

Assoc Professor. Soon Lay Ki
Malaysia Sch of Information Technology
Email: Soon.LayKi@monash.edu



Biography

Dr. Soon graduated with a Ph.D (Engineering) in Web Engineering from Soongsil University, Korea. Her main research interests include applied natural language processing and data management. She teaches Databases, and Business Intelligence and Data Warehousing to both Masters and undergraduate students in Monash. Beyond classroom, Dr. Soon is also the Associate Head (Graduate Research) of School of Information Technology since November 2018. Prior to her tenure at Monash University Malaysia, Dr. Soon served as a Senior Lecturer at the Faculty of Computing and Informatics (FCI) within Multimedia University (MMU). She held the esteemed position of Deputy Dean (Research and Innovation) of FCI, MMU from March 2016 to August 2018. To date, she has graduated seven Ph.D and three Master's students. One of the Master's student under her main supervision was awarded MMU Best Master Thesis Award in 2015. In addition to her university roles, Dr. Soon also lent her expertise as a Research Fellow at Telekom Malaysia R&D, where she contributed significantly to the call data records database optimization project. Besides, Dr. Soon has conducted courses on Relational Database and NoSQL Database, enriching the skillsets of professionals beyond the academic realm.

Qualifications

Web Engineering, PhD, Towards a Semantically-Drive Focused Web Crawling, Soongsil University
Database, Master of Science, Translating Relational to Object-Oriented Database Conceptual Schema, Universiti Putra Malaysia (University Putra Malaysia)
Bachelor of Computer Science, Universiti Putra Malaysia (University Putra Malaysia)
2012 → ... Microsoft® Certified IT Professional , MCITP

Employment

Associate Professor

Malaysia Sch of Information Technology
MONASH UNIVERSITY
3 Sept 2018 → present

Research outputs

DialogXpert: Driving Intelligent and Emotion-Aware Conversations Through Online Value-Based Reinforcement Learning with LLM Priors

Rakib, T. B. A., Mehrish, A., Soon, L. K., Lim, W. H. & Poria, S., 2026, *Proceedings of the AAAI Conference on Artificial Intelligence*. Koenig, S., Jenkins, C. & E. Taylor, M. (eds.). Washington DC USA: Association for the Advancement of Artificial Intelligence (AAAI), p. 29967-29975 9 p. (Proceedings of the AAAI Conference on Artificial Intelligence; vol. 40, no. 36).

Epsilon: A Bring-Your-Own-Data Research Platform with Trusted Verification

Khajiev, N., Puussaar, A., Chu, L. S., Olivier, P., Soon, L. K. & Varghese, D., 2026, *SysTEX'26 - Proceedings of the 2026 9th Workshop on System Software for Trusted Execution*. Dushku, E. & Ghosn, A. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 78-85 8 p.

VERDICT: Visualized Evaluation and Reasoning with Dynamic IRAC-based Computational Thinking on Graph Structures

Kang, X., Qu, L., Varghese, D., Soon, L. K., Trakic, A. & Liu, Z., 2026, *Companion Proceedings of the 2026 International Conference on Intelligent User Interfaces*. Chen, L., Jacucci, G. & Renner DSataminr, A. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 103-105 3 p.

Automating IRAC analysis in Malaysian contract law using a semi-structured knowledge base

Kang, X., Qu, L., Soon, L.-K., Li, Z. & Trakic, A., 7 Jul 2025, (Accepted/In press) In: Artificial Intelligence and Law. 44 p.

Iterative Window Mean Filter: Thwarting Diffusion-Based Adversarial Purification

Wang, H., Sun, R., Chen, C., Xue, M., Soon, L. K., Wang, S. & Jin, Z., Mar 2025, In: IEEE Transactions on Dependable and Secure Computing. 22, 2, p. 1827-1844 18 p.

ACCESS: A Benchmark for Abstract Causal Event Discovery and Reasoning

Vo, V., Qu, L., Feng, T., Hua, Y., Kang, X., Fan, S., Dwyer, T., Soon, L. K. & Haffari, G., 2025, *NAACL 2025, Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics, Proceedings of the Conference Volume 1: Long Papers*. Chiruzzo, L., Ritter, A. & Wang, L. (eds.). Kerrville TX USA: Association for Computational Linguistics (ACL), p. 1049-1074 26 p.

