S., V. Palade, C. Jayne, A. Holzinger, and J. Shuttleworth (2015). “Detection of Diabetic Retinopathy and Maculopathy in Eye Fundus Images Using Fuzzy Image Processing”. In: *Brain Informatics and Health, Lecture Notes in Computer Science, LNCS 9250*. Ed. by Y. Guo, K. Friston, F. Aldo, S. Hill, and H. Peng. Cham, Heidelberg, New York, Dordrecht, London: Springer, pp. 379–388. DOI: 10.1007/978-3-319-23344-4_37.
- Yimam, S., C. Biemann, L. Majnarić, S. Sabanović, and A. Holzinger (2015). “Interactive and Iterative Annotation for Biomedical Entity Recognition”. In: *Brain Informatics and Health, Lecture Notes in Artificial Intelligence LNAI 9250*. Ed. by Y. Guo, K. Friston, F. Aldo, S. Hill, and H. Peng. Cham, Heidelberg, Berlin: Springer, pp. 347–357. DOI: 10.1007/978-3-319-23344-4_34.
- Babic, F., L. Majnarić, A. Lukacova, J. Paralic, and A. Holzinger (2014). “On Patients Characteristics Extraction for Metabolic Syndrome Diagnosis: Predictive Modelling Based on Machine Learning”. In: *Information Technology in Bio- and Medical Informatics*. Ed. by M. Bursa, S. Khuri, and M. E. Renda. Vol. 8649. Springer International Publishing, pp. 118–132. DOI: 10.1007/978-3-319-10265-8_11.
- Bachler, M., M. Hrtzenhuber, C. Mayer, A. Holzinger, and S. Wassertheurer (2014). “Entropy-Based Data Mining on the Example of Cardiac Arrhythmia Suppression”. In: *Brain Informatics and Health, Lecture Notes in Artificial Intelligence LNAI 8609*. Ed. by D. Iżak, A.-H. Tan, J. Peters, and L. Schwabe. Heidelberg, Berlin: Springer, pp. 574–585. DOI: 10.1007/978-3-319-09891-3_52.
- Bloice, M., K.-M. Simonic, and A. Holzinger (2014b). “On the Usage of Health Records for the Teaching of Decision-Making to Students of Medicine”. In: *The New Development of Technology Enhanced Learning*. Ed. by R. Huang, Kinshuk, and N.-S. Chen. Springer Berlin Heidelberg, pp. 185–201. DOI: 10.1007/978-3-642-38291-8_11.
- Calero Valdez, A., A. Schaar, M. Ziefle, and A. Holzinger (2014). “Enhancing Interdisciplinary Cooperation by Social Platforms”. In: *Human Interface and the Management of Information. Information and Knowledge Design and Evaluation*. Ed. by S. Yamamoto. Vol. 8521. Springer International Publishing, pp. 298–309. DOI: 10.1007/978-3-319-07731-4_31.
- Holzinger, A. (2014b). “Extravaganza Tutorial on Hot Ideas for Interactive Knowledge Discovery and Data Mining in Biomedical Informatics”. In: *Brain Informatics and Health. Lecture Notes in Artificial Intelligence LNAI 8609*. Ed. by D. Iżak, A.-H. Tan, J. Peters, and L. Schwabe. Heidelberg, Berlin, New York: Springer, pp. 502–515. DOI: 10.1007/978-3-319-09891-3_46.
- Holzinger, A. (2014c). “On Topological Data Mining”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Berlin Heidelberg: Springer, pp. 331–356. DOI: 10.1007/978-3-662-43968-5_19.
- Holzinger, A. and I. Jurisica (2014b). “Knowledge Discovery and Data Mining in Biomedical Informatics: The future is in Integrative, Interactive Machine Learning Solutions”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics: State-of-the-Art and Future Challenges. Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Heidelberg, Berlin: Springer, pp. 1–18. DOI: 10.1007/978-3-662-43968-5_1.
- Holzinger, A., B. Malle, and N. Giuliani (2014). “On Graph Extraction from Image Data”. In: *Brain Informatics and Health, BIH 2014, Lecture Notes in Artificial Intelligence, LNAI 8609*. Ed. by D. Slezak, J. F. Peters, A.-H. Tan, and L. Schwabe. Heidelberg, Berlin: Springer, pp. 552–563. DOI: 10.1007/978-3-319-09891-3_50.

