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1 Personal Data

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2 Professional Experience

12/2013–07/2016	Post-Doc at National University of Singapore, Industrial Engineering Department
01/2013–12/2013	Post-Doc for Politecnico di Milano & National Research Council, Milan, ITALY
01/2010–01/2013	PhD student, Mechanical Engineering, Politecnico di Milano, Milan, ITALY. Advisor: Professor Andrea Matta.
08/2011–01/2013	Visiting PhD student, IEOR, University of California at Berkeley, Berkeley, USA. Advisor: Professor Lee W. Schruben

3 Publications, Intellectual Property, and Presentations

3.1 Summary

Abstracts	6
Books Co-Edited	NA
Book Chapters Published	3
Invited Book Chapters Published	2
Invited Book Chapters Submitted / In Preparation	1
Co-Editor for Thematic Journal Issues	1
Invited Journal Publications	NA
Invited Conference Papers	2
Refereed Conference Papers	20
Technical Papers (unrefereed)	1
Total Journal Publications (Published, In Press, and /or Accepted)	13
Journal Publications (Published, In Press, and /or Accepted) from ASU	5
Journal Publications Prior to ASU (All Published)	8
Journal Editorials	NA
Manuscripts Submitted / In Revision from ASU	4
Manuscripts in Preparation from ASU (to be submitted before December 2018)	5
Intellectual Property	NA

3.2 Journal Publications

1. **Kang Y., Mathesen, L.,** Pedrielli, G., and Ju F. 2020. Multi-Fidelity Modeling for Analysis and Optimization of Serial Production Lines. Submitted to *IEEE Transactions on Automated Control*. Accepted for Publication.
2. Pedrielli, G., Sun, H., Ho, C., Pan, R. 2020. Cyber Coordinated Simulation for Freeze Nano Printing Multi-Stage Distributed Additive Manufacturing (STREAM) Systems. Submitted to *Journal of Manufacturing Systems*. Accepted for Publication.
3. **Mathesen, L.,** Pedrielli, G., Ng S.H., Zabinsky, Z. 2020. Stochastic Optimization With Adaptive Restart A Framework for Integrated Local and Global Learning. Submitted to *Journal of Global Optimization*. Accepted for Publication.
4. Pedrielli, G., Ng, S. H., Wang, S. (2020). Two Stage Sequential Optimization Approach: Generalization and Asymptotic Properties. Submitted to *European Journal of Operational Research*. Accepted for Publication.