Domain-Independent True Fact Identification from Knowledge Graph

Govindapillai, S., Soon, L. K. & Haw, S. C., 2025, In: International Journal on Informatics Visualization. 9, 3, p. 893-913 21 p.

Expanding Malaysian English Dataset with Human-in-the-Loop Annotation for Entity and Relation Recognition

Chanthran, M. R., Soon, L. K., Ong, H. F. & Selwaretnam, B., 2025, *Proceedings of 2025 International Conference on Asian Language Processing, IALP 2025*. Wang, L., Tong, R., Juan, S. F. S., Lu, Y., Tan, P. P., Saeed, S. & Dong, M. (eds.). Piscataway NJ USA: IEEE, Institute of Electrical and Electronics Engineers, p. 165-169 5 p.

Self-help digital mental health intervention in improving burnout and mental health outcomes among healthcare workers: A narrative review

Aye, L. M., Tan, M. M., Schaefer, A., Thuraijasingam, S., Geldsetzer, P., Soon, L. K., Reininghaus, U., Bärnighausen, T. & Su, T. T., 9 Sept 2024, In: Digital Health. 10, p. 1-19 19 p.

Bridging the Gap: Transfer Learning from English PLMs to Malaysian English

Raj, M., Soon, L. K., Fang, O. H. & Selwaretnam, B., 2024, *ACL 2024 - The 9th Workshop on Representation Learning for NLP (Repl4NLP-2024), Proceedings of the Workshop*. Zhao, C., Mosbach, M., Atanasova, P., Goldfarb-Tarrant, S., Hase, P., Hosseini, A., Elbayad, M., Pezzelle, S. & Mozes, M. (eds.). Kerrville TX USA: Association for Computational Linguistics (ACL), p. 69-77 9 p.

I2Match: Optimization Techniques on Subgraph Matching Algorithm Using Label Pair, Neighboring Label Index, and Jump-Redo Method

Cheng, C. Q., Wong, K. S. & Soon, L. K., 2024, *2024 International Conference on Electronics, Information, and Communication, ICEIC 2024*. Park, Y.-H. (ed.). Piscataway NJ USA: IEEE, Institute of Electrical and Electronics Engineers, 6 p.

Malaysian English News Decoded: A Linguistic Resource for Named Entity and Relation Extraction

Chanthran, M. R., Soon, L.-K., Ong, H. F. & Selwaretnam, B., 2024, *The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024) - Main Conference Proceedings*. Calzolari, N., Kan, M.-Y., Hoste, V., Lenci, A., Sakti, S. & Xue, N. (eds.). Paris France: European Language Resources Association (ELRA), p. 10999-11022 24 p.

ReNoVi: A Benchmark Towards Remediating Norm Violations in Socio-Cultural Conversations

Zhan, H., Li, Z., Kang, X., Feng, T., Hua, Y., Qu, L., Ying, Y., Chandra, M. R., Rosalin, K., Jureynolds, J., Sharma, S., Qu, S., Luo, L., Soon, L.-K., Azad, Z. S., Zukerman, I. & Haffari, G., 2024, *Findings of the Association for Computational Linguistics: NAACL 2024*. Duh, K., Gomez, H. & Bethard, S. (eds.). Kerrville TX USA: Association for Computational Linguistics (ACL), p. 3104-3117 14 p.

Cyberbullying detection based on emotion

Al-Hashedi, M., Soon, L. K., Goh, H. N., Lim, A. H. L. & Siew, E. G., 29 May 2023, In: IEEE Access. 11, p. 53907-53918 12 p.

Can ChatGPT perform reasoning using the IRAC method in analyzing legal scenarios like a lawyer?

Kang, X., Qu, L., Soon, L.-K., Trakic, A., Zhuo, T. Y., Emerton, P. C. & Grant, G., 2023, *The 2023 Conference on Empirical Methods in Natural Language Processing - Findings of the Association for Computational Linguistics: EMNLP 2023*. Tomeh, N., Fujita, A., Sun, A., Wang, B., Tong, R. & Cotterell, R. (eds.). Stroudsburg PA USA: Association for Computational Linguistics (ACL), p. 13900-13923 24 p.

Emotion-aware chatbot with cultural adaptation for mitigating work-related stress

Ng, S. H., Soon, L.-K. & Su, T. T., 2023, *Asian HCI Symposium'23 Proceedings*. Sari, E., Ghazali, M. & Tedjasaputra, A. B. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 41-50 10 p.

