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Education

PhD, Tokyo Institute of Technology, Japan, 1996
Doctorate of Engineering in Computer Science

MSc, University of Minnesota, United States of America, 1988
MSc in Computer Science (Summa Cum Laude)

Bachelor of Science, University of Minnesota, United States of America, 1986
BSc in Computer Science (Summa Cum Laude)

Academic Appointments

Professor of Information Systems, School of Information Systems, SMU, Jan 2014 - Present

Associate Professor of Information Systems, School of Information Systems, SMU, Jul 2005 - Dec 2013

Assistant Professor, School of Computing, National University of Singapore, Singapore, Sep 1999 - Jun 2005

Member of Research Staff, Kent Ridge Digital Labs (now Infocomms Institute of Research), Singapore, Oct 1996 - Sep 1999

Member of Technical Staff, Information Technology Institute, National Computer Board, Singapore, Jan 1991 - Jan 1993

Full-time National Service, invited as Part-time Tutor, School of Computing, National University of Singapore, Singapore, Oct 1988 - Jan 1991

Teaching Assistant, Department of Computer Science, University of Minnesota, Minneapolis, USA, United States of America, Jun 1987 - Jun 1988

Academic Administrative Positions

Director, Fujitsu-SMU Urban Computing & Engineering (UNiCEN) Corp. Lab, School of Information Systems, SMU, Jul 2014 - Present

Deputy Director, Living Analytics Research Centre, SMU, Apr 2011 - Jun 2015

Director, Information Systems (Adjunct), The Logistics Institute Asia Pacific, National University of Singapore, Singapore, Jul 2005 - Dec 2012

Director, Defense Logistics, The Logistics Institute Asia Pacific, National University of Singapore, Singapore, Apr 2001 - Jun 2005

Other Positions Held

Specially Appointed Professor, Institute of Innovative Research, Tokyo Institute of Technology, Japan, Dec 2019 - Present

Visiting, Ningbo Institute of Technology, Zhejiang University, China, Jun 2014

Visiting, Xiamen University, China, Jul 2013

Visiting, Tokyo Institute of Technology, Japan, Feb 2013 - Mar 2013

Visiting, Institute of Computing Technologies, Chinese Academy of Sciences, China, Dec 2012

Visiting, Wharton Business School, University of Pennsylvania, United States of America, Nov 2010 - Dec 2010

Consultant, iFusion Pte Ltd, Singapore, Sep 1999 - Sep 2001

Visiting, Graduate School of Informatics, Kyoto University, Japan, Dec 2000 - Jan 2001

Visiting, Max Planck Institute for Informatics, Germany, Jun 1996 - Sep 1996

Visiting Scholar, AI Lab, Fujitsu Laboratories Limited, Japan, Jan 1993 - Jan 1996

Awards and Honors

Best Paper Award Honorary Mention, ACM Conference on CSCW, 2016

Best Paper Award Runner Up, Learning and Intelligent Optimization Conference LION, 2015

Best Paper Award (Honorable Mention), IEEE International Conference on IEEM, 2011

Singapore Management University Lee Kwan Yew Research Fellowship, Singapore Management University, 2008

Defense Technology Prize (individual category) Nomination, Defense Science Technology Agency (DSTA), 2007

National IQC Star Award (team category), Ministry of Defense, 2006

Japan-Singapore Promotion of Science (JSPS) Fellowship, Japan-Singapore Promotion of Science (JSPS), 2000

Infocomm Development Authority Postgraduate Scholarship, Infocomm Development Authority, 1993

National Computer Board Undergraduate Scholarship, National Computer Board (i.e. IMDA today), 1984

RESEARCH

Research Interests

- Applied Optimization for problems in Logistics, Supply chain management, e-Commerce
- AI Planning and Scheduling
- Interface of AI and Operations Research
- Autonomous Agents and Multi-agent systems
- Analytics for urban management and service improvement
- Algorithm engineering for combinatorial optimization
- Quantum and quantum-inspired computing for combinatorial optimization

Publications

Journal Articles [Refereed]

