

Hoong Chuin LAU
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Citizenship: Singaporean

Education

1993 - 1996	Doctorate of Engineering in Computer Science Tokyo Institute of Technology, Japan
1987 - 1988	MSc in Computer Science (Summa Cum Laude) University of Minnesota, Minneapolis, USA
1983 - 1986	BSc in Computer Science (Summa Cum Laude) University of Minnesota, Minneapolis, USA

Position(s) Held

Jan 2014 - Now	Professor, School of Information Systems Director, Fujitsu-SMU Urban Computing and Engineering Corp Lab (since 2015) Deputy Director, Living Analytics Research Centre (since 2011) Singapore Management University
Jul 2005 - Dec 2013	Associate Professor, School of Information Systems Deputy Director, Living Analytics Research Centre (since March 2011) Singapore Management University
Jul 2005 - Dec 2012	Director, Information Systems (Adjunct) The Logistics Institute Asia Pacific National University of Singapore
Sep 1999 - Jun 2005	Assistant Professor, School of Computing Director, Defense Logistics, The Logistics Institute Asia Pacific (since Apr 2001) National University of Singapore
Sep 1999 - Sep 2001	Chief Technology Officer Logismatic (Spinoff unit from Kent Ridge Digital Labs), acquired by iFusion Pte Ltd, Singapore
Oct 1996 - Sep 1999	Member of Research Staff Kent Ridge Digital Labs (now Infocomms Institute of Research), Singapore
1993 - 1996	Visiting Scholar, Fujitsu AI Research Lab, Tokyo, Japan Full-time PhD Candidate Tokyo Institute of Technology, Japan
1991 - 1993	Member of Technical Staff, Information Technology Institute National Computer Board, Singapore
1991 - 1993	Adjunct Lecturer Comsertrac School of Information Processing, Singapore

1988 - 1990	Full-time National Service, invited as Part-time tutor School of Computing National University of Singapore
1987 - 1988	Teaching Assistant, Department of Computer Science University of Minnesota, Minneapolis, USA

Visiting Positions

Jun 2014 - Jun 2014	Zhejiang University (Ningbo Institute of Technology), China
Jul 2013 - Jul 2013	Xiamen University, China
Feb 2013 - Mar 2013	Tokyo Institute of Technology, Japan
Dec 2012 - Dec 2012	Institute of Computing Technologies, Chinese Academy of Sciences
Nov 2010 - Dec 2010	Wharton Business School, University of Pennsylvania
Dec 2000 - Jan 2001	Graduate School of Informatics, Kyoto University
Jun 1996 - Sep 1996	Max Planck Institute for Informatics, Saarbrücken, Germany

Research Interests

1. Analytics for urban management and service improvement
2. Autonomous Agents and Multi-agent systems
3. Optimization models, algorithms and decision support tools for Logistics, Supply chain management, e-Commerce
4. Interface of Computer Science and Operations Research
5. Software frameworks and solvers for optimization problems

Grants

1. Ministry of Home Affairs (Singapore Civil Defense Force), August 2016 - August 2017
Amount: SGD 357,000
2. Ministry of Home Affairs (Singapore Police Force), July 2016 - July 2017
Amount: SGD 253,000
3. National Research Foundation, Fujitsu-SMU UNiCEN Corp Lab, Lab Director and PI, October 2014 - September 2019
Amount: SGD 13.5million (NRF), 7.5 million (Fujitsu)
4. ASTAR Science and Engineering Research Council, PI, \$600k, July 2013 - June 2015
5. Living Analytics Research Centre funded by Singapore National Research Foundation (NRF), Deputy Director and Area Head, \$26m, March 2011 - March 2016
6. Singapore-MIT Alliance Research Center (SMART), PI (2011-2013), Co-PI (2014-2015), \$400k, January 2011 - December 2015
7. ST Dynamics, PI, \$90k, 2010 - 2011
8. PSA, PI, \$50k, 2009 - 2010

9. SMU Internal Grants, PI, total approx. \$180k, 2006 - 2010
10. ASTAR Science and Engineering Research Council, PI, \$440k, April 2006 - April 2009
11. Ministry of Defense / DSTA, PI, 5 years, \$5m, 2002 - 2007
12. National University of Singapore, PI, 2 years, \$28k, 2000 - 2002
13. NSTB (now called ASTAR), co-PI, 1 year, \$96k , 2000 - 2000
14. NSTB (now called ASTAR), co-PI, 1.5 years, \$113k , 1997 - 1999
15. NSTB (now called ASTAR), PI, 3 years, \$1.2m, 1997 - 2000