5. Zhao, Q., Zhou, C., and Pedrielli, G. 2020. A Decision Support System for Data-driven Driver-Experience Augmented Vehicle Routing Problem. Accepted for publication on Asia Pacific Journal of Operational Research.
6. Pedrielli, G.^(*), Candan, K.S., Xu, J., Chen, C.-H., Lee, L.H., **Chen, X., Mathesen, L., and Inanlouganji, A.** (2019). Generalized Ordinal Learning Framework (Golf) for Decision Making with Future Simulated Data. Submitted to Asia Pacific Journal of Operational Research. Accepted for Publication.
7. Pedrielli, G., Liu, Y., Li, H., Lee, L.H., Chen, C.H., Shortle, J. (2019). Optimal Computing Budget Allocation for the Stochastic N-k Problem for Power Grids. Accepted for publication in IEEE Transactions on Reliability.
8. Pedrielli, G., Xing, Y., Peh, J.H., and Ng, S.H. (2019). A Real Time Simulation Optimization Framework for Vessel Collision avoidance and the case of Singapore Strait. Accepted for publication in IEEE Transactions on Intelligent Transportation Systems.
9. Zhu, Y., Pedrielli, G., and Lee L.H. (2018). TD-OCBA: Optimal Computing Budget Allocation and Time Dilation for Simulation Optimization of Manufacturing Systems. IISE Transactions. Accepted for publication.
10. Pedrielli, G., Matta, A., Alfieri, A. and Zhang, M. 2018. Design and control of manufacturing systems: a discrete event optimization methodology. International Journal of Production Research, 56(1-2), pp.543-564.
11. Pedrielli, G., Hongtao, C., Ng, S.H., Kister, T. and Bressan, S. (2017). A Framework for Real-Time Monitoring of Energy Efficiency of marine vessels. Energy, 145, 246-260.
12. Li, J., Liu, W., Pedrielli, G., Lee, L.H., and Chew, E.P., 2017. Optimal Computing Budget Allocation to Select the Non-dominated Systems-a Large Deviations Perspective. Accepted in IEEE Transactions on Automatic Control. *In press*.
13. Li, H., and Pedrielli, G. 2016. Shipment policy optimisation in a return supply chain for online retailers via stochastic discrete event simulation. International Journal of Simulation and Process Modelling, 11(3-4), pp.241-258.
14. Li, H., Pedrielli, G., Lee, L.H., and Chew, E.P., 2017. Enhancement of supply chain resilience through inter-echelon information sharing. Flexible Services and Manufacturing Journal, 29(2), pp.260-285.
15. Pedrielli, G., Lee, L. H., and Ng, S. H. (2015). Optimal bunkering contract in a buyer–seller supply chain under price and consumption uncertainty. Transportation Research Part E: Logistics and Transportation Review, 77, 77-94.
16. Pedrielli, G., Alfieri, A., and Matta, A. 2015. Integrated simulation–optimisation of pull control systems. International Journal of Production Research, 53(14), pp.4317-4336.
17. Alfieri, A., Matta, A., and Pedrielli, G. 2015. Mathematical programming models for joint simulation–optimization applied to closed queueing networks. Annals of Operations Research, 231(1), pp.105-127.
18. Pedrielli, G., Sacco, M., Terkaj, W., Tolio, T. “An HLA-based distributed simulation for networked manufacturing systems analysis”. Journal of Simulation, Vol. 6, Number 4, pp. 237-252. (2012) Operational Research Society Ltd.
19. Gagliardo, S., Giannini, F., Monti, M., Pedrielli, G., Terkaj, W., Sacco, M., Ghellere, M., and Salamone, F. 2015. An ontology-based framework for sustainable factories. Computer-Aided Design and Applications, 12(2), pp.198-207.

3.3 Manuscripts Submitted / In Revision

1. Ryan, C., Pedrielli, G., Kiatsabaipul, S., Zabinsky, Z.B., Smith, R.L. 2020. Monte-Carlo Fictitious Play. Submitted to INFORMS Operations Research.
2. Pedrielli, G., Barton, R.R. 2020. Metamodel-based quantile estimation for tardiness driven control of manufacturing systems. Submitted to Journal of Production and Operations Management. Under Review.
3. **Liu, M.**, Pedrielli, G., Sulč, P., Poppleton, E., Bertsekas, D. 2020. A New Roll-Out Approach to RNA Folding. Submitted to INFORMS JoC. Under second Review.
4. **Mathesen, L.** (40%), Pedrielli, G. (50%), Smith, R.L. (30%) 2021. Scaling Bayesian Optimization with Game Theory. Submitted to INFORMS Journal on Computing. Under Review.

3.4 Manuscripts in Preparation

1. Pedrielli G. (*,60%), Zabinsky (40%). 2018. A family of stochastic optimization algorithms for the fast optimization of water distribution networks. *To be Submitted to INFORMS Operations Research*.
2. Zabinsky, Z.B., Pedrielli, G., Huang, H., Chu, Y. 2020. A Framework for Multi-fidelity Modeling in Global Optimization Approaches. To be submitted to *Journal of Global Optimization*.
3. Pedrielli G., Sharma, G., Ramirez-Segura, C. 2020. Simulating Bio-Production of Individualized Therapies. *To be submitted to Journal of Simulation*
4. Pedrielli, G. (*,+), Pokutta, S. (+). 2019. Multi-Fidelity Optimization in the framework of Information Theory. To be submitted to *IIE Transactions*.
5. Pedrielli, G. (*,+), **Mathesen, L.**(+), Fainekos Georgios (+). Stochastic Optimization Driven Robust Sampling for Verification. To be submitted to *Automatica*.