- Holzinger, A., B. Ofner, and M. Dehmer (2014). “Multi-touch Graph-Based Interaction for Knowledge Discovery on Mobile Devices: State-of-the-Art and Future Challenges”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Berlin Heidelberg: Springer, pp. 241–254. DOI: 10.1007/978-3-662-43968-5_14.
- Holzinger, A., C. Stocker, and M. Dehmer (2014). “Big Complex Biomedical Data: Towards a Taxonomy of Data”. In: *Communications in Computer and Information Science CCIS 455*. Ed. by M. S. Obaidat and J. Filipe. Berlin Heidelberg: Springer, pp. 3–18. DOI: 10.1007/978-3-662-44791-8_1.
- Holzinger, A., J. Schantl, M. Schroettner, C. Seifert, and K. Verspoor (2014b). “Biomedical Text Mining: State-of-the-Art, Open Problems and Future Challenges”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Vol. 8401. Berlin Heidelberg: Springer, pp. 271–300. DOI: 10.1007/978-3-662-43968-5_16.
- Holzinger, A., B. Sommerauer, P. Spitzer, S. Juric, B. Zalik, M. Debevc, C. Lidynia, A. Valdez, C. Roecker, and M. Zieffle (2014c). “Mobile Computing is not Always Advantageous: Lessons Learned from a Real-World Case Study in a Hospital”. In: *Availability, Reliability, and Security in Information Systems, LNCS 8708*. Ed. by S. Teufel, A. M. Tjoa, I. You, and E. Weippl. Heidelberg, Berlin, London, New York: Springer, pp. 110–123. DOI: 10.1007/978-3-319-10975-6_8.
- Holzinger, A., M. Hrtenhuber, C. Mayer, M. Bachler, S. Wassertheurer, A. Pinho, and D. Koslicki (2014d). “On Entropy-Based Data Mining”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Berlin Heidelberg: Springer, pp. 209–226. DOI: 10.1007/978-3-662-43968-5_12.
- Holzinger, A., B. Malle, M. Bloice, M. Wiltgen, M. Ferri, I. Stanganelli, and R. Hofmann-Wellenhof (2014e). “On the Generation of Point Cloud Data Sets: Step One in the Knowledge Discovery Process”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Vol. 8401. Berlin Heidelberg: Springer, pp. 57–80. DOI: 10.1007/978-3-662-43968-5_4.
- Holzinger, A., M. Schwarz, B. Ofner, F. Jeanquartier, A. Calero-Valdez, C. Roecker, and M. Zieffle (2014f). “Towards Interactive Visualization of Longitudinal Data to Support Knowledge Discovery on Multi-touch Tablet Computers”. In: *Availability, Reliability, and Security in Information Systems, LNCS 8708*. Ed. by S. Teufel, A. M. Tjoa, I. You, and E. Weippl. Heidelberg, Berlin: Springer, pp. 124–137. DOI: 10.1007/978-3-319-10975-6_9.
- Holzinger, K., V. Palade, R. Rabadan, and A. Holzinger (2014g). “Darwin or Lamarck? Future Challenges in Evolutionary Algorithms for Knowledge Discovery and Data Mining”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics: State-of-the-Art and Future Challenges. Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Heidelberg, Berlin: Springer, pp. 35–56. DOI: 10.1007/978-3-662-43968-5_3.
- Huppertz, B. and A. Holzinger (2014). “Biobanks A Source of large Biological Data Sets: Open Problems and Future Challenges”. In: *Interactive Knowledge Discovery and Data Mining: State-of-the-Art and Future Challenges in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Heidelberg, Berlin: Springer, pp. 317–330. DOI: 10.1007/978-3-662-43968-5_18.
- Kieseberg, P., H. Hobel, S. Schrittwieser, E. Weippl, and A. Holzinger (2014). “Protecting Anonymity in Data-Driven Biomedical Science”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics, Lecture Notes in Computer Science, LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Berlin Heidelberg: Springer, pp. 301–316. DOI: 10.1007/978-3-662-43968-5_17.