Editorial Boards

1. Guest Editor, , Journal of Heuristics, 2013 - 2014
2. Guest Editor, , Web Intelligence and Agent Systems, An International Journal, 2013 - 2014
3. Associate Editor, Editorial Board, IEEE Transactions on Automation Science and Engineering (T-ASE), 2012 - Now
4. Member, Editorial Board, Web Intelligence Journal, 2015 - Now
5. Associate Editor, Conference Editorial Board, IEEE Conf. on Automation Science and Engineering (CASE), 2011 - Now
6. Member, Editorial Board, Research in Logistics & Production Journal, 2011 - Now

Board Memberships

1. Director, Professional Development, Board of Directors, Chartered Institute of Logistics and Transportation, Singapore, 2012 - Now
2. Vice President (Professional Development), Executive Committee, International Society of Logistics, Singapore, 2002 - 2004

Committees

1. Member, Public Sector Funding (PSF) Panel
, A*STAR Science and Engineering Research Council, 2016 - 2016

Conference Program Committee and Advisory Services

1. Member, Senior Programme Committee, International Joint Conference on Artificial Intelligence (IJCAI), 2016 - 2017
2. Member, Programme Committee, Association of Advancement in Artificial Intelligence (AAAI), 2016 - 2016
3. Member, Program Committee, AAAI 2015 Workshop on Algorithm Configuration, 2015 - 2015
4. Vice-Chair, Programme Committee, IEEE/ACM/WIC Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), 2015 - 2015

5. Member, Senior Program Committee (2013)
Programme Committee (2014, 2015), Autonomous Agents and Multiagent Systems (AAMAS),
2013 - 2015
6. Member, Programme Committee, Genetic and Evolutionary Computation Conference (GECCO),
2013 - 2016
7. Member, Program Committee, Learning and Intelligent Optimization Conference (LION), 2014 -
2016
8. General Chair and Programme Co-Chair, Organizing Committee, Meta-heuristics International
Conference (MIC), 2013 - 2013
9. Co-Chair, Program Committee, IEEE/WIC/ACM International Conf. on Intelligent Agent
Technology (IAT), 2012 - 2012
10. Co-Chair, Program Committee, International Conference on Electronic Commerce (ICEC), 2012 -
2012
11. Member, Program Committee, International Conference on Computational Logistics, 2012 - 2014
12. Program Committee, Metaheuristics International Conference (MIC), 2009 - 2015
13. Member, Technical Program Committee, d-Logistics Seminar (d-Log), 2009 - 2009
14. Program Committee, Multi-Disciplinary Intl Conf. on Scheduling Theory and Applications
(MISTA), 2007 - 2011
15. Program Committee, IEEE/WIC/ACM Conf. on Intelligent Agents Technology (IAT), 2006 - 2011
16. Stream Organizer, International Federation of OR Societies Conf.(IFORS), 2008 - 2008
17. Program Committee, Intl Conf. on Automated Planning and Scheduling (ICAPS), 2006 - 2008
18. Program Committee, Evolutionary Computing (EVO*) Workshop on Transportation and Logistics,
2007 - 2009
19. Program Committee, Intl Conf. on E-Commerce (ICEC), 2006
20. Program Committee, IEEE Conf. on Automation Science and Engineering, 2005, 2006
21. Program Committee, Intl Conf. on Tools with Artificial Intelligence (ICTAI), 2006
22. Program Committee, Intl Conf. Transportation and Logistics (T-LOG), 2005 and 2007
23. Organizing and Program Committees, 5th Asia Pacific Conference of the Operational Research
Society (APORS), 2000 - 2000

Professional Activities

1. Mentor, Doctoral Symposium, International Conf. Planning and Scheduling (ICAPS), 2008
2. Reviewers for Journals:
Asia Pacific Journal of Operations Research;
Computers and Operations Research;
Constraints Journal;
European Journal of Operations Research;
International Journal of Inventory Research;