3.5 Abstracts

1. G. Pedrielli, **A. Inanloughanji**. 2018. Simulating and analyzing cascading failures in power networks in disaster aftermath. *Inform's Annual Meeting*;
2. G. Pedrielli. 2018. Continuous Simulation Optimization with Model Mismatch using Gaussian Process Regression. *Inform's Annual Meeting*;
3. G. Pedrielli, **L. Mathesen**. High Dimensional Global Optimization Via Optimization Of Complimentary Communicating Low Dimensional Subspaces. *Inform's Annual Meeting*;
4. G. Pedrielli, **L. Mathesen**. Combining Exact Global Optimization And Nature-inspired Meta-heuristics: Revealing Robust Black-box Optimization Problem Solving Characteristics. *Inform's Annual Meeting*;
5. G. Pedrielli, **L. Mathesen**. 2017. Trust Based Optimization with Adaptive Restart: A Family of Global Optimization Algorithms. *Inform's Annual Meeting*.

3.6 Book Chapters Published

1. Pedrielli, G. (*), Tolio, T., Terkaj, W. and Sacco, M., 2012. Distributed Modeling of Discrete Event Systems. In *Discrete Event Simulations-Development and Applications*. InTech.
2. Pedrielli, G. (*), Lee, L.H., Chew, E. P., and Tan, K.C. (in print) Development of the Port of Singapore: A Historical Review. In T. F. Fwa (Ed.), *50 Years of Transportation in Singapore*. World Scientific Publishing, Singapore.
3. Pedrielli, G. (*), Lee, L.H., Chew, E.P, and White, C.C. (in print). Singapore: The future of Logistic Hubs. In T. F. Fwa (Ed.), *50 Years of Transportation in Singapore*. World Scientific Publishing, Singapore.

3.7 Invited Book Chapters Submitted / In Preparation

1. Chen, C.-H., Lee, L.H., and Pedrielli G.. Stochastic Simulation – An optimal computing budget allocation. Ongoing To Be Published by World Scientific Publishing.

3.8 Co-Editor for Thematic Journal Issues

1. *Journal of Flexible Services and Manufacturing*. Special Issue: “Simulation-Optimization in Manufacturing and Services”. Eds: Matta, A., Pedrielli, G., Jie, X., Van Nieuwenhuysse, I.

3.9 Refereed Conference Papers

1. **Mathesen, L.**(*), **Li, X.**, Pedrielli, G., Kandan, K.S. 2019. Global Optimization of High-Dimensional Problems via parallel decomposed Bayesian Optimization. Accepted to WSC 2019.
2. **Tsai, Y.A.**, Perego, R., Pedrielli, G., Zabinsky, Z.B., Candelieri, A., Huang, H., **Mathesen, L.** Stochastic Optimization for Feasibility Determination: an Application to Water Pump Operation in Water Distribution Network. Accepted for publication in 2018 INFORMS-WSC Conference, Gethenborg, Sweden.