- Distributed Gibbs: A linear-space sampling-based DCOP algorithm, by NGUYEN, Duc Thien; YEOH, William; LAU, Hoong Chuin; ZIVAN, Roie. (2019). *Journal of Artificial Intelligence Research*, 64 705-748.
<https://doi.org/10.1613/jair.1.11400> (Published)
- A state aggregation approach for stochastic multiperiod last-mile ride-sharing problems, by AGUSSURJA, Lucas; CHENG, Shih-Fen; LAU, Hoong Chuin. (2019). *Transportation Science*, 53 (1), 148-166.
<https://doi.org/10.1287/trsc.2018.0840> (Published)
- An artificial bee colony-based hybrid approach for waste collection problem with midway disposal pattern, by WEI Qu, GUO Zhaoxia, LAU Hoong Chuin, HE Zhenggang. (2019). *Applied Soft Computing*, 76, 629-637.
- ADOPT: Combining parameter tuning and adaptive operator ordering for solving a class of orienteering problems, by GUNAWAN, Aldy; LAU, Hoong Chuin; LU, Kun. (2018). *Computers and Industrial Engineering*, 121 82-96.
<https://doi.org/10.1016/j.cie.2018.05.016> (Published)
- Obfuscation at-source: Privacy in context-aware mobile crowd-sourcing, by KANDAPPU, Thivya; MISRA, Archan; CHENG, Shih-Fen; TANDRIANSYAH, Randy; LAU, Hoong Chuin. (2018). *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 2 (1), 16: 1-24. <https://doi.org/10.1145/3191748> (Published)
- Scalable urban mobile crowdsourcing: Handling uncertainty in worker movement, by CHENG, Shih-Fen; CHEN, Cen; KANDAPPU, Thivya; LAU, Hoong Chuin; MISRA, Archan; JAIMAN, Nikita; TANDRIANSYAH, Randy; KOH, Desmond. (2018). *ACM Transactions on Intelligent Systems and Technology*, 9 (3), 1-24. <https://doi.org/10.1145/3078842> (Published)
- Risk-sensitive stochastic orienteering problems for trip optimization in urban environments, by VARAKANTHAM, Pradeep; KUMAR, Akshat; LAU, Hoong Chuin. (2018). *ACM Transactions on Intelligent Systems and Technology*, 9 (3), 1-25. <https://doi.org/10.1145/3080575> (Published)
- Well-tuned algorithms for the team orienteering problem with time windows, by GUNAWAN, Aldy; LAU, Hoong Chuin; VANSTEENWEGEN, Pieter; LU, Kun. (2017). *Journal of the Operational Research Society*, 68 (8), 861-876.
<https://doi.org/10.1057/s41274-017-0244-1> (Published)
- Local Gaussian processes for efficient fine-grained traffic speed prediction, by LE, Truc Viet; OENTARYO, Richard; LIU, Siyuan; LAU, Hoong Chuin. (2017). *IEEE Transactions on Big Data*, 3 (2), 194-207.
<https://doi.org/10.1109/TBDATA.2016.2620488> (Published)
- Orienteering problem: A survey of recent variants, solution approaches and applications, by GUNAWAN, Aldy; LAU, Hoong Chuin; VANSTEENWEGEN, Pieter. (2016). *European Journal of Operational Research*, 255 (2), 315-332.
<http://doi.org/10.1016/j.ejor.2016.04.059> (Published)
- Achieving economic and environmental sustainabilities in urban consolidation center with bicriteria auction, by HANDOKO, Stephanus Daniel; LAU, Hoong Chuin; CHENG, Shih-Fen. (2016). *IEEE Transactions on Automation Science and Engineering*, 13 (4), 1471-1479. <http://doi.org/10.1109/TASE.2016.2563459> (Published)
- Patrol scheduling in urban rail network, by LAU, Hoong Chuin; YUAN, Zhi; GUNAWAN, Aldy. (2016). *Annals of Operations Research*, 239 (1), 317-342. <http://doi.org/10.1007/s10479-014-1648-9> (Published)
- Robust execution strategies for project scheduling with unreliable resources and stochastic durations, by FU, Na; LAU, Hoong Chuin; VARAKANTHAM, Pradeep. (2015). *Journal of Scheduling*, 18 (6), 607-622.
<http://doi.org/10.1007/s10951-015-0425-1> (Published)
- A hybrid heuristic algorithm for the 2D variable-sized bin packing problem, by HONG, Shaohui; ZHANG, Defu; LAU, Hoong Chuin.; ZENG, XiangXiang; SI, Yain-Whar. (2014). *European Journal of Operational Research*, 238 (1), 95-103.
<http://dx.doi.org/10.1016/j.ejor.2014.03.049> (Published)
- Multi-agent orienteering problem with time-dependent capacity constraints, by CHEN, Cen; CHENG, Shih-Fen; LAU, Hoong Chuin. (2014). *Web Intelligence and Agent Systems*, 12 (4), 347-358. <https://doi.org/10.3233/WIA-140304> (Published)
- Patrol scheduling in an urban rail network, by LAU Hoong Chuin; YUAN, Zhi; GUNAWAN Aldy. (2014). *Annals of Operations Research*, 239 (1), 1-26. <http://dx.doi.org/10.1007/s10479-014-1648-9> (Published)