IEEE Transactions on Automation Science and Engineering;
Journal of Heuristics,
Journal of Global Optimization;
Journal of Scheduling;
Journal of Food Engineering (Special issue OR in Food Logistics)
Transportation Research (Part A), 1996 - 2010

3. Reviewer for Conferences (in addition to Conference Program Committees listed above):
International Joint Conference on AI (IJCAI);
AAAI National Conference (AAAI);
Decision Sciences Institute Annual Meeting (DSI);
European Conf. on AI (ECAI);
International Symposium on Algorithms and Computation (ISAAC);
International Conf. on Principles and Practice of Constraint Programming (CP);
Pacific Rims International Conference on AI (PRICAI);
Workshop on Algorithmic Theory (WATS), 1996 - 2010

Awards, Recognition and Honors

1. National Computer Board Undergraduate Scholarship, 1984 - 1988
2. Infocomm Development Authority Postgraduate Scholarship, 1993 - 1996
3. Japan-Singapore Promotion of Science (JSPS) Fellowship, 2000 - 2000
4. National IQC Star Award (team category), 2006 - 2006
5. Defense Technology Prize (individual category) Nomination, 2007 - 2007
6. Singapore Management University Lee Kwan Yew Research Fellowship, 2008 - 2008

Consultancy

1. ST Dynamics (Singapore): Dynamic Berth Allocation, 2010 - 2011
2. Lavie TimeTECH (Israel): Scheduling toolkit, 2009
3. EADS (Singapore): Logistics R&D Landscape study, 2008 - 2008
4. Tan Tock Seng Hospital (Singapore): Physician rostering, 2007 - 2007
5. Bax Global (Thailand): Automotive Logistics operations, 2005 - 2005
6. Multimedia Development Corp (Malaysia): Agent-Oriented Supply Chain Architecture, 2004 - 2004
7. DHL (Singapore): Inventory forecasting, 2002 - 2002
8. PSA, MINDEF, SCS, STEE, iFusion, FriarTuck, 1996 - 2001

Memberships in Professional Organizations

1. Member, AAAI (Association for the Advancement of Artificial Intelligence), 2005 - 2013
2. Member, IEEE (Institute of Electrical and Electronics Engineers), 2008 - 2013
3. Chartered member, CILT (Chartered Institute of Logistics and Transport), 2012 - Now

Invited Talks

1. Enabling Win-Win and Sharing in Urban and Multimodal Logistics: Research Challenges and Technology. 3rd China International Logistics Development Conference, Suining, China. , October 2016 - November 2016
2. Agent-based Systems in Urban Transportation and Logistics: Research and Applications. International Symposium on Agents, Multi-Agent Systems and Robotics (ISAMSR), Kuala Lumpur, Malaysia., August 2015 - August 2015
3. Last-Mile Delivery in Smart Cities: Challenges and Solutions. ACM Fifth International Symp. on Information and Communication Technology (SOICT), Hanoi, Vietnam., December 2014 - December 2014
4. Collaborative Urban Logistics - Challenges, Current Practices and Future Research. SMU Urban Logistics and Supply Chain Symposium, Singapore., November 2014 - November 2014
5. Resource Allocation and Coordination in Urban Logistics. In Chinese. Ningbo Academy of Smart City Development and NIT Zhejiang University, China., June 2014 - June 2014
6. Analytics for Urban Safety and Security Management. SCDF (Singapore Civil Defense Force) Annual Workplan Seminar, Singapore., April 2014 - April 2014
7. Coordination of Last-Mile Delivery in Urban Cities - a review of current practices and future prospects. Conference on Global Challenges in Smart Logistics organized by Netherlands Ministry of Economic Affairs, Utrecht, Netherlands., November 2013 - November 2013
8. Dynamic Experience Management in Theme Parks via Coordination and Incentives. Invited talk at ERATO Distinguished Speaker Series, Sendai, Japan., March 2013 - March 2013
9. Coordinating the Transportation of Freight and Passengers to Improve Sustainability. Tsinghua Workshop on Sustainable Logistics & Transportation in Mega-Cities, Beijing, China. , December 2012 - December 2012
10. Multi-Agent Coordination in Humanitarian and Emergency Response Logistics. AAAI Fall Symposium Workshop on Multiagent Coordination Under Uncertainty, Arlington, USA, November 2011
11. Real World Project Management : How to Efficiency Generate a Robust Schedule? Distinguished Speaker Series, Leeds School of Business, University of Colorado (Boulder), USA, December 2010
12. Master Physician Scheduling Problem. Asia Pacific Workshop on Decision Support Technology, Taipei, Republic of China, September 2010
13. Recent Advances in Meta-heuristics for Handling Uncertainty. Special Conference on Methods and Applications of Metaheuristics, Guangzhou, China, December 2009
14. A Combinatorial Auction Framework for Solving Decentralized Resource Allocation and Scheduling. DiCoMAS Seminar on New Approaches to Planning and Scheduling, Brussels, Belgium, November 2009
15. Optimising Performance In Logistics And Supply Chains Through Real-Time Optimisation Technology, Defense Logistics Summit (Middle East), Abu Dhabi, UAE, January 2009
16. Ministry of Defence (Singapore) d-Logistics seminar (2002, 2003, 2004, 2006, 2008)