3. **Inanlouganji, A.**, Pedrielli, G., Fainekos, G., Pokutta, S. 2018. Continuous Simulation-Optimization with Model Mismatch Using Gaussian Process Regression. Accepted for publication in 2018 INFORMS-WSC Conference, Gethenborg, Sweden.
4. Zhang, M., Matta, A., Alfieri, A., Pedrielli, G. 2018. Simulation-based Benders Cuts: a New Cutting Approach to Approximately Solve Simulation-optimization Problems. Accepted for publication in 2018 INFORMS-WSC Conference, Gethenborg, Sweden.
5. Sun, H., Pedrielli, G., Zhao, G., Bragagnolo, A., Zhou, C., Pan, R., Xu, W. 2018. Cyber Coordinated Simulation Models for Multi-Stage Additive Manufacturing of Energy Products. In Proceedings of the 2018 IEEE-CASE Conference, Munich, Germany.
6. Pedrielli, G., Ju, F. 2018. Simulation-Predictive Control for Manufacturing Systems. In Proceedings of the 2018 IEEE-CASE Conference, Munich, Germany.
7. **Mathesen, L.**, Pedrielli, G., and Ng, S.H. Trust region based stochastic optimization with adaptive restart: A family of global optimization algorithms. In Proceedings of Winter Simulation Conference (WSC), 2017 Winter, pp. 2104-2115. IEEE, 2017.
8. **Kang, Y., Mathesen, L.**, Pedrielli, G., Ju, F. 2017. Multi-Fidelity Modeling for Analysis of Serial Production Lines. In Proceedings of the 2017 IEEE-CASE Conference, Xi-An, China. Finalist for best student paper award.
9. Zhang, M., Matta, A., and Pedrielli, G. 2017. Simulation-Based Benders' Cuts generation for the Joint Workstation, Workload and Buffer Allocation Problem. In Proceedings of the 2017 IEEE-CASE Conference, Xi-An, China.
10. Zhang, M., Matta, A., and Pedrielli, G., 2016, December. Discrete event optimization: workstation and buffer allocation problem in manufacturing flow lines. In Proceedings of the 2016 Winter Simulation Conference (pp. 2879-2890). IEEE Press.
11. Pedrielli, G., and Ng, S.H., 2016, December. G-STAR: a new kriging-based trust region method for global optimization. In Proceedings of the 2016 Winter Simulation Conference (pp. 803-814). IEEE Press.
12. Li, H., Pedrielli, G., Chen, M., Lee, L.H., Chew, E.P., and Chen, C.H. 2016, December. V-shaped sampling based on Kendall-Distance to enhance optimization with ranks. In Proceedings of Winter Simulation Conference (WSC), 2016 (pp. 671-681). IEEE.
13. Pedrielli, G., Zhu, Y., Lee, L.H., and Li, H., 2016, December. Empirical analysis of the performance of variance estimators in sequential single-run ranking & selection: the case of time dilation algorithm. In Proceedings of the 2016 Winter Simulation Conference (pp. 738-748). IEEE Press.
14. Pedrielli, G., Vinsensius, A., Chew, E.P., Lee, L.H., Duri, A., and Li, H., 2016, December. Hybrid order picking strategies for fashion e-commerce warehouse systems. In Proceedings of the 2016 Winter simulation conference (pp. 2250-2261). IEEE Press.
15. R. Weng, Pedrielli, G., Lee, L. H., and Ng, S. H. (2015). A Dynamic Programming Approach for the Bunkering with Contract Problem. In Proceedings of the 2015 International Conference on Logistics and Maritime Studies. Hong Kong August 27-29, 2015.
16. Pedrielli, G., R. Weng, Huang, W., Lee, L. H., and Chew, E. P. (2015). Models for Bunkering Price Forecast. In Proceedings of the 2015 International Conference on Logistics and Maritime Studies. Hong Kong August 27-29, 2015.
17. Pedrielli, G., Chee, J. W., Lee, L. H., and Chew, E. P. (2015). A New Revenue-Based Empty Repositioning. In Proceedings of the 2015 International Conference on Logistics and Maritime Studies. Hong Kong August 27-29, 2015.
18. Pedrielli, G., Matta, A., and Alfieri, A. 2015, December. Discrete event optimization: Single-run integrated simulation-optimization using mathematical programming. In Winter Simulation Conference (WSC), 2015 (pp. 3557-3568). IEEE.
19. Pedrielli, G., and Ng, S.H., 2015, December. Kriging-based simulation-optimization: a stochastic recursion perspective. In Winter Simulation Conference (WSC), 2015 (pp. 3834-3845). IEEE.
20. Li, H., Li, Y., Lee, L.H., Chew, E.P., Pedrielli, G., and Chen, C.H., 2015, December. Multi-objective multi-fidelity optimization with ordinal transformation and optimal sampling. In Winter Simulation Conference (WSC), 2015 (pp. 3737-3748). IEEE.
21. Li, H., Zhu, Y., Chen, Y., Pedrielli, G., and Pujowidianto, N.A., 2015, December. The object-oriented discrete event simulation modeling: a case study on aircraft spare part management. In Proceedings of the 2015 Winter Simulation Conference (pp. 3514-3525). IEEE Press.