SocialDial: A benchmark for socially-aware dialogue system

Zhan, H., Li, Z., Wang, Y., Luo, L., Feng, T., Kang, X., Hua, Y., Qu, L., Soon, L.-K., Sharma, S., Zukerman, I., Semnani-Azad, Z. & Haffari, R., 2023, *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval*. P. Kato, M., Mothe, J. & Poblete, B. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 2712-2722 11 p.

CrudeOilNews: an annotated Crude Oil News corpus for event extraction

Lee, M., Soon, L. K., Siew, E. G. & Sugianto, L. F., 2022, *Language Resources and Evaluation Conference, LREC 2022*. Calzolari, N., Bechet, F., Blache, P., Choukri, K., Cieri, C., Declerck, T., Goggi, S., Isahara, H., Maegaard, B., Mariani, J., Mazo, H., Odijk, J. & Piperidis, S. (eds.). Paris France: European Language Resources Association (ELRA), p. 465-479 15 p.

Improved automated essay scoring using Gaussian Multi-Class SMOTE for dataset sampling

Tan, J. S., Tan, I. K. T., Soon, L. K. & Ong, H. F., 2022, *Proceedings of the 15th International Conference on Educational Data Mining*. Mitrovic, A. & Bosch, N. (eds.). Durham UK: International Educational Data Mining Society, 5 p. (Proceedings of the International Conference on Educational Data Mining).

An empirical study on Resource Description Framework reification for trustworthiness in knowledge graphs

Govindapillai, S., Soon, L.-K. & Haw, S.-C., 2021, In: *F1000Research*. 10, 9 p., 881.

Effective use of Graph Convolution Network and contextual sub-tree for commodity news event extraction

Lee, M., Soon, L. K. & Siew, E. G., 2021, *Proceedings of the Third Workshop on Economics and Natural Language Processing (ECONLP 2021)*. Hahn, U., Hoste, V. & Stent, A. (eds.). Stroudsburg PA USA: Association for Computational Linguistics (ACL), p. 69-81 13 p.

Improved centralized XML query processing using distributed query workload

Subramaniam, S., Haw, S. C. & Soon, L. K., 2021, In: *IEEE Access*. 9, p. 29127-29142 16 p.

A neural machine translation approach for translating Malay parliament Hansard to English text

Low, Y. Z., Soon, L.-K. & Sapai, S., 2020, *2020 International Conference on Asian Language Processing (IALP)*. Lu, Y., Dong, M., Soon, L.-K. & Gan, K. H. (eds.). Piscataway NJ USA: IEEE, Institute of Electrical and Electronics Engineers, p. 316-320 5 p.

LODeDeC: a framework for integration of entity relations from knowledge graphs

Govindapillai, S., Soon, L.-K. & Haw, S.-C., 2020, *15th Asia Information Retrieval Societies Conference, AIRS 2019 Hong Kong, China, November 7-9, 2019 Proceedings*. Wang, F. L., Xie, H., Lam, W., Sun, A., Ku, L.-W., Hao, T., Chen, W., Wong, T.-L. & Tao, X. (eds.). Cham Switzerland: Springer, p. 195-201 7 p. (Lecture Notes in Computer Science; vol. 12004).

Schema-agnostic entity matching using pre-trained language models

Teong, K. S., Soon, L. & Su, T. T., 2020, *Proceedings of the 29th ACM International Conference on Information & Knowledge Management*. Hauff, C., Curry, E. & Cudre Mauroux, P. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 2241-2244 4 p.

Popularity of university based on sentiment analysis in social network media

Koh, C. L., Haw, S. C. & Soon, L. K., Oct 2019, *International Conference on Advanced Science, Engineering and Technology 2019*. Hwee Ling, W. (ed.). 3S ed. Bhopal India: Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP), Vol. 8. p. 25-30 6 p. 6. (International Journal of Recent Technology and Engineering).

Comparing DBpedia, Wikidata, and YAGO for web information retrieval

Pillai, S. G., Soon, L.-K. & Haw, S.-C., 2019, *Intelligent and Interactive Computing - Proceedings of IIC 2018*. Piuri, V., Emilia Balas, V., Borah, S. & Sakinah Syed Ahmad, S. (eds.). Singapore Singapore: Springer, p. 525-535 11 p. (Lecture Notes in Networks and Systems; vol. 67).