- Otasek, D., C. Pastrello, A. Holzinger, and I. Jurisica (2014). “Visual Data Mining: Effective Exploration of the Biological Universe”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics: State-of-the-Art and Future Challenges. Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Heidelberg, Berlin: Springer, 19–34. DOI: 10.1007/978-3-662-43968-5_2.
- Preuss, M., M. Dehmer, S. Pickl, and A. Holzinger (2014). “On Terrain Coverage Optimization by Using a Network Approach for universal Graph-based Data Mining and Knowledge Discovery”. In: *BIH 2014 Lecture Notes in Artificial Intelligence LNAI 8609*. Ed. by D. Slezak, A.-H. Tan, J. F. Peters, and L. Schwabe. Heidelberg, Berlin: Springer, pp. 564–573. DOI: 10.1007/978-3-319-09891-3_51.
- Rcker, C., M. Ziefle, and A. Holzinger (2014). “From Computer Innovation to Human Integration: Current Trends and Challenges for Pervasive Health Technologies”. In: *Pervasive Health*. Ed. by A. Holzinger, M. Ziefle, and C. Rcker. Springer London, pp. 1–17. DOI: 10.1007/978-1-4471-6413-5_1.
- Turkay, C., F. Jeanquartier, A. Holzinger, and H. Hauser (2014). “On Computationally-enhanced Visual Analysis of Heterogeneous Data and its Application in Biomedical Informatics”. In: *Interactive Knowledge Discovery and Data Mining: State-of-the-Art and Future Challenges in Biomedical Informatics. Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Berlin, Heidelberg: Springer, pp. 117–140. DOI: 10.1007/978-3-662-43968-5_7.
- Yildirim, P., M. Bloice, and A. Holzinger (2014). “Knowledge Discovery and Visualization of Clusters for Erythromycin Related Adverse Events in the FDA Drug Adverse Event Reporting System”. In: *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics: State-of-the-Art and Future Challenges. Lecture Notes in Computer Science LNCS 8401*. Ed. by A. Holzinger and I. Jurisica. Heidelberg, Berlin: Springer, pp. 101–116. DOI: 10.1007/978-3-662-43968-5_6.
- Bachler, M., C. Mayer, B. Hametner, S. Wassertheurer, and A. Holzinger (2013). “Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography”. In: *Pervasive Computing and the Networked World, Lecture Notes in Computer Science LNCS 7719*. Ed. by Q. Zu, B. Hu, and A. Eli. Berlin Heidelberg: Springer, pp. 1–15. DOI: 10.1007/978-3-642-37015-1_1.
- Belk, M., P. Germanakos, C. Fidas, A. Holzinger, and G. Samaras (2013). “Towards the Personalization of CAPTCHA Mechanisms Based on Individual Differences in Cognitive Processing”. In: *Human Factors in Computing and Informatics, Lecture Notes in Computer Science, LNCS 7946*. Ed. by A. Holzinger, M. Ziefle, M. Hitz, and M. Debevc. Berlin Heidelberg: Springer, pp. 409–426. DOI: 10.1007/978-3-642-39062-3_26.
- Ebner, M., J. Wachtler, and A. Holzinger (2013). “Introducing an Information System for Successful Support of Selective Attention in Online Courses”. In: *Universal Access in Human-Computer Interaction. Applications and Services for Quality of Life, Lecture Notes in Computer Science LNCS 8011*. Ed. by C. Stephanidis and M. Antona. Berlin Heidelberg: Springer, pp. 153–162. DOI: 10.1007/978-3-642-39194-1_18.
- Himmel, S., M. Ziefle, C. Lidynia, and A. Holzinger (2013). “Older Users Wish List for Technology Attributes”. In: *Availability, Reliability, and Security in Information Systems and HCI, Lecture Notes in Computer Science LNCS 8127*. Heidelberg, Berlin: Springer, pp. 16–27. DOI: 10.1007/978-3-642-40511-2_2.
- Holzinger, A. (2013). “HumanComputer Interaction and Knowledge Discovery (HCI-KDD): What is the benefit of bringing those two fields to work together?” In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 8127*. Ed. by A. Cuzzocrea, C. Kittl, D. E. Simos, E. Weippl, and L. Xu. Heidelberg, Berlin, New York: Springer, pp. 319–328. DOI: 10.1007/978-3-642-40511-2_22.