22. Pedrielli, G., Zhu, Y., and Lee, L.H.. June (2015). Single-Run Simulation Optimization through Time Dilation and Optimal Computing Budget Allocation. In Proceedings of the 10th conference on Stochastic Models of Manufacturing and Service Operations.
23. Matta, A., Pedrielli, G., and Alfieri, A. 2014, December. Event relationship graph lite: Event based modeling for simulation-optimization of control policies in discrete event systems. In Simulation Conference (WSC), 2014 Winter (pp. 3983-3994). IEEE.
24. Pedrielli, G., Alfieri, A., and Matta, A. 2014, August. Time Buffer Control System for multi-stage production lines. In Automation Science and Engineering (CASE), 2014 IEEE International Conference on (pp. 393-398). IEEE.
25. Chen, X., Pedrielli, G., and Ng, S.H. 2014, December. SNAT: Simulation-based search for navigation safety. The case of Singapore Strait. In Simulation Conference (WSC), 2014 Winter (pp. 1819-1830). IEEE.
26. Pedrielli G., Alfieri A., Matta, A. Mathematical Programming formulation for approximate simulation and optimization of closed-loop systems. In Proceedings of 8-th conference Stochastic Models of Manufacturing and Service Operations (SMMSO). Kusadasy, May 2011.
27. Pedrielli, G., Scavardone, P., Tolio, T., Sacco, M., and Terkaj, W., 2011, June. Simulation of complex manufacturing systems via HLA-based infrastructure. In Proceedings of the 2011 IEEE Workshop on Principles of Advanced and Distributed Simulation (pp. 1-9). IEEE Computer Society.
28. Terkaj, W., Pedrielli, G., Sacco, M. Virtual Factory Data Model. 2nd Workshop, OSEMA (Ontology and Semantic Web for Manufacturing), Graz, Austria, July 2012.
29. Alfieri, A., Matta, A., Pedrielli, G. 2013. Integrating Simulation Modeling and Optimization: an Event Based Approach. In Proceedings of Stochastic Models of Manufacturing and Service operations (SMMSO), May 2013, Germany.
30. Kaminsky, P., Pedrielli, G., Schruben, L.W., Yuen, M.K. 2013. Retrospective Optimization and Stochastic Approximation for Supply Chain Policy Optimization. In proceedings of ISERC, IIE Conference, May 18-22, San Juan, Puerto Rico, 2013.
31. Colledani, M., Pedrielli, G, Terkaj, W., Urgo, M. 2013. Virtual Integrated Platform for Manufacturing Systems Design. In proceedings of Conference on Manufacturing Systems 2013, Setubal, Portugal. June 2013.

3.10 Technical Papers (unrefereed)

1. Liu, C., Pedrielli, G. and Ng, S.H., 2014. eTSSO: Adaptive search method for stochastic global optimization under finite budget.
Available at: <https://pdfs.semanticscholar.org/ff70/adfeeb9cea3b877e92853dfcb80704a4acc8.pdf>.

4 Presentations

4.1 Summary

Invited Presentations External	8
Invited Presentations-ASU Internal	1
Invited Conference Presentations/Including Students	2
Peer-reviewed Conference Presentations ^a	30
Contributed Conference Presentations ^b	2

^aAll those in the conference proceedings

^b“Contributed” means that the faculty member, whether co-author or presenting author, has a conference presentation that was not peer-reviewed. In other words, there was no screening of the submission. The faculty member’s group submitted an abstract or paper and then they go the meeting to present. So, the “contributed conference presentations” catches any other presentation the faculty member was a part of (so not invited, not peer-reviewed). This category would also capture presentations at workshops, including those held at ASU. For clarity’s sake this will be renamed to “Non-refereed Conference Presentations”.