Cyberbullying detection using deep learning and word embeddings: an empirical study

Al-Hashedi, M., Soon, L. K. & Goh, H. N., 2019, *Proceedings of the 2019 2nd International Conference on Computational Intelligence and Intelligent Systems (CIIS 2019)*. C.C. Cheung, R. & KDV Yarlagadda, P. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 17-21 5 p.

Performance evaluation of XML query processing in centralized and distributed environment

Subramaniam, S., Haw, S.-C. & Soon, L.-K., 2019, *Proceedings of the 2019 2nd International Conference on Computational Intelligence and Intelligent Systems (CIIS 2019)*. C.C. Cheung, R. & KDV Yarlagadda, P. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 129-133 5 p.

An exploratory study on Latent-Dirichlet Allocation models for aspect identification on short sentences

Bakar, A. A., Soon, L.-K. & Goh, H.-N., 2018, *Computational Science and Technology: 4th ICCST 2017, Kuala Lumpur, Malaysia, 29–30 November, 2017*. Alfred, R., Iida, H., Ag. Ibrahim, A. A. & Lim, Y. (eds.). Singapore Singapore : Springer, p. 314-323 10 p. (Lecture Notes in Electrical Engineering; vol. 488).

Leveraging part-of-speech tagging for sentiment analysis in short texts and regular texts

Khong, W.-H., Soon, L.-K., Goh, H.-N. & Haw, S.-C., 2018, *Semantic Technology: 8th Joint International Conference, JIST 2018 Awaji, Japan, November 26–28, 2018 Proceedings*. Ichise, R., Lecue, F., Kawamura, T., Zhao, D., Muggleton, S. & Kozaki, K. (eds.). Cham Switzerland : Springer, p. 182-197 16 p. (Lecture Notes in Computer Science ; vol. 11341).

Social Media analytics for dengue monitoring in Malaysia

Kannan, R., Govindasamy, M. A., Soon, L.-K. & Ramakrishnan, K., 2018, *Proceedings - 8th IEEE International Conference on Control System, Computing and Engineering (ICCSC 2018)*. Adnan, R. (ed.). Piscataway NJ USA: IEEE, Institute of Electrical and Electronics Engineers, p. 105-108 4 p.

Using the Reddit corpus for cyberbully detection

Bin Abdur Rakib, T. & Soon, L.-K., 2018, *10th Asian Conference, ACIIDS 2018 Dong Hoi City, Vietnam, March 19–21, 2018 Proceedings, Part I*. Nguyen, N. T., Hoang, D. H., Hong, T.-P., Pham, H. & Trawinski, B. (eds.). Cham Switzerland: Springer, p. 180-189 10 p. (Lecture Notes in Computer Science; vol. 10751).

Meaning preservation in example-based machine translation with structural semantics

Chua, C. C., Lim, T. Y., Soon, L. K., Tang, E. K. & Ranaivo-Malançon, B., 15 Jul 2017, In: *Expert Systems with Applications*. 78, p. 242-258 17 p.

QTwig: A structural join algorithm for efficient query retrieval based on region-based labeling

Subramaniam, S., Haw, S.-C., Soon, L.-K. & Koong, K.-L., Mar 2017, In: *International Journal of Software Engineering and Knowledge Engineering*. 27, 2, p. 321-342 22 p.

Crawling social media to create morphological resource of under-resourced language: Melanau language

Saeed, S., Bali, R. M., Soon, L. K. & Lim, T. Y., 2017, *2017 2nd International Conference on Information in Business and Technology Management (I2BM)*. Ibrahim, Z. (ed.). 11 ed. USA: American Scientific Publishers, Vol. 23. p. 11503-11507 5 p. (Advanced Science Letters).

DGReLab⁺: improving XML path query processing by avoiding buffering irrelevant results

Subramaniam, S., Haw, S.-C. & Soon, L.-K., 2017, *7th International Conference on Advances and Computing & Communications, ICACC-2017*. Gahegan, M. & Paul Mulerikkal, J. (eds.). Elsevier, Vol. 115. p. 804-811 8 p. (Procedia Computer Science).

Learning to extract domain-specific relations from complex sentences

Tan, S. S., Lim, T. Y., Soon, L. K. & Tang, E. K., 30 Oct 2016, In: Expert Systems with Applications. 60, p. 107-117 11 p.

