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Research interests

Configuration Systems, Model-based Diagnosis, Recommender Systems, and Machine Learning

Selected Publications

1. **Learning Constraint Orderings for Direct Diagnosis**
Uta, M., Le, V.-M., Felfernig, A. & Helic, D., 2024, In: arXiv.org e-Print archive.
2. **Causality-based Explanations for Feature Model Configuration**
Felfernig, A., Garber, D., Le, V.-M. & Lubos, S., 4 Feb 2025, *VaMoS 2025: 19th International Working Conference on Variability Modelling of Software-Intensive Systems*. Association for Computing Machinery (ACM), p. 86-90
3. **Semantics-Preserving Merging of Feature Models**
Uta, M., Le, V.-M., Felfernig, A., Garber, D., Schenner, G. & Tran, T., 30 Oct 2024, *Proceedings of the 26th International Workshop on Configuration (ConfWS 2024) co-located with the 30th International Conference on Principles and Practice of Constraint Programming (CP 2024)*. CEUR Workshop Proceedings, Vol. 3812. p. 74-80 7 p. (CEUR Workshop Proceedings).
4. **INFORMEDQX: Informed Conflict Detection for Over-Constrained Problems**
Le, V.-M., Felfernig, A., Tran, T. N. T. & Uta, M., 25 Mar 2024, *Proceedings of the 38th AAAI Conference on Artificial Intelligence: Technical Tracks 14*. Wooldridge, M., Dy, J. & Natarajan, S. (eds.). AAAI Press, Vol. 38, 9. p. 10616-10623 8 p.
5. **Solving Multi-Configuration Problems: A Performance Analysis with Choco Solver**
Ritz, B., Felfernig, A., Le, V.-M. & Lubos, S., 4 Oct 2023, *Proceedings of the 25th International Workshop on Configuration (ConfWS 2023)*. Vol. 3509. p. 45-50 6 p. (CEUR Workshop Proceedings).
6. **FMTESTING: A FEATUREIDE Plug-in for Automated Feature Model Analysis and Diagnosis**
Burgstaller, T., Le, V.-M., Tran, T. N. T. & Felfernig, A., 28 Sept 2023, *ECAI 2023 - 26th European Conference on Artificial Intelligence, including 12th Conference on Prestigious Applications of Intelligent Systems, PAIS 2023 - Proceedings: 12th Conference on Prestigious Applications of Intelligent Systems (PAIS 2023)*. Gal, K., Gal, K., Nowe, A., Nalepa, G. J., Fairstein, R. & Radulescu, R. (eds.). IOS Press, p. 3190 - 3195 6 p. (Frontiers in Artificial Intelligence and Applications; vol. 372).
7. **Conjunctive Query Based Constraint Solving for Feature Model Configuration**
Felfernig, A., Le, V.-M. & Lubos, S., 26 Jul 2023, *The 12th Conference on Information Technology and Its Applications - Proceedings of the International Conference CITA 2023: Proceedings of the International Conference CITA 2023*. Nguyen, N. T., Le-Minh, H., Huynh, C.-P. & Nguyen, Q.-V. (eds.). Cham: Springer, Vol. 734. p. 357-367 11 p. (Lecture Notes in Networks and Systems; vol. 734 LNNS).
8. **FASTDIAGP: An Algorithm for Parallelized Direct Diagnosis**
Le, V.-M., Silva, C. V., Felfernig, A., Benavides, D., Galindo, J. & Tran, T. N. T., 27 Jun 2023, *AAAI-23 Technical Tracks 5*. Williams, B., Chen, Y. & Neville, J. (eds.). Association for the Advancement of Artificial Intelligence (AAAI), Vol. 37,5. p. 6442-6449 8 p. (Proceedings of the 37th AAAI Conference on Artificial Intelligence, AAAI 2023; vol. 37).
9. **Table-based knowledge representations for industrial feature models.**
Felfernig, A., Ortner, B. & Le, V.-M., 12 Sept 2022, *26th ACM International Systems and Software Product Line Conference, SPLC 2022 - Proceedings*. Felfernig, A., Fuentes, L., Cleland-Huang, J., Assuncao, W. K. G., Assuncao, W. K. G., Quinton, C., Guo, J., Schmid, K., Huchard, M., Ayala, I., Rojas, J. M., Le, V.-M. & Horcas, J. M. (eds.). Vol. B. p. 245-248 4 p.
10. **Test case aggregation for efficient feature model testing.**
Le, V.-M., Felfernig, A. & Tran, T. N. T., 12 Sept 2022, *26th ACM International Systems and Software Product Line Conference, SPLC 2022 - Proceedings*. Felfernig, A., Fuentes, L., Cleland-Huang, J., Assuncao, W. K. G., Assuncao, W. K. G., Quinton, C., Guo, J., Schmid, K., Huchard, M., Ayala, I., Rojas, J. M., Le, V.-M. & Horcas, J. M. (eds.). Association for Computing Machinery (ACM), Vol. B. p. 174-177 4 p.