- Holzinger, A., M. Bruschi, and W. Eder (2013). “On Interactive Data Visualization of Physiological Low-Cost-Sensor Data with Focus on Mental Stress”. In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 8127*. Ed. by D. E. S. E. W. L. X. Alfredo Cuzzocrea Christian Kittl. Heidelberg, Berlin: Springer, 469480. DOI: 10.1007/978-3-642-40511-2_34.
- Holzinger, A., B. Ofner, C. Stocker, A. C. Valdez, A. K. Schaar, M. Ziefle, and M. Dehmer (2013b). “On Graph Entropy Measures for Knowledge Discovery from Publication Network Data”. In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 8127*. Ed. by A. Cuzzocrea, C. Kittl, D. E. Simos, E. Weippl, and L. Xu. Heidelberg, Berlin: Springer, pp. 354–362. DOI: 10.1007/978-3-642-40511-2_25.
- Holzinger, A., P. Yildirim, M. Geier, and K.-M. Simonic (2013c). “Quality-Based Knowledge Discovery from Medical Text on the Web”. In: *Quality Issues in the Management of Web Information, Intelligent Systems Reference Library, ISRL 50*. Ed. by G. Pasi, G. Bordogna, and L. C. Jain. Berlin Heidelberg: Springer, pp. 145–158. DOI: 10.1007/978-3-642-37688-7_7.
- Jeanquartier, F. and A. Holzinger (2013). “On Visual Analytics And Evaluation In Cell Physiology: A Case Study”. In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 8127*. Ed. by A. Cuzzocrea, C. Kittl, D. E. Simos, E. Weippl, and L. Xu. Heidelberg, Berlin: Springer, pp. 495–502. DOI: 10.1007/978-3-642-40511-2_36.
- Petz, G., M. Karpowicz, H. Frschu, A. Auinger, V. Sttesk, and A. Holzinger (2013). “Opinion Mining on the Web 2.0 Characteristics of User Generated Content and Their Impacts”. In: *Lecture Notes in Computer Science LNCS 7947*. Heidelberg, Berlin: Springer, pp. 35–46. DOI: 10.1007/978-3-642-39146-0_4.
- Xie, S., M. Helfert, A. Lugmayr, R. Heimgrtner, and A. Holzinger (2013). “Influence of Organizational Culture and Communication on the Successful Implementation of Information Technology in Hospitals”. In: *Cross-Cultural Design. Cultural Differences in Everyday Life, , Lecture Notes in Computer Science, LNCS 8024*. Ed. by P. L. P. Rau. Heidelberg, Berlin: Springer, pp. 165–174. DOI: 10.1007/978-3-642-39137-8_19.
- Yildirim, P., I. Ekmekci, and A. Holzinger (2013). “On Knowledge Discovery in Open Medical Data on the Example of the FDA Drug Adverse Event Reporting System for Alendronate (Fosamax)”. In: *Human-Computer Interaction and Knowledge Discovery in Complex, Unstructured, Big Data, Lecture Notes in Computer Science, LNCS 7947*. Ed. by A. Holzinger and G. Pasi. Berlin Heidelberg: Springer, pp. 195–206. DOI: 10.1007/978-3-642-39146-0_18.
- Yildirim, P., L. Majnari, O. I. Ekmekci, and A. Holzinger (2013). “On the Prediction of Clusters for Adverse Reactions and Allergies on Antibiotics for Children to Improve Biomedical Decision Making”. In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 8127*. Ed. by A. Cuzzocrea, C. Kittl, D. E. Simos, E. Weippl, and L. Xu. Heidelberg, Berlin, New York: Springer, pp. 431–445. DOI: 10.1007/978-3-642-40511-2_31.
- Ziefle, M., L. Klack, W. Wilkowska, and A. Holzinger (2013). “Acceptance of Telemedical Treatments A Medical Professional Point of View”. In: *Human Interface and the Management of Information. Information and Interaction for Health, Safety, Mobility and Complex Environments, Lecture Notes in Computer Science LNCS 8017*. Ed. by S. Yamamoto. Berlin Heidelberg: Springer, pp. 325–334. DOI: 10.1007/978-3-642-39215-3_39.
- Billinger, M., C. Brunner, R. Scherer, A. Holzinger, and G. Miller-Putz (2012). “Towards a Framework Based on Single Trial Connectivity for Enhancing Knowledge Discovery in BCI”. In: *Active Media Technology, Lecture Notes in Computer Science, LNCS 7669*. Ed. by R. Huang, A. Ghorbani, G. Pasi, T. Yamaguchi, N. Yen, and B. Jin. Berlin Heidelberg: Springer, pp. 658–667. DOI: 10.1007/978-3-642-35236-2_65.
- Breitwieser, C., O. Terbu, A. Holzinger, C. Brunner, S. Lindstaedt, and G. Miller-Putz (2012). “iScope Viewing Biosignals on Mobile Devices”. In: *Pervasive Computing and the Networked*