- Clustering of search trajectory and its application to parameter tuning, by Lindawati, Linda; LAU, Hoong Chuin; LO, David. (2013). *Journal of the Operational Research Society*, 64 (12), 1742-1752.
<http://doi.org/10.1057/jors.2012.167> (Published)
- Master physician scheduling problem, by GUNAWAN, Aldy; LAU, Hoong Chuin. (2013). *Journal of the Operational Research Society*, 64 (3), 410-425. <http://doi.org/10.1057/jors.2012.48> (Published)
- Robust distributed scheduling via time-period aggregation, by CHENG, Shih-Fen; TAJAN, John; LAU, Hoong Chuin. (2012). *Web Intelligence and Agent Systems*, 10 (3), 305-318. <http://doi.org/10.3233/WIA-2012-0248> (Published)
- Robust local search for solving RCPSP/max with durational uncertainty, by FU, Na; LAU, Hoong Chuin; VARAKANTHAM, Pradeep; XIAO, Fei. (2012). *Journal of Artificial Intelligence Research*, 43 43-86.
<http://www.jair.org/papers/paper3424.html> (Published)
- Allocating resources in multiagent flowshops with adaptive auctions, by LAU, Hoong Chuin; ZHAO, Zhengyi; GE, Sam Shuzhi; LEE, Thong Heng. (2011). *IEEE Transactions on Automation Science and Engineering*, 8 (1), 732-743.
<http://doi.org/10.1109/TASE.2011.2160536> (Published)
- Periodic resource reallocation in two-echelon repairable item inventory systems, by LAU, Hoong Chuin; PAN, Jie; SONG, Huawei. (2010). *IEEE Transactions on Automation Science and Engineering*, 7 (3), 474-485.
<http://doi.org/10.1109/TASE.2010.2040827> (Published)
- The price of stability in selfish scheduling games, by AGUSSURJA, Lucas; LAU, Hoong Chuin. (2009). *Web Intelligence and Agent Systems*, 7 (4), 321-332. <http://doi.org/10.3233/WIA-2009-0171> (Published)
- Optimizing service systems based on application-level QoS, by LIANG, Qianhui; WU, Xindong; LAU, Hoong Chuin. (2009). *IEEE Transactions on Services Computing*, 2 (2), 108-121. <http://doi.org/10.1109/TSC.2009.13> (Published)
- Integrated resource allocation and scheduling in a bidirectional flowshop with multimachine and COS constraints, by LAU, Hoong Chuin; ZHAO, Zhengyi; GE, Shuzhi Sam. (2009). *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews*, 39 (2), 190-200. <http://doi.org/10.1109/TSMCC.2008.2007500> (Published)
- Efficient algorithms for machine scheduling problems with earliness and tardiness penalties, by FENG, Guang; LAU, Hoong Chuin. (2008). *Annals of Operations Research*, 159 (1), 83-95. <http://doi.org/10.1007/s10479-007-0284-z> (Published)
- Multi-echelon repairable item inventory system with limited repair capacity under nonstationary demands, by LAU, Hoong Chuin; SONG, Huawei. (2008). *International Journal of Inventory Research*, 1 (1), 67-92.
<http://dx.doi.org/10.1504/IJIR.2008.019209> (Published)
- Real-time supply chain control via multi-agent adjustable autonomy, by LAU, Hoong Chuin; Agussurja, Lucas; Thangarajoo, Ramesh. (2007). *Computers and Operations Research*, 35 (11), 3452-3464.
<http://doi.org/10.1016/j.cor.2007.01.027> (Published)
- A software framework for fast prototyping of meta-heuristics hybridization, by LAU, Hoong Chuin; Wan, W. C.; Halim, S.; Toh, K. Y.. (2007). *International Transactions in Operational Research*, 14 (2), 123-141.
<http://dx.doi.org/10.1111/j.1475-3995.2007.00578.x> (Published)
- Finding a length-constrained maximum-sum or maximum-density subtree and its application to logistics, by LAU, Hoong Chuin; NGO, Trung Hieu; NGUYEN, Bao Nguyen. (2006). *Discrete Optimization*, 3 (4), 385-391.
<https://doi.org/10.1016/j.disopt.2006.06.002> (Published)
- Evaluation of time-varying availability in multi-echelon spare parts systems with passivation, by LAU, Hoong Chuin; SONG, Huawei; SEE, Chuen Teck; CHENG, Siew Yen. (2006). *European Journal of Operational Research*, 170 (1), 91-105. <http://doi.org/10.1016/j.ejor.2004.06.022> (Published)
- A periodic-review inventory model with application to the continuous-review obsolescence problem, by SONG, Yuyue; LAU, Hoong Chuin. (2004). *European Journal of Operational Research*, 159 (1), 110-120.
[http://doi.org/10.1016/s0377-2217\(03\)00399-0](http://doi.org/10.1016/s0377-2217(03)00399-0) (Published)
- Vehicle routing problem with time windows and a limited number of vehicles, by LAU, Hoong Chuin; SIM, Melvyn; TEO, Kwong Meng. (2003). *European Journal of Operational Research*, 148 (3), 559-569.
[http://dx.doi.org/10.1016/s0377-2217\(02\)00363-6](http://dx.doi.org/10.1016/s0377-2217(02)00363-6) (Published)

- Pickup and delivery problem with time windows: Algorithms and test case generation, by LAU, Hoong Chuin; LIANG, Zhe. (2002). *International Journal on Artificial Intelligence Tools*, 11 (3), 455-472.
<http://doi.org/10.1142/S0218213002000988> (Published)
- A new approach for weighted constraint satisfaction, by LAU, Hoong Chuin. (2002). *Constraints*, 7 (2), 151-165.
<https://doi.org/10.1023/a:1015157615164> (Published)
- Low-degree graph partitioning via local search with applications to constraint satisfaction, max cut, and coloring, by Halldorsson, Magnus M.; LAU, Hoong Chuin. (1997). *Journal of Graph Algorithms and Applications*, 1 (3), 1-13.
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.44.5060> (Published)
- Randomized approximations of the constraint satisfaction problem, by LAU, Hoong Chuin; WATANABE, Osamu. (1996). *Nordic Journal of Computing*, 3 (4), 405-424. <http://dl.acm.org/citation.cfm?id=763878.763886> (Published)
- Combinatorial approaches for hard problems in manpower scheduling, by LAU, Hoong Chuin. (1996). *Journal-Operations Research Society of Japan*, 39 (1), 88-98. <http://ci.nii.ac.jp/naid/110001184438/> (Published)
- On the complexity of manpower shift scheduling, by LAU, Hoong Chuin. (1996). *Computers and Operations Research*, 23 (1), 93-102. [http://doi.org/10.1016/0305-0548\(94\)00094-o](http://doi.org/10.1016/0305-0548(94)00094-o) (Published)
- Manpower scheduling with shift change constraints, by LAU, Hoong Chuin. (1995). *IPSJ Journal*, 36 (5), 1271-1279.
<http://ci.nii.ac.jp/naid/110002721876/en> (Published)
- Automated manpower rostering: Techniques and experience, by Khoong, C. M.; LAU, Hoong Chuin; Chew, L. W.. (1994). *International Transactions in Operational Research*, 1 (3), 353-353.
<http://doi.org/10.1111/1475-3995.d01-46> (Published)
- Branch distance optimization of structured programs, by Powell, P.; LAU, Hoong Chuin. (1990). *Computers and Mathematics with Applications*, 19 (12), 53-64. [http://doi.org/10.1016/0898-1221\(90\)90251-e](http://doi.org/10.1016/0898-1221(90)90251-e) (Published)