RL-Frag: a framework for query processing over fragmented XML data stream

Subramaniam, S., Haw, S. C., Soon, L. K. & Koong, K. L., 2016, *International Conference on Computer Science, Engineering and Technology (COMCSET 2016)*. Musa Jaber, M. (ed.). 5 ed. India: Indian Society for Education and Environment, Vol. 11. p. 289-294 6 p. 211. (International Journal of Soft Computing).

Structural analyses of Malaysian Web and host graphs

Tee, J. Y. J., Soon, L. K. & Ting, C. Y., 19 Oct 2015, *Proceedings - 2015 International Conference on Future Internet of Things and Cloud, FiCloud 2015 and 2015 International Conference on Open and Big Data, OBD 2015*. Younas, M., Awan, I. & Mecella, M. (eds.). IEEE, Institute of Electrical and Electronics Engineers, p. 443-450 8 p.

ReLab: a subtree based labeling scheme for efficient XML query processing

Subramaniam, S., Haw, S. C. & Soon, L. K., 2 Sept 2015, *ISTT 2014 - 2014 IEEE 2nd International Symposium on Telecommunication Technologies*. Ismail, M. & Ramli, N. (eds.). IEEE, Institute of Electrical and Electronics Engineers, p. 121-125 5 p.

Automatic discovery of person-related named-entity in news articles based on verb analysis

Goh, H. N., Soon, L. K. & Haw, S. C., 1 Apr 2015, In: Multimedia Tools and Applications. 74, 8, p. 2587-2610 24 p.

A comparative study of statistical and natural language processing techniques for sentiment analysis

Khong, W. H., Soon, L. K. & Goh, H. N., 2015, In: Jurnal Teknologi. 77, 18, p. 155-161 7 p.

Automatic acquisition of morphological resources for Melanau language

Saee, S., Soon, L. K., Lim, T. Y., Ranaivo-Malancon, B., Juk, J. & Tang, E. K., 3 Dec 2014, *Proceedings of the International Conference on Asian Language Processing 2014, IALP 2014*. Dong, M., Lu, Y., Banchs, R. E. & Ranaivo-Malancon, B. (eds.). IEEE, Institute of Electrical and Electronics Engineers, p. 203-206 4 p.

Learning the mapping rules for sentiment analysis

Tan, S. S., Soon, L. K., Lim, T. Y., Tang, E. K. & Loo, C. K., 3 Nov 2014, *Web-KR '14: Proceedings of the 5th International Workshop on Web-scale Knowledge Representation Retrieval & Reasoning*. p. 19-22 4 p.

Learning to match heterogeneous structures using partially labeled data

Tan, S. S., Lim, T. Y., Soon, L. K. & Tang, E. K., 3 Nov 2014, *Web-KR '14: Proceedings of the 5th International Workshop on Web-scale Knowledge Representation Retrieval & Reasoning*. p. 45-48 4 p.

Lexicon+TX: rapid construction of a multilingual lexicon with under-resourced languages

Lim, L. T., Soon, L. K., Lim, T. Y., Tang, E. K. & Ranaivo-Malançon, B., 1 Sept 2014, In: Language Resources and Evaluation. 48, 3, p. 479-492 14 p.

XDMA: a dual indexing and mutual summation based keyword search algorithm for XML Data Bases

Selvaganesan, S., Haw, S. C. & Soon, L. K., 16 May 2014, In: International Journal of Software Engineering and Knowledge Engineering. 24, 4, p. 591-615 25 p.

Effective XML keyword search using dual indexing technique

Selvaganesan, S., Haw, S. C. & Soon, L. K., 2014, In: Information Technology Journal. 13, 4, p. 643-651 9 p.

Natural language processing for sentiment analysis: an exploratory analysis on tweets

Chong, W. Y., Selvaretnam, B. & Soon, L. K., 2014, *Proceedings - 2014 4th International Conference on Artificial Intelligence with Applications in Engineering and Technology, ICAIET 2014*. Al-Dabass, D., Saad, I., Mohamad, K. A. & Hijazi, M. H. A. (eds.). IEEE, Institute of Electrical and Electronics Engineers, p. 212-217 6 p.

Automatic dominant character identification in fables based on verb analysis - Empirical study on the impact of anaphora resolution

Goh, H. N., Soon, L. K. & Haw, S. C., Dec 2013, In: Knowledge-Based Systems. 54, p. 147-162 16 p.