- World, *Lecture Notes in Computer Science LNCS 7719*. Ed. by Q. Zu, B. Hu, and A. Eli. Berlin Heidelberg: Springer, pp. 50–56. DOI: 10.1007/978-3-642-37015-1_5.
- Calero Valdez, A., A. Schaar, M. Ziefle, A. Holzinger, S. Jeschke, and C. Brecher (2012). “Using Mixed Node Publication Network Graphs for Analyzing Success in Interdisciplinary Teams”. In: *Active Media Technology, Lecture Notes in Computer Science LNCS 7669*. Ed. by R. Huang, A. A. Ghorbani, G. Pasi, T. Yamaguchi, N. Y. Yen, and B. Jin. Heidelberg, Berlin: Springer, pp. 606–617. DOI: 10.1007/978-3-642-35236-2_61.
- Debevc, M., I. Kouh, P. Kosec, M. Rotovnik, and A. Holzinger (2012). “Sign Language Multimedia Based Interaction for Aurally Handicapped People”. In: *Computers Helping People with Special Needs, Lecture Notes in Computer Science, LNCS 7383*. Ed. by K. Miesenberger, A. Karshmer, P. Penaz, and W. Zagler. Berlin Heidelberg: Springer, pp. 213–220. DOI: 10.1007/978-3-642-31534-3_33.
- Holzinger, A., M. Geier, and P. Germanakos (2012). “On the development of smart adaptive user interfaces for mobile e-Business applications: Towards enhancing User Experience some lessons learned”. In: *ICE-B Conference (10.5220/0004067002050214)*. SciTePress, pp. 205–214.
- Holzinger, A., G. Searle, B. Peischl, and M. Debevc (2012a). “An Answer to Who needs a stylus? On Handwriting Recognition on Mobile Devices”. In: *e-Business and Telecommunications, Communications in Computer and Information Science, CCIS 314*. Heidelberg, Berlin, New York: Springer, pp. 156–167. DOI: 10.1007/978-3-642-35755-8_12.
- Holzinger, A., P. Treitler, and W. Slany (2012). “Making Apps Useable on Multiple Different Mobile Platforms: On Interoperability for Business Application Development on Smartphones”. In: *Multidisciplinary Research and Practice for Information Systems, Springer Lecture Notes in Computer Science LNCS 7465*. Ed. by G. Quirchmayr, J. Basl, I. You, L. Xu, and E. Weippl. Berlin, Heidelberg: Springer, pp. 176–189. DOI: 10.1007/978-3-642-32498-7_14.