Journal Articles [Non-Refereed]

- Collaborative model and algorithms for supporting real-time distribution logistics systems, by LAU, Hoong Chuin; LIU, Qi Zhang. (2000). *Electronic Notes in Discrete Mathematics*, 4 1-15.
[http://doi.org/10.1016/S1571-0653\(05\)80103-9](http://doi.org/10.1016/S1571-0653(05)80103-9) (Published)

Editorials

- New developments in metaheuristics and their applications: Selected extended contributions from the 10th Metaheuristics International Conference (MIC 2013), by LAU, Hoong Chuin; Raidl, Günther R.; Van Hentenryck, Pascal. (2016). *Journal of Heuristics*, 22 (4), 359-363. <http://doi.org/10.1007/s10732-016-9313-x> (Published)
- Agent-based problem solving methods in big data environment, by ZHANG, Hao Lan; LAU, Hoong Chuin. (2014). *Web Intelligence and Agent Systems*, 12 (4), 343-345. <http://doi.org/10.3233/WIA-140300> (Published)
- Message from General Chair and Program Co-Chairs [of 14th ICEC '12, held in Singapore, 7-8 August], by KAUFFMAN, R. J.; BICHLER, Martin; LAU, Hoong Chuin; YANG, Christopher; YANG, Yinping. (2012). *International Conference on Electronic Commerce*, 1-4. <https://doi.org/10.1145/2346536> (Published)

Book Chapters

- Towards Personalized Data-driven Bundle Design with QoS Constraint, by MISIR Mustafa; LAU Hoong Chuin. (2019). In Moscato, Pablo, de Vries, Natalie J. (Ed.), *Business and Consumer Analytics: New Ideas* (pp. 865-909) Springer Nature Switzerland AG. (Published)
- Real-world parameter tuning using factorial design with parameter decomposition, by GUNAWAN, Aldy; LAU, Hoong Chuin; WONG, Elaine. (2013). *Advances in metaheuristics* (pp. 37-59) Cham: Springer Verlag. http://doi.org/10.1007/978-1-4614-6322-1_3 (Published)
- The oil drilling model and iterative deepening genetic annealing algorithm for the traveling salesman problem, by LAU, Hoong Chuin; XIAO, Fei. (2008). *Advances in computational intelligence in transport, logistics, and supply chain management* (pp. 169-184) Berlin: Springer Verlag. http://doi.org/10.1007/978-3-540-69390-1_9 (Published)
- Tuning Tabu Search strategies via visual diagnosis, by HALIM, Steven; LAU, Hoong Chuin. (2007). In K. F. Doerner, M. Gendreau, P. Greistorfer, W. Gutjahr, R. F. Hartl, and M. Reimann (Ed.), *Metaheuristics: Progress in complex systems optimization* (pp. 365-388) New York: Springer Verlag. http://doi.org/10.1007/978-0-387-71921-4_19 (Published)
- A generic object-oriented Tabu Search Framework, by LAU, Hoong Chuin; JIA, Xiaomin; WAN, Wee Chong. (2005). In T. Ibaraki, K. Nonobe, and M. Yagiura (Ed.), *Metaheuristics: Progress as real problem solvers* (pp. 203-226) New York: Springer Verlag. http://doi.org/10.1007/0-387-25383-1_9 (Published)
- ROMAN: An integrated approach to manpower planning and scheduling, by KHOONG, Chan Meng; LAU, Hoong Chuin. (1992). In O. Balci, R.Sharda and S.Zenios (Ed.), *Computer science and operations research: New development in their interfaces* (pp. 383-396) New York: Pergammon Press. <http://www.worldcat.org/isbn/9780080408064> (Published)

Conference Proceedings (Refereed)