Context-dependent multilingual lexical lookup for under-resourced languages

Lim, L. T., Soon, L. K., Lim, T. Y., Tang, E. K. & Ranaivo-Malançon, B., 2013, *Short Papers*. Association for Computational Linguistics (ACL), p. 294-299 6 p.

Semi-automatic acquisition of two-level morphological rules for Iban language

Saee, S., Soon, L. K., Lim, T. Y., Ranaivo-Malançon, B. & Tang, E. K., 2013, *Computational Linguistics and Intelligent Text Processing - 14th International Conference, CICLing 2013, Proceedings*. PART 1 ed. p. 174-188 15 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 7816 LNCS, no. PART 1).

Automatic identification of protagonist in fairy tales using verb

Goh, H. N., Soon, L. K. & Haw, S. C., 2012, *Advances in Knowledge Discovery and Data Mining - 16th Pacific-Asia Conference, PAKDD 2012, Proceedings*. PART 2 ed. p. 395-406 12 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 7301 LNAI, no. PART 2).

Benchmarking the performance of support vector machines in classifying web pages

Wong, W. P., Chan, K. X. & Soon, L. K., 2012, *Knowledge Technology - Third Knowledge Technology Week, KTW 2011, Revised Selected Papers*. p. 375-378 4 p. (Communications in Computer and Information Science; vol. 295 CCIS).

Clustering users in micro blogging social networks using probabilistic topic modeling - A framework

Dolatabadi, H., Soon, L. K., Shirazi, M. N. & Mohammadi, M., 2012, *Proceedings - 12th International Conference on Computational Science and Its Applications, ICCSA 2012*. p. 113-116 4 p.

Credit card fraud detection: personalized or aggregated model

Alowais, M. I. & Soon, L. K., 2012, *Proceedings - 2012 3rd FTRA International Conference on Mobile, Ubiquitous, and Intelligent Computing, MUSIC 2012*. p. 114-119 6 p.

Finding web document associations using frequent pairs of adjacent words

Tee, J. Y. J., Soon, L. K. & Ranaivo-Malançon, B., 2012, *Knowledge Technology - Third Knowledge Technology Week, KTW 2011, Revised Selected Papers*. p. 360-363 4 p. (Communications in Computer and Information Science; vol. 295 CCIS).

From raw text to morphological rules for Iban morphological analyser

Saee, S., Soon, L. K., Lim, T. Y., Ranaivo-Malançon, B. & Tang, E. K., 2012, *2012 International Conference on Asian Language Processing*. p. 21-24 4 p.

Tracing similarity within strongly connected components for intelligent web crawling

Tee, Y. J. & Soon, L. K., 2012, In: International Journal of Smart Home. 6, 2, p. 89-94 6 p.

VAHA: verbs associate with human activity - a study on fairy tales

Goh, H. N., Soon, L. K. & Haw, S. C., 2012, *Advanced Research in Applied Artificial Intelligence - 25th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2012, Proceedings*. p. 313-322 10 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 7345 LNAI).

Web crawler with URL signature - a performance study

Soon, L. K., Ku, Y. E. & Lee, S. H., 2012, *Proceedings - 2012 4th Conference on Data Mining and Optimization, DMO 2012*. p. 127-130 4 p. (Conference on Data Mining and Optimization).

WebSum: enhanced SumBasic algorithm for Web site summarization

Tee, J. Y. J., Soon, L. K. & Ting, C. Y., 2012, *Proceedings - 2012 4th Conference on Data Mining and Optimization, DMO 2012*. p. 137-142 6 p. (Conference on Data Mining and Optimization).

Automatic ontology construction in fiction-based domain

Goh, H. N., Kiu, C. C., Soon, L. K. & Ranaivo-Malançon, B., Dec 2011, In: *International Journal of Software Engineering and Knowledge Engineering*. 21, 8, p. 1147-1167 21 p.

An empirical study on harmonizing classification precision using IE patterns

Soon, L. K., Hwang, K. B. & Lee, S. H., 2010, *2nd International Conference on Software Engineering and Data Mining, SEDM 2010*. p. 251-256 6 p.

Classifying web pages using information extraction patterns - Preliminary results and findings

Soon, L. K. & Lee, S. H., 2010, *Proceedings of the 6th International Conference on Signal Image Technology and Internet Based Systems, SITIS 2010*. p. 195-202 8 p.