- Holzinger, A., R. Scherer, M. Seeber, J. Wagner, and G. Mller-Putz (2012b). “Computational Sensemaking on Examples of Knowledge Discovery from Neuroscience Data: Towards Enhancing Stroke Rehabilitation”. In: *Information Technology in Bio- and Medical Informatics, Lecture Notes in Computer Science, LNCS 7451*. Ed. by C. Bhm, S. Khuri, L. Lhotsk, and M. Renda. Heidelberg, New York: Springer, pp. 166–168. DOI: 10.1007/978-3-642-32395-9_13.
- Holzinger, A., C. Stocker, M. Bruschi, A. Auinger, H. Silva, H. Gamboa, and A. Fred (2012c). “On Applying Approximate Entropy to ECG Signals for Knowledge Discovery on the Example of Big Sensor Data”. In: *Active Media Technology, Lecture Notes in Computer Science, LNCS 7669*. Ed. by R. Huang, A. Ghorbani, G. Pasi, T. Yamaguchi, N. Yen, and B. Jin. Berlin Heidelberg: Springer, pp. 646–657. DOI: 10.1007/978-3-642-35236-2_64.
- Holzinger, A., E. Popova, B. Peischl, and M. Ziefle (2012d). “On Complexity Reduction of User Interfaces for Safety-Critical Systems”. In: *Multidisciplinary Research and Practice for Information Systems, Lecture Notes in Computer Science, LNCS 7465*. Ed. by G. Quirchmayr, J. Basl, I. You, L. Xu, and E. Weippl. Berlin, Heidelberg: Springer, pp. 108–122. DOI: 10.1007/978-3-642-32498-7_9.
- Holzinger, A., M. Schlg, B. Peischl, and M. Debevc (2012f). “Optimization of a Handwriting Recognition Algorithm for a Mobile Enterprise Health Information System on the Basis of Real-Life Usability Research”. In: *e-Business and Telecommunications, Communications in Computer and Information Science, CCIS 222*. Ed. by M. S. Obaidat, G. A. Tsihrintzis, and J. Filipe. Vol. 222. Berlin Heidelberg: Springer, pp. 97–111. DOI: 10.1007/978-3-642-25206-8_6.
- Nedbal, D., A. Auinger, A. Hochmeier, and A. Holzinger (2012). “A Systematic Success Factor Analysis in the Context of Enterprise 2.0: Results of an Exploratory Analysis Comprising Digital Immigrants and Digital Natives”. In: *E-Commerce and Web Technologies, Lecture Notes in Business Information Processing, LNBIP 123*. Ed. by C. Huemer and P. Lops. Heidelberg, Berlin: Springer, pp. 163–175. DOI: 10.1007/978-3-642-32273-0_14.
- Novak, J., J. Ziegler, U. Hoppe, A. Holzinger, C. Heintze, and M. Bckle (2012). “Mobile Anwendungen fr Medizin und Gesundheit”. In: *Mensch & Computer Workshopband: interaktiv informiert*