- Multiagent Decision Making For Maritime Traffic Management, by Arambam Singh, Duc Thien Nguyen, Akshat Kumar and Hoong Chuin Lau. *AAAI Conference on Artificial Intelligence (AAAI)*, Hawaii, USA, January 2019.
- Maximum Entropy based Independent Learning in Anonymous Multi-Agent Settings. Tanvi Verma, Pradeep Varakantham and Hoong Chuin Lau. *International Conference on Automated Planning and Scheduling (ICAPS)*, Berkeley, CA, USA, July 2019.
- Decision Making for Improving Maritime Traffic Safety Using Constraint Programming, by Saumya Bhatnagar, Akshat Kumar and Hoong Chuin Lau. *International Joint Conference on Artificial Intelligence (IJCAI)*, Macau, China, August 2019.
- Improving Law Enforcement Daily Deployment Through Machine Learning-Informed Optimization under Uncertainty, by Jonathan Chase, Duc Thien Nguyen, Haiyang Sun and Hoong Chuin Lau. *International Joint Conference on Artificial Intelligence (IJCAI)*, Macau, China, August 2019.
- Route planning for a fleet of electric vehicles with waiting times at charging stations, by LI, Baoxiang; JHA, Shashi Shekhar; LAU, Hoong Chuin. (2019). *Evolutionary computation in combinatorial optimization: 19th European Conference, EvoCOP 2019, Leipzig, Germany, April 24-26, 2019: Proceedings*, (pp. 66-82) Cham: Springer. https://doi.org/10.1007/978-3-030-16711-0_5 (Published)
- The capacitated team orienteering problem, by GUNAWAN, Aldy; NG, Kien Ming; YU, Vincent F.; ADIPRASETYO, Gordy; LAU, Hoong Chuin. (2019). *Proceedings of the 9th International Conference on Industrial Engineering and Operations Management, Bangkok, Thailand, March 5-7, 2019*, (pp. 1630-1638) Bangkok: (Published)
- Design and implementation of decision support for traffic management at multipurpose port gates, by KULKARNI Ketki; LAU, Hoong Chuin; SIVABALASINGAM, Sathyavarathan; TRAN, Trong Khiem. (2018). *WSC '18: Proceedings of the Winter Simulation Conference, Gothenburg, Sweden, December 9-12*, (pp. 2909-2920) New York: ACM. <https://doi.org/10.1109/WSC.2018.8632493> (Published)

- Credit assignment for collective multiagent RL with global rewards, by NGUYEN, Duc Thien; KUMAR, Akshat; LAU, Hoong Chuin. (2018). *Advances in Neural Information Processing Systems (NIPS 2018): Montreal, Canada, December 2-8*, (pp. 1-12) Cambridge: MIT Press. (Published)
- Iterated local search algorithm for the capacitated team orienteering problem, by GUNAWAN, Aldy; NG, Kien Ming; YU, Vincent F.; ADIPRASETYO, Gordy; LAU, Hoong Chuin.. (2018). *Proceedings of the 12th International Conference on the Practice and Theory of Automated Timetabling (PATAT 2018), Vienna, Austria, August 28-31*, (pp. 493-496) Vienna: PATAT. (Published)
- Bounded rank optimization for effective and efficient emergency response, by MANOHAR, Pallavi; VARAKANTHAM, Pradeep; LAU, Hoong Chuin. (2018). *Proceedings International Conference on Automated Planning and Scheduling ICAPS 2018: Delft, Netherlands, June 24-29*, (pp. 375-382) Palo Alto, CA: AAAI Press. (Published)
- Instance-specific selection of AOS methods for solving combinatorial optimisation problems via neural networks, by TENG, Teck Hou; LAU, Hoong Chuin; GUNAWAN, Aldy. (2018). *Learning and Intelligent Optimization: 12th International Conference, LION 12, Kalamata, Greece, June 10-15: Proceedings*, (pp. 98-114) Cham: Springer. https://doi.org/10.1007/978-3-030-05348-2_9 (Published)
- Resource-constrained scheduling for maritime traffic management, by AGUSSURJA, Lucas; AKSHAT, Kumar; LAU, Hoong Chuin. (2018). *Proceedings of the 32nd AAAI Conference on Artificial Intelligence 2018: New Orleans, February 2-7*, (pp. 6086-6093) Palo Alto, CA: AAAI Press. (Published)
- Exact and heuristic approaches for the multi-agent orienteering problem with capacity constraints, by WANG, Wenjie; LAU, Hoong Chuin; CHENG, Shih-Fen. (2018). *Proceedings of 2017 IEEE Symposium Series on Computational Intelligence, Hilton Hawaiian Village Resort Honolulu, United States, November 27 - December 1*, (pp. 1-7) Honolulu, HI: Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/SSCI.2017.8285329> (Published)
- Policy gradient with value function approximation for collective multiagent planning, by NGUYEN, Duc Thien; KUMAR, Akshat; LAU, Hoong Chuin. (2017). *Advances in Neural Information Processing Systems: Proceedings of NIPS 2017, December 4-9, Long Beach*, (pp. 4320-4330) La Jolla, CA: NIPS Foundation. (Published)
- A selective-discrete particle swarm optimization algorithm for solving a class of orienteering problems, by GUNAWAN, Aldy; YU, Vincent; RED1, Perwira; JEWpanya, Parida; LAU, Hoong Chuin. (2017). *MISTA 2017: Proceedings of the 8th Multidisciplinary International Conference on Scheduling: Theory and Applications: Kuala Lumpur, December 5-8*, (pp. 229-243) Kuala Lumpur: MISTA. (Published)
- Home health care delivery problem, by GUNAWAN, Aldy; LAU, Hoong Chuin; LU, Kun. (2017). *MISTA 2017: Proceedings of the 8th Multidisciplinary International Conference on Scheduling: Theory and Applications: Kuala Lumpur, December 5-8*, (pp. 244-255) Kuala Lumpur: MISTA. (Published)
- Efficient gate system operations for a multi-purpose port using simulation optimization, by KULKARNI, Ketki; TRAN, Khiem Trong; WANG, Hai; LAU, Hoong Chuin. (2017). *2017 Winter Simulation Conference: Las Vegas, NV, December 3-6: Proceedings*, (pp. 3090-3101) Piscataway, NJ: IEEE. <http://doi.org/10.1109/WSC.2017.8248029> (Published)
- Law enforcement resource optimization with response time guarantees, by CHASE, Jonathan; DU, Jiali; FU, Na; LE, Truc Viet; LAU, Hoong Chuin. (2017). *IEEE Symposium Series on Computational Intelligence SSCI, Honolulu, HI, US, 2017 November 27 - December 1*, (pp. 1074-1080) Honolulu, HI: (Published)
- Predicting indoor crowd density using column-structured deep neural network, by SUDO, Akihito; TENG, Teck-Hou; LAU, Hoong Chuin; SEKIMOTO, Yoshihide. (2017). *PredictGIS 2017: Proceedings of the 1st ACM SIGSPATIAL Workshop on Prediction of Human Mobility, Redondo Beach, CA, November 7-10*, (pp. 1-7) New York: ACM. <https://doi.org/10.1145/3152341.3152349> (Published)
- Combinatorial auction for transportation matching service: Formulation and adaptive large neighborhood search heuristic, by LI, Baoxian; LAU, Hoong Chuin. (2017). *Computational Logistics: 8th International Conference, ICCL 2017, Southampton, October 18-20, 2017: Proceedings*, (pp. 127-142) Cham: Springer. https://doi.org/10.1007/978-3-319-68496-3_9 (Published)