11. **WipeOutR: automated redundancy detection for feature models.**
Le, V.-M., Felfernig, A., Uta, M., Tran, T. N. T. & Silva, C. V., 12 Sept 2022, *26th ACM International Systems and Software Product Line Conference, SPLC 2022 - Proceedings*. Felfernig, A., Fuentes, L., Cleland-Huang, J., Assuncao, W. K. G., Assuncao, W. K. G., Falkner, A., Azanza, M., Luaces, M. A. R., Bhushan, M., Semini, L., Devroey, X., Werner, C. M. L., Seidl, C., Le, V.-M. & Horcas, J. M. (eds.). Association for Computing Machinery (ACM), Vol. A. p. 164-169 6 p.
12. **DirectDebug: Automated Testing and Debugging of Feature Models**
Le, V.-M., Felfernig, A., Uta, M., Benavides, D., Galindo, J. & Tran, T. N. T., 7 May 2021, *Proceedings - 2021 ACM/IEEE 43rd International Conference on Software Engineering: New Ideas and Emerging Results, ICSE-NIER 2021*. p. 81-85 5 p.
13. **A Conversion of Feature Models into an Executable Representation in Microsoft Excel**
Le, V.-M., Tran, T. & Felfernig, A., 4 Feb 2021, *Intelligent Systems in Industrial Applications : International Symposium on Methodologies for Intelligent Systems (ISMIS 2020)*. Stettinger, M., Leitner, G., Felfernig, A. & Ras, Z. W. (eds.). Springer, Cham, p. 153-168 16 p. (Studies in Computational Intelligence; vol. 949).

Selected Activities

1. **Journal of Intelligent Information Systems (Journal)**
Le, V. M. (Peer reviewer)
Mar 2025
2. **11th Joint Workshop on Interfaces and Human Decision Making for Recommender Systems, IntRS 2024 (Event)**
Le, V. M. (Peer reviewer)
Sept 2024
3. **Intelligent Techniques for Efficient Diagnostic Reasoning**
Le, V. M. (Speaker)
14 Jun 2024
4. **Expert Systems with Applications (Journal)**
Le, V. M. (Peer reviewer)
Apr 2024
5. **26th ACM International Systems and Software Product Line Conference**
Felfernig, A. (Chair), Stettinger, M. (Chair), Polat Erdeniz, S. (Chair), Tran, T. (Chair), Lubos, S. (Chair) & Le, V. M. (Chair)
12 Sept 2022 → 16 Sept 2022

Employment

- 2020 - 2024 University Assistant, Institute of Software Technology, Graz University of Technology, Graz, Austria
 2004 - 2020 Lecturer, Department of Management Information Systems, University of Economics, Hue University, Hue, Vietnam

Qualifications

- 2009 - 2011 Master of Computer Science, Institute for Informatics in French-speaking areas (IFI), Hanoi, Vietnam
 04.2011 - Master Internships, Catholic University of Louvain, Belgium
 10.2011
 2000 - 2004 Bachelor of Computer Science, College of Sciences, Hue University, Hue, Vietnam

Grants & Awards

- Internships Grant of Wallonie-Bruxelles International, Avril 2011-November 2011
- Agence Universitaire de la Francophonie (AUF) Grant for Master degree, 2008-2011
- Outstanding Student Award in Computer Science from the Ministry of Science and Technology of Vietnam, 2004