allgegenwärtig und allumfassend!? Ed. by H. Reiterer and O. Deussen. München: Oldenbourg Verlag, pp. 227–230.

Petz, G., M. Karpowicz, H. Frschu, A. Auinger, S. Winkler, S. Schaller, and A. Holzinger (2012). “On Text Preprocessing for Opinion Mining Outside of Laboratory Environments”. In: *Active Media Technology, Lecture Notes in Computer Science, LNCS 7669*. Ed. by R. Huang, A. Ghorbani, G. Pasi, T. Yamaguchi, N. Yen, and B. Jin. Berlin Heidelberg: Springer, pp. 618–629. DOI: 10.1007/978-3-642-35236-2_62.

Ziefle, M., S. Himmel, and A. Holzinger (2012). “How usage context shapes evaluation and adoption in different technologies”. In: *Advances in Usability Evaluation Part II*. Ed. by F. Rebelo and M. M. Soares. Boca Raton (FL): CRC Press, pp. 2812–2821. DOI: 10.1201/b12324-25.

ORIGINAL PEER-REVIEWED CONFERENCE PAPERS

Holzinger, A., M. Plass, and M. D. Kickmeier-Rust (2016). “Interactive Machine Learning (iML): a challenge for Game-based approaches”. In: *Challenges in Machine Learning: Gaming and Education*. Ed. by I. Guyon, E. Viegas, S. Escalera, B. Hamner, and B. Kegl. NIPS Workshops.

“DATA 2015 - Proceedings of 4th International Conference on Data Management Technologies and Applications, Colmar, Alsace, France, 20-22 July, 2015” (2015a). In: *DATA 2015*. Ed. by M. Helfert, A. Holzinger, O. Belo, and C. Francalanci. Lisbon: SciTePress.

Sturm, W., T. Schreck, A. Holzinger, and T. Ullrich (2015a). “Discovering Medical Knowledge Using Visual Analytics a survey on methods for systems biology and omics data”. In: *Eurographics Workshop on Visual Computing for Biology and Medicine (2015)*. Ed. by K. Buehler, L. Linsen, and N. W. John. Eurographics EG, pp. 71–81. DOI: 10.2312/vcbm.20151210.

Sturm, W., T. Schaefer, T. Schreck, A. Holzinger, and T. Ullrich (2015b). “Extending the Scaffold Hunter Visualization Toolkit with Interactive Heatmaps”. In: *EG UK Computer Graphics and Visual Computing CGVC 2015*. Ed. by R. Borgo and C. Turkey. Euro Graphics (EG), pp. 77–84. DOI: 10.2312/cgvc.20151247.

Holzinger, A., D. Blanchard, M. Bloice, K. Holzinger, V. Palade, and R. Rabadan (2014a). “Darwin, Lamarck, or Baldwin: Applying Evolutionary Algorithms to Machine Learning Techniques”. In: *IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*. Ed. by D. Izak, B. Dunin-Kplicz, M. Lewis, and T. Terano. IEEE, pp. 449–453. DOI: 10.1109/WI-IAT.2014.132.

Stocker, C., L.-M. Marzi, C. Matula, J. Schantl, G. Prohaska, A. Brabenetz, and A. Holzinger (2014). “Enhancing Patient Safety through Human-Computer Information Retrieval on the Example of German-speaking Surgical Reports”. In: *TIR 2014 - 11th International Workshop on Text-based Information Retrieval*. IEEE, pp. 1–5. DOI: 10.1109/DEXA.2014.53.

Al-Smadi, M., G. Wesiak, C. Guetl, and A. Holzinger (2012). “Assessment for/as Learning: Integrated Automatic Assessment in Complex Learning Resources for Self-Directed Learning”. In: *Complex, Intelligent and Software Intensive Systems (CISIS), 2012 Sixth International Conference on*, pp. 929–934. DOI: 10.1109/cisis.2012.210.

Auinger, A., P. Brandtner, P. Grodener, and A. Holzinger (2012). “Search Engine Optimization Meets e-Business-A Theory-based Evaluation: Findability and Usability as Key Success Factors”. In: *DCNET/ICE-B/OPTICS*, pp. 237–250.

Holzinger, A., K. M. Simonic, and P. Yildirim (2012). “Disease-Disease Relationships for Rheumatic Diseases: Web-Based Biomedical Textmining and Knowledge Discovery to Assist Medical Decision Making”. In: *IEEE 36th Annual Computer Software and Applications Conference (COMPSAC)*. Ed. by X. Bai, F. Belli, E. Bertino, C. K. Chang, A. Eli, C. Seceleanu, H. Xie, and M. Zulkernine, pp. 573–580. DOI: 10.1109/COMPSAC.2012.77.

Holzinger, A. (2012b). “On Knowledge Discovery and Interactive Intelligent Visualization of Biomedical Data - Challenges in HumanComputer Interaction and Biomedical Informatics”.

In: *DATA 2012, International Conference on Data Technologies and Applications*. Ed. by M. Helfert, C. Fancalanci, and J. Filipe, pp. 5–16.