- ADVISER+: Toward a usable web-based algorithm portfolio deviser, by LAU, Hoong Chuin; MISIR, Mustafa; LI, Xiang LI; JIANG, Lingxiao. (2017). *MIC 2017: Proceedings of the 12th Metaheuristics International Conference, Barcelona, 4-7 July*, (pp. 1-8) Barcelona: MIC. (Published)
- Augmenting decisions of taxi drivers through reinforcement learning for improving revenues, by VERMA, Tanvi; VARAKANTHAM, Pradeep; KRAUS, Sarit; LAU, Hoong Chuin. (2017). *Proceedings of the 27th International Conference on Automated Planning and Scheduling ICAPS 2017: Pittsburgh, June 18-23*, (pp. 409-417) Palo Alto, CA: AAAI Press. (Published)
- Tackling large-scale home health care delivery problem with uncertainty, by CHEN, Cen; RUBINSTEIN, Zachary; SMITH, Stephen; LAU, Hoong Chuin. (2017). *Proceedings of the Twenty-Seventh International Conference on Automated Planning and Scheduling ICAPS 2017: Pittsburgh, June 18-23*, (pp. 358-366) Menlo Park, CA: AAAI Press. <https://aaai.org/ocs/index.php/ICAPS/ICAPS17/paper/view/15733/> (Published)
- A multi-agent system for coordinating vessel traffic, by TENG, Teck-Hou; LAU, Hoong Chuin; KUMAR, Akshat. (2017). *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems AAMAS 2017: Sao Paulo, Brazil, May 8-12*, (pp. 1814-1816) Richland, SC: IFAAMAS. (Published)
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Solution pluralism and metaheuristics, by KIMBROUGH, Steven O.; KUO, Ann; LAU, Hoong Chuin; MURPHY, Frederic H.; WOOD, David H.. (2011). *Metaheuristics International Conference 9th MIC 2011, July 25-28*, Udine, Italy. (Presented)

Finding robust-under-risk solutions for flowshop scheduling, by KIMBROUGH, Steven O.; KUO, Ann; LAU, Hoong Chuin. (2011). *Metaheuristics International Conference 9th MIC 2011, July 25-28*, Udine, Italy. (Presented)

On using genetic algorithms to support post-solution deliberation in the generalized assignment problem, by Kimbrough, Steven O.; KUO, Ann; LAU, Hoong Chuin. (2009). *Metaheuristics International Conference 8th MIC 2009, July 13-16*, Hamburg, Germany. (Presented)

Towards an intelligent meta-heuristics development framework, by LAU, Hoong Chuin; XIAO, Fei. (2007). *Metaheuristics International Conference 7th MIC 2007, June 25-29*, Montreal, Canada. (Presented)

A generic object-oriented Tabu Search framework, by LAU, Hoong Chuin; WAN, Wee Chong; JIA, Xiaomin. (2003). *MIC 2003: 5th Metaheuristics International Conference, August 25-28, 2003*, Kyoto, Japan. (Presented)

Other Outputs and Contributions

Reports

On the Strategy of Supply Hubs for Cost Reduction and Responsiveness by Barnes, Earl; DAI, Jim; DENG, Shijie; Down, Doug; GOH, Mark; LAU, Hoong Chuin. (2003).

http://www.tliap.nus.edu.sg/tliap/Research_WhitePapers/Supply_Hub_Research.pdf (Published)

Research Grants

Singapore Management University

MHA-MERLION INITIATIVE – SCDF, MHA Merlion Initiative, Ministry of Home Affairs , PI (Project Level): Pradeep Reddy VARAKANTHAM , Co-PI (Project Level): LAU Hoong Chuin, 2016 and 2019

MHA-MERLION INITIATIVE – SPF, MHA Merlion Initiative, Ministry of Home Affairs , PI (Project Level): LAU Hoong Chuin, 2016

Urban Computing Platform for the Urban Computing and Engineering Centre of Excellence, Science and Engineering Research Council Grant, Agency for Science, Technology and Research (A*STAR) , PI (Project Level): LAU Hoong Chuin, 2015, S\$2,500,000