Patents

1. (Application / Filed): INCENTIVE-BASED CROWD MANAGEMENT SYSTEM2016

Textbook

1. "Business analytics for decision making", by KIMBROUGH, Steven O.; LAU, Hoong Chuin, 01/2016, Boca Raton: CRC Press, <http://worldcat.org/isbn/9781482221763>. (Published, Peer-Reviewed)

Journal Article

1. "Orienteering problem: A survey of recent variants, solution approaches and applications", by GUNAWAN, Aldy; LAU, Hoong Chuin; VANSTEENWEGEN, Pieter, 12/2016, *European Journal of Operational Research*, 255, 2, 315 - 332, <http://doi.org/10.1016/j.ejor.2016.04.059>. (Published, Peer-Reviewed)
2. "Achieving economic and environmental sustainabilities in urban consolidation center with bicriteria auction", by HANDOKO, Stephanus Daniel; LAU Hoong Chuin; CHENG, Shih-Fen, 10/2016, *IEEE Transactions on Automation Science and Engineering*, 13, 4, 1471 - 1479, <http://doi.org/10.1109/TASE.2016.2563459>. (Published, Peer-Reviewed)
3. "Patrol scheduling in urban rail network", by LAU, Hoong Chuin; YUAN, Zhi; GUNAWAN, Aldy, 04/2016, *Annals of Operations Research*, 239, 1, 317 - 342, <http://doi.org/10.1007/s10479-014-1648-9>. (Published, Peer-Reviewed)
4. "Robust execution strategies for project scheduling with unreliable resources and stochastic durations", by FU, Na; LAU, Hoong Chuin; VARAKANTHAM, Pradeep, 12/2015, *Journal of Scheduling*, 18, 6, 607 - 622, <http://doi.org/10.1007/s10951-015-0425-1>. (Published, Peer-Reviewed)
5. "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, 10/2014, *European Journal of Operational Research*, 238, 1, 95 - 103, <http://dx.doi.org/10.1016/j.ejor.2014.03.049>. (Published, Peer-Reviewed)
6. "Multi-agent orienteering problem with time-dependent capacity constraints", by CHEN, Cen; CHENG, Shih-Fen; LAU, Hoong Chuin, 10/2014, *Web Intelligence and Agent Systems*, 12, 4, 347 - 358, <http://doi.org/10.3233/WIA-140304>. (Published, Peer-Reviewed)
7. "Patrol Scheduling in an Urban Rail Network", by LAU Hoong Chuin; YUAN, Zhi; GUNAWAN Aldy, 06/2014, *Annals of Operations Research*, 239, 1, 1 - 26, <http://dx.doi.org/10.1007/s10479-014-1648-9>. (Published, Peer-Reviewed)
8. "Clustering of search trajectory and its application to parameter tuning", by Lindawati, Linda; LAU, Hoong Chuin; LO, David, 12/2013, *Journal of the Operational Research Society*, 64, 12, 1742 - 1752, <http://doi.org/10.1057/jors.2012.167>. (Published, Peer-Reviewed)
9. "Master physician scheduling problem", by GUNAWAN, Aldy; LAU, Hoong Chuin, 03/2013, *Journal of the Operational Research Society*, 64, 3, 410 - 425, <http://doi.org/10.1057/jors.2012.48>. (Published, Peer-Reviewed)
10. "Robust distributed scheduling via time-period aggregation", by CHENG, Shih-Fen; TAJAN, John; LAU, Hoong Chuin, 10/2012, *Web Intelligence and Agent Systems*, 10, 3, 305 - 318, <http://doi.org/10.3233/WIA-2012-0248>. (Published, Peer-Reviewed)