4.2 Invited Presentations External

1. Pedrielli, G. “Stochastic Optimization in the era of Intelligent Cyber Physical Systems”. Invited Seminar University of Arizona. January 10th, 2019. Tucson, Arizona. USA.
2. Pedrielli, G. “Learning Everywhere! Advancing Stochastic Optimization and Control of Complex non-linear Systems”. Invited Seminar at National University of Singapore. July 26th, 2018. Singapore.
3. Pedrielli, G. “Impact of Learning in non linear optimization”. Invited Seminar at George Mason University. February 23rd, 2018. Fairfax, Virginia. USA.
4. Pedrielli, G. “Learning and optimizing through simulation and “big” data”. Invited Seminar at National University of Singapore. August 7th, 2017. Singapore.
5. Pedrielli, G. “Simulation Optimization for Manufacturing Systems”. Invited Seminar, Pittsburgh University, January 10th 2016, Pittsburgh, USA.
6. Pedrielli, G. “Stochastic Optimization and Simulation for Smart Manufacturing”. Invited Seminar, Oklahoma State University, February 10th 2016, Stillwater, USA.
7. Pedrielli, G. “Event based methods for optimization of production systems”. Invited Seminar, University of Southern California, December 10th 2015, Los Angeles, USA.
8. Pedrielli, G. “Multi Fidelity simulation optimization”. Invited Seminar, Shanghai Jiao Tong University, November 20th 2015, Shanghai, China.
9. Pedrielli, G. “Performance evaluation and decision making for complex stochastic systems: a simulation-optimization perspective”. Invited Class For School of Transportation at National University of Singapore. November 13th 2015, Singapore.
10. Pedrielli, G. “Improving the use of data and simulation models in stochastic global optimization with limited computational budget: a surrogate based approach”. Faculty Talk Series CIDSE, ASU. October 27th 2016.

4.3 Invited Conference Presentations/Including Students

1. Mathesen, L., Pedrielli, G., Ng, S.H. 2017. Trust Region Based Stochastic Optimization with Adaptive Restart: A Family of Global Optimization Algorithms. In Proceedings of 2017 Winter Simulation Conference, Las Vegas, USA.
2. Zhang, M., Matta, A., Alfieri, A., Pedrielli, G. 2018. “Simulation-based Benders Cuts: a New Cutting Approach to Approximately Solve Simulation-optimization Problems”. In Proceedings of 2018 Winter Simulation Conference, Gotenburg, Sweden.

4.4 Contributed Conference Presentations

1. Pedrielli, G. 2018. “The Theory of Personalized-X: analysis and operation of data-poor dynamics rich systems”. Harvard Control Workshop, Julyth, 2018. Harvard University, Boston, USA.
2. Pedrielli, G., Fowler, J. 2017. “Discrete Event Optimization via Simulation in the Era of Big Data”. summer workshop of the INFORMS simulation Society (iSIM), July 31st 2017. Durham University. UK.

5 Professional Activities and Service

5.1 Summary

Editor, Associate Editor for peer-reviewed journals	2
International/national conferences chaired	NA
International/national conferences committees	1
International/national conferences sessions organized	7
International/national conference sessions chaired	7
Member of Editorial Board	2
Peer Reviewer for Journals	11
Proposal Review Service for Funding Agencies	1
ASU-level, Engineering School-level, and Unit-level Committees.	0,1,1
Graduate/Undergraduate Theses Committees	6
Chair of Faculty Search Committees	NA

5.2 Editor, Associate Editor for peer-reviewed journals

1. Journal of Simulation, Associate Editor;
2. Flexible Services and Manufacturing Journal, Associate Editor.

5.3 International/national conferences chaired

1. Poster Track chair INFORMS Winter Simulation Conference.

5.4 International/national conferences committees

1. INFORMS Winter Simulation Conference, Diversity Award Committee member (2017);
2. INFORMS Winter Simulation Conference, Diversity Award Committee President (2018);