Urban Computing and Engineering Centre of Excellence, Corporate Laboratory@University, National Research Foundation (NRF) & Fujitsu (Multiple Funding Sources) , PI (Programme Level): LAU Hoong Chuin , PI (Project Level): CHENG Shih-Fen, Pradeep Reddy VARAKANTHAM, Akshat KUMAR, 2014, S\$18,500,000

Coordinating Automated Para-Transit Service Operations, Future Urban Mobility (FM) IRG, Singapore-MIT Alliance for Research and Technology (SMART) , PI (Project Level): CHENG Shih-Fen , Co-PI (Project Level): LAU Hoong Chuin, 2013, S\$141,189.92

Coordinating Automated Para-Transit Service Operations, Future Urban Mobility (FM) IRG, Singapore-MIT Alliance for Research and Technology (SMART) , PI (Project Level): LAU Hoong Chuin , Co-PI (Project Level): CHENG Shih-Fen, 2012, S\$104,299.84

Coordinating Automated Para-Transit Service Operations, Future Urban Mobility (FM) IRG, Singapore-MIT Alliance for Research and Technology (SMART) , PI (Project Level): LAU Hoong Chuin , Co-PI (Project Level): CHENG Shih-Fen, 2012, S\$122,758.68

Coordinating Automated Para-Transit Service Operations, Future Urban Mobility (FM) IRG, Singapore-MIT Alliance for Research and Technology (SMART) , PI (Project Level): LAU Hoong Chuin , Co-PI (Project Level): CHENG Shih-Fen, 2011, S\$39,726

Living Analytics Centre, Interactive Digital Media (IDM) International Research Centres (IRCs) Funding Scheme (2010), National Research Foundation (NRF) , PI (Programme Level): LIM Ee Peng , PI (Project Level): LAU Hoong Chuin, Archan MISRA, 2010, S\$52,476,910

Development of a Warehouse Resource Allocation Optimization Engine, Singapore Technologies Dynamics Pte Ltd (STD) , PI (Project Level): LAU Hoong Chuin, 2010, S\$66,000

A Decision Support Software Tool, PSA International , PI (Project Level): LAU Hoong Chuin, 2009-2010, S\$48,000

Time-Sensitive Flexible Coordination in a Service-Oriented Enterprise Chain, Thematic Strategic Research Program (TSRP), Agency for Science, Technology and Research (A*STAR) , PI (Project Level): LAU Hoong Chuin, 2006, S\$443,600

Internal Grants

Computational game models for Network Design with Selfish Agents, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): LAU Hoong Chuin, 2008, S\$19,455.56

Evolutionary computing approaches to the deliberation problem for constrained optimization models, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): LAU Hoong Chuin, 2008, S\$39,050

Game-theoretic models for Scheduling with Selfish Agents, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): LAU Hoong Chuin, 2007, S\$18,888.89

Multi-Agent Adjustable Autonomy System in Supply Chain Crisis Management, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): LAU Hoong Chuin, 2006, S\$40,377.78

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

- Computer as an Analysis Tool
- Computational Thinking
- Enterprise Analytics for Decision Support

Postgraduate Professional Programmes :

- AI Planning and Decision Making
- Algorithm Design and Implementation
- Algorithms and Optimization
- Decision Support and Optimization (in Supply Chains)
- Advanced Topics in Intelligent Systems
- Master Capstone Projects (MITB and MAIS)

Other Institutions

- Combinatorial and Graph Algorithms, Masters, SMU
- Computer as an Analysis Tool, Undergraduate, SMU
- Design and Analysis of Algorithms, Undergraduate, SMU
- Object-Oriented Software Design, Undergraduate, SMU

Teaching Publications

Textbooks

Business analytics for decision making by KIMBROUGH, Steven O.; LAU, Hoong Chuin. (2016). Boca Raton: CRC Press.
<http://worldcat.org/isbn/9781482221763> (Published)

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Singapore Management University

- Supervisor, "Reinforcement Learning For Collective Multi-Agent Decision Making", Dissertation by NGUYEN DUC THIEN, PhD in Information Systems, Singapore Management University, 2019
- Supervisor, "An Integrated Framework for Modeling and Predicting Spatiotemporal Phenomena in Urban Environments", Dissertation by LE TRUC VIET, PhD in Information Systems, Singapore Management University, 2018
- Co Supervisor, "Modelling Movement Decisions in Networks: A Discrete Choice Model Approach", Dissertation by LIN JUNJIE, LARRY, PhD in Information Systems, Singapore Management University, 2018
- Co Supervisor, "Proactive and Reactive Strategies to Handle Surges in Urban Crowds", Dissertation by DU JIALI, PhD in Information Systems, Singapore Management University, 2017
- Supervisor, "Recommending Personalized Schedules in Urban Environments", Dissertation by CHEN CEN, PhD in Information Systems, Singapore Management University, 2017
- Supervisor, "Dynamic Queue Management for Hospital Emergency Room Services", Dissertation by TAN Kar Way, PhD in Information Systems, Singapore Management University, 2014
- Supervisor, "Generic Instance-specific Automated Parameter Tuning Framework", Dissertation by LINDAWATI, PhD in Information Systems, Singapore Management University, 2014
- Supervisor, "Robust Execution Strategy for Scheduling Under Uncertainty", Dissertation by FU NA, PhD in Information Systems, Singapore Management University, 2012

Other Institutions

- Supervisor, "Combinatorial Auctions for Decentralized Job Scheduling", Dissertation by Zhao Zhengyi, PhD, National University of Singapore, 2010
- Supervisor, "Visualization of Local Search Trajectory", Dissertation by Steven Halim, PhD, National University of Singapore, 2010