11. "Robust local search for solving RCPSP/max with durational uncertainty", by FU, Na; LAU, Hoong Chuin; VARAKANTHAM, Pradeep; XIAO, Fei, 01/2012, *Journal of Artificial Intelligence Research*, 43, 43 - 86, <http://www.jair.org/papers/paper3424.html>. (Published, Peer-Reviewed)
12. "Allocating resources in multiagent flowshops with adaptive auctions", by LAU, Hoong Chuin; ZHAO, Zhengyi; GE, Sam Shuzhi; LEE, Thong Heng, 10/2011, *IEEE Transactions on Automation Science and Engineering*, 8, 1, 732 - 743, <http://doi.org/10.1109/TASE.2011.2160536>. (Published, Peer-Reviewed)
13. "Periodic resource reallocation in two-echelon repairable item inventory systems", by LAU, Hoong Chuin; PAN, Jie; SONG, Huawei, 07/2010, *IEEE Transactions on Automation Science and Engineering*, 7, 3, 474 - 485, <http://doi.org/10.1109/TASE.2010.2040827>. (Published, Peer-Reviewed)
14. "The price of stability in selfish scheduling games", by AGUSSURJA, Lucas; LAU, Hoong Chuin, 12/2009, *Web Intelligence and Agent Systems*, 7, 4, 321 - 332, <http://doi.org/10.3233/WIA-2009-0171>. (Published, Peer-Reviewed)
15. "Optimizing service systems based on application-level QoS", by LIANG, Qianhui; WU, Xindong; LAU, Hoong Chuin, 04/2009, *IEEE Transactions on Services Computing*, 2, 2, 108 - 121, <http://doi.org/10.1109/TSC.2009.13>. (Published, Peer-Reviewed)
16. "Integrated resource allocation and scheduling in a bidirectional flowshop with multimachine and COS constraints", by LAU, Hoong Chuin; ZHAO, Zhengyi; GE, Shuzhi Sam, 03/2009, *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, Peer-Reviewed)
17. "Efficient algorithms for machine scheduling problems with earliness and tardiness penalties", by FENG, Guang; LAU, Hoong Chuin, 03/2008, *Annals of Operations Research*, 159, 1, 83 - 95, <http://doi.org/10.1007/s10479-007-0284-z>. (Published, Peer-Reviewed)
18. "Multi-Echelon Repairable Item Inventory System with Limited Repair Capacity under Nonstationary Demands", by LAU, Hoong Chuin; SONG, Huawei, 01/2008, *International Journal of Inventory Research*, 1, 1, 67 - 92, <http://dx.doi.org/10.1504/IJIR.2008.019209>. (Published, Peer-Reviewed)
19. "Real-time supply chain control via multi-agent adjustable autonomy", by LAU, Hoong Chuin; Agussurja, Lucas; Thangarajoo, Ramesh, 11/2007, *Computers and Operations Research*, 35, 11, 3452 - 3464, <http://doi.org/10.1016/j.cor.2007.01.027>. (Published, Peer-Reviewed)
20. "A software framework for fast prototyping of meta-heuristics hybridization", by LAU, Hoong Chuin; Wan, W. C.; Halim, S.; Toh, K. Y., 03/2007, *International Transactions in Operational Research*, 14, 2, 123 - 141, <http://dx.doi.org/10.1111/j.1475-3995.2007.00578.x>. (Published, Peer-Reviewed)
21. "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, 12/2006, *Discrete Optimization*, 3, 4, 385 - 391, <http://doi.org/10.1016/j.disopt.2006.06.002>. (Published, Peer-Reviewed)
22. "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, 04/2006, *European Journal of Operational Research*, 170, 1, 91 - 105, <http://doi.org/10.1016/j.ejor.2004.06.022>. (Published, Peer-Reviewed)
23. "A periodic-review inventory model with application to the continuous-review obsolescence problem", by SONG, Yuyue; LAU, Hoong Chuin, 11/2004, *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, Peer-Reviewed)