Extended balancing ontological and operational factors in refining multiagent neighborhood using ACO

Yean, L. C., Ming, L. T. & Soon, L. K., 2010, *Proceedings 2010 International Symposium on Information Technology - System Development and Application and Knowledge Society, ITSIM'10*. p. 1398-1400 3 p. (Proceedings 2010 International Symposium on Information Technology - System Development and Application and Knowledge Society, ITSIM'10; vol. 3).

Enhancing URL normalization using metadata of web pages

Soon, L. K. & Lee, S. H., 2008, *Proceedings of the 2008 International Conference on Computer and Electrical Engineering, ICCEE 2008*. p. 331-335 5 p.

Identifying equivalent URLs using URL signatures

Soon, L. K. & Lee, S. H., 2008, *SITIS 2008 - Proceedings of the 4th International Conference on Signal Image Technology and Internet Based Systems*. p. 203-210 8 p.

An empirical study of similarity search in stock data

Soon, L. K. & Lee, S. H., 2007, *Integrating Artificial Intelligence and Data Mining - Proceeding of the 2nd International Workshop on Integrating Artificial Intelligence and Data Mining, AIDM 2007*. Ong, K.-L., Gao, J. & Li, W. (eds.). Australian Computer Science Society, (Conferences in Research and Practice in Information Technology Series; vol. 84).

Explorative data mining on stock data -experimental results and findings

Soon, L. K. & Lee, S. H., 2007, *Advanced Data Mining and Applications - Third International Conference, ADMA 2007, Proceedings*. Springer, p. 562-569 8 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 4632 LNAI).

Prizes

ITEX'24 Silver Award for the invention of "MOBOT" Mobile Application of a conversational Agent for Mental Health

Su, T. T. (Recipient), Thuraiarasingam, S. (Recipient), Lay Ki, S. (Recipient), Aye, L. M. (Recipient), Omar, N. S. S. (Recipient) & Kai Gin, T. (Recipient), 17 May 2024

Silver Medal (Malaysia Technology Expo 2023) for innovation of "MoBOT, A Self-Help Digital Mental Health Intervention Conversational Agent

Su, T. T. (Recipient), Lay Ki, S. (Recipient), Thuraiarasingam, S. (Recipient), Aye, L. M. (Recipient), Omar, N. S. S. (Recipient) & Kai Gin, T. (Recipient), 20 Oct 2023

The Incubator Grant: Bolster Category

Watterson, J. (Recipient), Su, T. T. (Recipient), Boyle, J. (Recipient), Olivier, P. (Recipient), Keng, S.-L. (Recipient), Jones, E. (Recipient), Maisarah, S. (Recipient), Angela, N. (Recipient), Jayanthi, T. (Recipient), Lay Ki, S. (Recipient), Selva Raja, D. B. R. (Recipient), Tan, S. S. (Recipient), Lim, S. (Recipient), Yap, M. (Recipient), Leder, K. (Recipient), McCaffrey, T. (Recipient) & Warren, N. (Recipient), 15 Nov 2023

Projects

A Novel Context-Aware Model for Relation Extractions from Conversational Texts using Graph Convolutional Networks

Lay Ki, S. (Primary Chief Investigator (PCI)), Wong, K. S. (Chief Investigator (CI)), Lim, I. (Chief Investigator (CI)), Chun Yong, C. (Chief Investigator (CI)) & Tan, I. K. T. (Chief Investigator (CI))

1/09/22 → 28/02/25

Co-designing an Inclusive Framework for Consumer and Community Involvement in Precision Diabetes Medicine

Lim, S. (Primary Chief Investigator (PCI)), Ahmad, B. (Chief Investigator (CI)), Boyle, J. (Chief Investigator (CI)), Ng, A. (Chief Investigator (CI)), Su, T. T. (Chief Investigator (CI)), Misra, S. (Chief Investigator (CI)), Alshehri, T. (Chief Investigator (CI)), Mariapun, J. (Chief Investigator (CI)), Lay Ki, S. (Chief Investigator (CI)), Angela, N. (Chief Investigator (CI)), Franks, P. (Chief Investigator (CI)), Hivert, M. F. (Chief Investigator (CI)), Vesco, K. (Chief Investigator (CI)), Josefson, J. (Chief Investigator (CI)), Semnani-Azad, Z. (Chief Investigator (CI)), Grieger, J. A. (Chief Investigator (CI)), Vethakkan, S. R. (Chief Investigator (CI)), Holman, D. (Chief Investigator (CI)) & Li, S. (Chief Investigator (CI))