Theses and Dissertations Assessed

Singapore Management University

- Committee Member, "Proactive Resource (Re)distribution for Improving Efficiency in Urban Environments", Dissertation by SUPRIYO GHOSH, PhD in Information Systems, Singapore Management University, 2018
- Committee Member, "Recommendation Support for Multi-attribute Databases", Dissertation by ZHANG JILIAN, PhD in Information Systems, Singapore Management University, 2014

Other Institutions

- Co Supervisor, "Relationship-Preserving Auctions in e-Procurement", Dissertation by Park Jonghan, PhD, KAIST, 2009

EXTERNAL SERVICE – Consultancy

ST Dynamics, Jan 2010 - Jan 2011
Lavie TimeTECH (Israel), Jan 2009
EADS Singapore Pte Ltd, Jan 2008
Tan Tock Seng Hospital, Jan 2007
Bax Global (Thailand), Jan 2005
Multimedia Development Corp (Malaysia), Jan 2004
DHL (Singapore), Jan 2002
iFusion, Jan 1996 - Jan 2001
ST Electronics, Jan 1996 - Jan 2001
Ministry of Defence, Jan 1996 - Jan 2001
Singapore Computer Society, Jan 1996 - Jan 2001
PSA International, Jan 1996 - Jan 2001
FriarTuck, Jan 1996 - Jan 2001

EXTERNAL SERVICE – EDITORIAL BOARDS

Associate Editor, Editorial Board, Journal of Scheduling, 2018 – Present
Member, Editorial Board, Web Intelligence Journal, 2015 – Present
Associate Editor, Editorial Board, IEEE Transactions on Automation Science and Engineering (T-ASE), 2012 – 2017
Guest Editor, Journal of Heuristics, 2013 - 2014
Guest Editor, Web Intelligence and Agent Systems, An International Journal, 2013 – 2014
Associate Editor, Conference Editorial Board, IEEE Conf. on Automation Science and Engineering (CASE), 2011-2012
Member Board of Directors, Chartered Institute of Logistics and Transportation, Singapore, 2012 – 2018

EXTERNAL SERVICE – CONFERENCE ORGANIZATION

Member, Senior Programme Committee, Association of Advancement in Artificial Intelligence (AAAI), 2019
Member, Programme Committee, Association of Advancement in Artificial Intelligence (AAAI), 2016 - 2017
Member, Senior Programme Committee, International Joint Conference on Artificial Intelligence (IJCAI), 2016 - 2017
Vice Chairman, Programme Committee, IEEE/ACM/WIC Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), 2015
Member, Program Committee, AAAI 2015 Workshop on Algorithm Configuration, 2015
Vice Chairman, Programme Committee, IEEE/ACM/WIC Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), 2015
Member, Program Committee, Learning and Intelligent Optimization Conference (LION), 2014 - 2016
Member, Programme Committee, Genetic and Evolutionary Computation Conference (GECCO), 2013 - 2016
Chairperson, Organizing Committee, Meta-heuristics International Conference (MIC), 2013
Member, Senior Program Committee (2013)
Programme Committee (2014, 2015), Autonomous Agents and Multiagent Systems (AAMAS), 2013 - 2015
Chairperson, Program Committee, International Conference on Electronic Commerce (ICEC), 2012

Member, Program Committee, International Conference on Computational Logistics, 2012 - 2014
Chairperson, Program Committee, IEEE/WIC/ACM International Conf. on Intelligent Agent Technology (IAT), 2012
Member, Editorial Board, Research in Logistics & Production Journal, 2011 - Present
Member, Program Committee, Metaheuristics International Conference (MIC), 2009 – 2015
Member, Technical Program Committee, d-Logistics Seminar (d-Log), 2009
Stream Organizer, International Federation of OR Societies Conf.(IFORS), 2008
Mentor, Doctoral Symposium, International Conference on Automated Planning and Scheduling (ICAPS), 2008
Member, International Conference on Transportation and Logistics (T-LOG), 2007, 2007
Member, Program Committee, Evolutionary Computing (EVO*) Workshop on Transportation and Logistics, 2007 - 2009
Member, Program Committee, Multi-Disciplinary Intl Conf. on Scheduling Theory and Applications (MISTA), 2007 - 2011
Member, Program Committee, Intl Conf. on Tools with Artificial Intelligence (ICTAI), 2006
Member, Program Committee, Intl Conf. on E-Commerce (ICEC), 2006
Member, Program Committee, Intl Conf. on Automated Planning and Scheduling (ICAPS), 2006 - 2008
Member, Program Committee, IEEE/WIC/ACM Conf. on Intelligent Agents Technology (IAT), 2006 - 2011
Member, Program Committee, Intl Conf. Transportation and Logistics (T-LOG), 2005
Member, Program Committee, IEEE Conf. on Automation Science and Engineering, 2005 - 2006
Vice President, Executive Committee, International Society of Logistics, Singapore, 2002 - 2004
Member, Organizing and Program Committee, 5th Asia Pacific Conference of the Operational Research Society (APORS), 2000

EXTERNAL SERVICE – PUBLIC SECTOR AND COMMUNITY SERVICE

Committee Chair, AI Challenge (Urban Solutions), AI Singapore, 2017 - 2018
Committee Member, Public Sector Funding Review Panel, A*STAR Science & Engineering Research Council, 2016 - Present