Holzinger, K., G. Koiner-Erath, P. Kosec, M. Fassold, and A. Holzinger (2012g). “ArchaeoApp Rome Edition (AARE): Making Invisible Sites Visible - e-Business Aspects of Historic Knowledge Discovery via Mobile Devices”. In: *Scitec*, pp. 115–122. DOI: 10.5220/0004074801150122.

Peischl, B., M. Ziefle, and A. Holzinger (2012). “A Mobile Information System for Improved Navigation in Public Transport-User Centered Design, Development, Evaluation and e-Business Scenarios of a Mobile Roadmap Application”. In: *DCNET/ICE-B/OPTICS*. Ed. by M. S. Obaidat, J. L. Sevillano, Z. Zhang, D. A. Marca, M. v. Sinderen, J.-L. Marzo, and P. Nicopolitidis, pp. 217–221.

BOOKS AND EDITORIALS

Buccafurri, F., A. Holzinger, P. Kieseberg, A. M. Tjoa, and E. R. Weippl (2016). *Availability, Reliability, and Security in Information Systems - IFIP WG 8.4, 8.9, TC 5 International Cross-Domain Conference, CD-ARES 2016, and Workshop on Privacy Aware Machine Learning for Health Data Science, PAML 2016, Salzburg, Austria, August 31 - September 2, 2016 (Springer Lecture Notes in Computer Science, LNCS 9817)*. Heidelberg: Springer. DOI: 10.1007/978-3-319-45507-5.

Dehmer, M, F Emmert-Streib, S Pickl, and A Holzinger (2016). *Big Data of Complex Networks*. Boca Raton, London, New York: CRC Press Taylor and Francis Group.

Holzinger, A. (2016d). *Machine Learning for Health Informatics: State-of-the-Art and Future Challenges, Lecture Notes in Computer Science LNCS 9605*. Heidelberg: Springer.

Helfert, M., A. Holzinger, M. Ziefle, A. Fred, J. O’Donoghue, and C. Rcker (2015b). *Information and Communication Technologies for Ageing Well and e-Health*. Cham, New York, Tokyo: Springer International. DOI: 10.1007/978-3-319-27695-3.

Renda, M. E., M. Bursa, A. Holzinger, and S. Khuri (2015). *Information Technology in Bio-and Medical Informatics, Lecture Notes in Computer Science LNCS 9267*. Heidelberg, Berlin: Springer. DOI: 10.1007/978-3-319-22741-2.

Holzinger, A. (2014a). *Biomedical Informatics: Discovering Knowledge in Big Data*. New York: Springer. DOI: 10.1007/978-3-319-04528-3.

Holzinger, A. and I. Jurisica (2014a). *Knowledge Discovery and Data Mining in Biomedical Informatics: State-of-the-Art and Future Challenges, LNCS 8401*. Berlin Heidelberg: Springer. DOI: 10.1007/978-3-662-43968-5.

Holzinger, A., C. Rcker, and M. Ziefle (2014). *Smart Health - state-of-the-art and beyond. Springer Lecture Notes in Computer Science LNCS 8700*. Heidelberg, Berlin: Springer. DOI: 10.1007/978-3-319-16226-3.

Holzinger, A., M. Ziefle, and C. Rcker (2014). *Pervasive Health*. London: Springer. DOI: 10.1007/978-1-4471-6413-5_1.

Holzinger, A. and G. Pasi (2013). *Human-Computer Interaction and Knowledge Discovery in Complex, Unstructured, Big Data, Lecture Notes in Computer Science, LNCS 7947*. Heidelberg, Berlin: Springer. DOI: 10.1007/978-3-642-39146-0.

Holzinger, A., M. Ziefle, M. Hitz, and M. Debevc (2013a). *Human Factors in Computing and Informatics, Lecture Notes in Computer Science, LNCS 7946*. Heidelberg, Berlin: Springer. DOI: 10.1007/978-3-642-39062-3.

Holzinger, A. (2012a). *Biomedical Informatics: Computational Sciences meets Life Sciences*. Norderstedt: BoD.