Monash University – Internal University Contribution

1/01/26 → 31/12/26

Consumer and Community Involvement for Precision Medicine in Diabetes

Ahmad, B. (Primary Chief Investigator (PCI)), Lim, S. (Primary Chief Investigator (PCI)), Alshehri, T. (Chief Investigator (CI)), Lay Ki, S. (Chief Investigator (CI)), Angela, N. (Chief Investigator (CI)), Misra, S. (Chief Investigator (CI)), Boyle, J. (Chief Investigator (CI)), Mariapun, J. (Chief Investigator (CI)) & Su, T. T. (Chief Investigator (CI))

1/01/26 → 31/12/26

Enhancing Deaf Healthcare Access and Outcomes through Inclusive Health Research

Palanisamy, U. (Primary Chief Investigator (PCI)), Wong, K. S. (Chief Investigator (CI)), Lay Ki, S. (Chief Investigator (CI)), Olivier, P. (Chief Investigator (CI)), Chong, A. A. V. Y. (Chief Investigator (CI)), Appalasamy, J. R. (Chief Investigator (CI)), Selvaraj, A. (Chief Investigator (CI)), Ramadas, A. (Chief Investigator (CI)), Thanzami, V. (Chief Investigator (CI)), Alshehri, T. (Chief Investigator (CI)) & Watterson, J. (Chief Investigator (CI))

1/08/25 → 31/07/29

Fake News Detection on Social Networking Services using Tacit Knowledge Graph with User Reliability Estimates

Lim, I. (Primary Chief Investigator (PCI)), Lay Ki, S. (Chief Investigator (CI)), Eu Gene, S. (Chief Investigator (CI)), Carman, M. J. (Chief Investigator (CI)) & Wong, S. M. (Chief Investigator (CI))

7/09/21 → 6/09/25

Wage: Healthy Working environments for all ages: An evidence-driven framework

Wong, K. S. (Primary Chief Investigator (PCI)), Lay Ki, S. (Chief Investigator (CI)), Lim, C. H. (Chief Investigator (CI)), Chun Yong, C. (Chief Investigator (CI)), Watterson, J. (Chief Investigator (CI)), Olivier, P. (Chief Investigator (CI)), Gonzalez, V. (Partner Investigator (PI)), Sanchis, M. (Partner Investigator (PI)), Carnide, F. (Chief Investigator (CI)), Pape, L. (Partner Investigator (PI)), Merhi Auar, R. (Chief Investigator (CI)), Roman-Liu, D. (Chief Investigator (CI)), Cairney, P. (Chief Investigator (CI)) & Alshehri, T. (Chief Investigator (CI))

1/12/23 → 30/11/27

Epsilon: Inclusive Research Infrastructure: SEACO as a Platform for Participatory Observation

Lay Ki, S. (Primary Chief Investigator (PCI)), Chun Yong, C. (Chief Investigator (CI)), Watterson, J. (Chief Investigator (CI)), Su, T. T. (Chief Investigator (CI)), Varghese, D. (Chief Investigator (CI)), McNaney, R. (Chief Investigator (CI)), Kirkham, R. (Chief Investigator (CI)) & Abdulgalimov, D. (Chief Investigator (CI))

1/12/22 → 31/12/24

IndigiSEA - Indigenous Digital Futures for Southeast Asia

Lay Ki, S. (Primary Chief Investigator (PCI)) & Wijaya, D. (Chief Investigator (CI))

1/12/26 → 31/12/26

WHinc: from Community Observatory to Women's Health INCubator

Watterson, J. (Primary Chief Investigator (PCI)), Su, T. T. (Primary Chief Investigator (PCI)), Olivier, P. (Chief Investigator (CI)), Jones, E. (Chief Investigator (CI)), Maisarah, S. (Chief Investigator (CI)), Angela, N. (Chief Investigator (CI)), Jayanthi, T. (Chief Investigator (CI)), Lay Ki, S. (Chief Investigator (CI)), Selva Raja, D. B. R. (Chief Investigator (CI)), Tan, S. S. (Chief Investigator (CI)), Lim, S. (Primary Chief Investigator (PCI)), Kulkarni, J. (Chief Investigator (CI)),

Alshehri, T. (Chief Investigator (CI)) & Boyle, J. (Chief Investigator (CI))
1/01/24 → 30/06/26