24. "Vehicle routing problem with time windows and a limited number of vehicles", by LAU, Hoong Chuin; SIM, Melvyn; TEO, Kwong Meng, 08/2003, *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, Peer-Reviewed)
25. "Pickup and delivery problem with time windows: Algorithms and test case generation", by LAU, Hoong Chuin; LIANG, Zhe, 09/2002, *International Journal on Artificial Intelligence Tools*, 11, 3, 455 - 472, <http://doi.org/10.1142/S0218213002000988>. (Published, Peer-Reviewed)
26. "A new approach for weighted constraint satisfaction", by LAU, Hoong Chuin, 04/2002, *Constraints*, 7, 2, 151 - 165, <http://doi.org/10.1023/a:1015157615164>. (Published, Peer-Reviewed)
27. "Collaborative model and algorithms for supporting real-time distribution logistics systems", by LAU, Hoong Chuin; LIU, Qi Zhang, 12/2000, *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)
28. "Low-degree graph partitioning via local search with applications to constraint satisfaction, max cut, and coloring", by Halldorsson, Magnus M.; LAU, Hoong Chuin, 01/1997, *Journal of Graph Algorithms and Applications*, 1, 3, 1 - 13, <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.44.5060>. (Published, Peer-Reviewed)
29. "On the complexity of manpower shift scheduling", by LAU, Hoong Chuin, 01/1996, *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, Peer-Reviewed)
30. "Combinatorial approaches for hard problems in manpower scheduling", by LAU, Hoong Chuin, 01/1996, *Journal- Operations Research Society of Japan*, 39, 1, 88 - 98, <http://ci.nii.ac.jp/naid/110001184438/>. (Published, Peer-Reviewed)
31. "Randomized approximations of the constraint satisfaction problem", by LAU, Hoong Chuin; WATANABE, Osamu, 01/1996, *Nordic Journal of Computing*, 3, 4, 405 - 424, <http://dl.acm.org/citation.cfm?id=763878.763886>. (Published, Peer-Reviewed)
32. "Manpower scheduling with shift change constraints", by LAU, Hoong Chuin, 05/1995, *IPSSJ Journal*, 36, 5, 1271 - 1279, <http://ci.nii.ac.jp/naid/110002721876/en>. (Published, Peer-Reviewed)
33. "Automated manpower rostering: Techniques and experience", by Khoong, C. M.; LAU, Hoong Chuin; Chew, L. W., 10/1994, *International Transactions in Operational Research*, 1, 3, 353 - 353, <http://doi.org/10.1111/1475-3995.d01-46>. (Published, Peer-Reviewed)
34. "Branch distance optimization of structured programs", by Powell, P.; LAU, Hoong Chuin, 01/1990, *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, Peer-Reviewed)

Editorial

1. "New developments in metaheuristics and their applications: Selected extended contributions from the 10th Metaheuristics International Conference (MIC 2013)", by LAU, Hoong Chuin; Raidl, GÃ¼nther R.; Van Hentenryck, Pascal, 08/2016, *Journal of Heuristics*, 22, 4, 359 - 363, <http://doi.org/10.1007/s10732-016-9313-x>. (Published, Peer-Reviewed)
2. "Agent-based problem solving methods in big data environment", by ZHANG, Hao Lan; LAU, Hoong Chuin, 10/2014, *Web Intelligence and Agent Systems*, 12, 4, 343 - 345, <http://doi.org/10.3233/WIA-140300>. (Published, Peer-Reviewed)

Conference Proceedings Article

1. "Managing egress of crowd during infrastructure disruption", by TENG, Teck-Hou; CHENG, Shih-Fen; TRUONG, Trong Nghia; LAU, Hoong Chuin, 12/2016, *WSC 2016: Proceedings of the Winter Simulation Conference 2016, 11-14 December, Washington DC*, Catonsville, MD: INFORMS. (Published, Peer-Reviewed)
2. "TASKer: Behavioral insights via campus-based experimental mobile crowd-sourcing", by KANDAPPU, Thivya.; JAIMAN, Nikita; Tandriansyah, Randy; MISRA Archan; CHENG Shih-Fen; CHEN, Cen; LAU Hoong Chuin; CHANDER, Deepthi; DASGUPTA, Koustuv, 09/2016, *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Heidelberg, Germany, September 12-16, 2016*, 392 - 402, New York: ACM, <http://doi.org/10.1145/2971648.2971690>. (Published, Peer-Reviewed)
3. "An intelligent system for personalized conference event recommendation and scheduling", by GUNAWAN, Aldy; LAU, Hoong Chuin; VARAKANTHAM, Pradeep; WANG, Wenjie, 09/2016, *ECAI 2016: 22nd European Conference on Artificial Intelligence, 29 August-2 September 2016, The Hague*, 1797 - 1802, Amsterdam: IOS Press, <http://doi.org/10.3233/978-1-61499-672-9-1797>. (Published, Peer-Reviewed)
4. "A fast algorithm for personalized travel planning recommendation", by GUNAWAN, Aldy; LAU, Hoong Chuin Lau, Kun Lu, 08/2016, *PATAT 2016: Proceedings of the 11th International Conference of the Practice and Theory of Automated Timetabling: Udine, Italy, August 23-26, 2016, 163 - 179, Udine, Italy: PATAT*, http://www.patatconference.org/patat2016/files/proceedings/paper_15.pdf. (Published, Peer-Reviewed)
5. "Enhancing local search with adaptive operator ordering and its application to the time dependent orienteering problem", by GUNAWAN, Aldy; LAU, Hoong Chuin; LU, Kun, 08/2016, *PATAT 2016: Proceedings of the 11th International Conference of the Practice and Theory of Automated Timetabling: Udine, Italy, August 23-26, 2016*, 181 - 193, Udine, Italy: PATAT, http://www.patatconference.org/patat2016/files/proceedings/paper_16.pdf. (Published, Peer-Reviewed)
6. "An Experimental Investigation of Product Competition and Marketing in Social Networks", by CHEN, Cen; GUO, Zhiling; CHENG, Shih-Fen; LAU, Hoong Chuin, 06/2016, *Proceedings of the 10th China Summer Workshop on Information Management (CSWIM)*, 36 - 41, Dalian, China, <http://2016.cswimworkshop.org/wp-content/uploads/2016/09/CSWIM2016-Proceedings-1.pdf>. (Published, Peer-Reviewed)
7. "Robust partial order schedules for RCPSP/max with durational uncertainty", by FU, Na; VARAKANTHAM, Pradeep; LAU, Hoong Chuin, 06/2016, *Proceedings of the 26th International Conference on Automated Planning and Scheduling: London, June 12-17, 2016*, 124 - 130, Menlo Park, CA: AAAI. (Published, Peer-Reviewed)
8. "Designing and comparing multiple portfolios of parameter configurations for online algorithm selection", by GUNAWAN, Aldy; LAU, Hoong Chuin; MISIR, Mustafa, 06/2016, *Learning and Intelligent Optimization: 10th International Conference, LION 10, Ischia, Italy, May 29 - June 1, 2016, Revised Selected Papers*, 91 - 106, Cham: Springer Verlag, http://doi.org/10.1007/978-3-319-50349-3_7. (Published, Peer-Reviewed)
9. "Self-organizing neural network for adaptive operator selection in evolutionary search", by TENG, Teck-Hou; HANDOKO, Stephanus Daniel; LAU, Hoong Chuin, 06/2016, *Learning and Intelligent Optimization: 10th International Conference, LION 10, Ischia, Italy, May 29 - June 1, 2016, Revised Selected Papers*, 187 - 202, Cham: Springer Verlag, http://doi.org/10.1007/978-3-319-50349-3_13. (Published, Peer-Reviewed)
10. "Reinforcement learning framework for modeling spatial sequential decisions under uncertainty: (Extended abstract)", by LE, Truc Viet; LIU, Siyuan; LAU, Hoong Chuin, 05/2016, *AAMAS '16*:

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1. "The oil drilling model and iterative deepening genetic annealing algorithm for the traveling salesman problem", by LAU, Hoong Chuin; XIAO, Fei, 01/2008, In *Advances in computational intelligence in transport, logistics, and supply chain management*, 169 - 184, Berlin: Springer Verlag, http://doi.org/10.1007/978-3-540-69390-1_9. (Published, Peer-Reviewed)
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3. "A generic object-oriented Tabu Search Framework", by LAU, Hoong Chuin; JIA, Xiaomin; WAN, Wee Chong, 01/2005, In T. Ibaraki, K. Nonobe, and M. Yagiura, *Metaheuristics: Progress as real problem solvers*, 203 - 226, New York: Springer Verlag, http://doi.org/10.1007/0-387-25383-1_9.

(Published, Peer-Reviewed)

4. "ROMAN: An integrated approach to manpower planning and scheduling", by KHOONG, Chan Meng; LAU, Hoong Chuin, 01/1992, In O. Balci, R.Sharda and S.Zenios, *Computer science and operations research: New development in their interfaces*, 383 - 396, New York: Pergammon Press, <http://www.worldcat.org/isbn/9780080408064>. (Published, Peer-Reviewed)

Courses Taught - Ph. D

1. Decision Support and Optimization, 2006 - Now
2. Advanced Topics in Intelligent Systems, 2007 - 2012

Courses Taught - Masters

1. Combinatorial and Graph Algorithms, 2004 - 2005

Courses Taught - Undergraduate

1. Computational Thinking, 2012 - Now
2. Enterprise Adaptive Decision Support , 2008 - Now
3. Guided Research, 2008 - 2010
4. Computer as an Analysis Tool, 2005 - 2007
5. Design and Analysis of Algorithms, 2002 - 2004
6. Object-Oriented Software Design, 1999 - 2001

Thesis Student (Ph. D)

1. Steven Halim, Visualization of Local Search Trajectory (NUS), 2004 - 2010
2. Park Jonghan, Relationship-Preserving Auctions in e-Procurement (KAIST, co-supervision), 2005 - 2009
3. Ramesh Thangarajoo, Part-time PhD - withdrawn due to personal reasons (NUS), 2005 - 2008
4. Zhao Zhengyi, Combinatorial Auctions for Decentralized Job Scheduling (NUS, co-supervision), 2006 - 2010
5. Fu Na, Robust Execution Strategies for Project Scheduling , July 2007 - May 2012
6. Lindawati, Generic Instance-specific Automated Parameter Tuning Framework , July 2008 - July 2013
7. Mike Liow. Converted to MSc. , July 2009 - June 2013
8. Tan Kar Way. A Framework to Improve Patient Length-of-Stay in Emergency Department through Dynamic Queue Management, January 2010 - December 2013
9. Elaine Wong. Part-time PhD - withdrawn due to family migration to the US., July 2011

10. Du Jiali. Topic to be decided, July 2012
11. Le Truc Viet. Topic to be decided, January 2013
12. Chen Cen. Topics to be decided, January 2013

Master Student Supervision

1. Melvyn Sim. Over-constrained Vehicle Routing with Time Windows Part I (MSc, SMA)
2. Teo Kwong Ming Over-constrained Vehicle Routing with Time Windows Part II (MSc, SMA)
3. Song Huawei Corrective Maintenance of Military Systems (MSc, SOC)
4. Sankaran Sri Nivas Transportation Planning and Modeling of SembLog India Operations (MSc, TLI-AP)
5. Lim Min Kwang Ant-Colony Meta-Heuristics: Schemes and Software Framework (MSc, SOC)
6. Wu Xiaotao Transport Planning with Service Constraints (MSc, SOC)
7. Wang Hui Two Agent-Based Approaches for Solving Multi-Objective Optimization Problems (MSc, SOC)
8. Ng Yong Jin Stolt Tank Containers: Best Route Solutions (MSc, TLI-AP)
9. Que Youguang Transportation Management and Modeling of SembLog China Operations (MSc, TLI-AP)
10. Soh Guan Li A Pickup and Delivery Problem in a Military Transportation Context (MSc, TLI-AP)
11. Wan Wee Chong Meta-Heuristics Development Framework: Design and Applications (MSc, SOC)
12. Li Jia Robust Controllability of Temporal Constraint Network Under Uncertainty (MSc, SOC)
13. Feng Guang Algorithms for Scheduling Problems with Weighted Earliness/Tardiness Penalty (MSc, SOC)
14. Thomas Ou Robust Meta-Heuristics Framework (MSc, TLI-AP)
15. Mike Liow. Niche Seeking in Influence Maximization with Adversary (MSc, SIS), 2009 - 2011
16. Ngyuen Duc Thien, Fair Cost Sharing Auction Mechanisms in Last Mile Ridesharing (MSc, SIS), 2011 - 2013