5.5 International/national conferences sessions organized

1. INFORMS Annual Meeting 2016 conference (1): “Learning for Simulation and Simulation Optimization”;
2. INFORMS Winter Simulation Conference 2016 (1): “Logistics and Transportation for Manufacturing Systems”;
3. INFORMS Annual Meeting 2017 (2):
 - “Enhanced Estimation and Sampling in Multi-model Setting”;
 - “Advances in Simulation Optimization and its applications”.
4. Winter Simulation Conference 2017 (1): “Parallelization and Experimentation of Simulation Optimization Algorithms”;
5. INFORMS International 2018 (2):
 - “Modeling and algorithmic approaches for Critical Intelligent Systems”;
 - “Simulation and Optimization for Design and Control of Complex Systems”.

5.6 Member of Editorial Board

1. Journal of Simulation;
2. Flexible Services and Manufacturing Journal.

5.7 Peer Reviewer for Journals

1. Operations Research;
2. IISE Transactions;
3. Simulation Transactions;
4. IEEE Transactions on Automatic Control (**best reviewer recognition for 2016**);
5. IEEE Transactions on Automation Science and Engineering;
6. International Journal of Production Research;
7. Journal of Simulation;
8. Transportation Research Board;
9. Simulation Transactions;
10. Transportation Research Part E;
11. Transportation Research Part B;
12. GENO (Engineering Optimization).

5.8 Proposal Review Service for Funding Agencies

1. National Science Foundation (NSF) Directorate Engineering, Division CMMI, Program Operations Engineering.

5.9 ASU-level, Engineering School-level, and Unit-level Committees.

1. New Faculty Committee (Fulton School of Engineering);
2. Undergraduate Program Committee (School of CIDSE).

5.10 Graduate/Undergraduate Thesis Committee

1. Master Thesis:
 - (a) **Chair:** Yi-An Tsai. Graduated May 2018. Thesis: “Stochastic Optimization for Feasibility Determination: An Application to Water Pump Operation in Water Distribution Network”;
 - (b) **Chair:** Sundaravaradhan Rengarajan. June 2018. Thesis: “Performance analysis of a double crane with finite interoperational buffer capacity with multiple fidelity simulations”
 - (c) **Chair:** Raquel Camarena. June 2018. Thesis: “Stochastic Modeling and Optimization to Improve Identification and Treatment of Alzheimer’s Disease”
2. Ph.D.:
 - (a) Xilun Chen. CIDSE, Computer Science. Committee member
 - (b) Kerem Demirtas, CIDSE, Industrial Engineering. Committee member.
 - (c) Yinlin Fu, CIDSE, Industrial Engineering. Committee member.

6 Personnel: Student Supervision / Mentoring, Teaching, Dissertation Committees, Researchers, and Outreach

6.1 Summary

Mentored Personnel in US Academia (Tenure-track Positions)	NA
Postdoctoral Researchers	NA
Ph.D. Students Graduated	NA
Ph.D. Students Current	4
M.S. Students Graduated	3
M.S. Students Current	1
Undergraduate Students (Research)	2
High-School Students (Research)	NA
Middle-School Students	NA
Student Fellowships and Awards	2
Undergraduate Courses Taught, including New Course Development	NA
Graduate Courses Taught, including New Course Development	2
Average Teaching Evaluation Score for Undergraduate Courses taught at ASU	NA
Average Teaching Evaluation Score for Graduate Courses taught at ASU	3.85 (in class)
	3.13 (in class + online)

6.2 Ph.D. Students Current

1. Logan Mathesen. Started August 2016. Advisor;
2. Alireza Inanlouganji. Started August 2017. Advisor;
3. Menghan Liu. Started August 2018. Advisor;

6.3 M.S. Students Graduated

1. Yi-An Tsai. Graduated May 2018. Thesis: “Stochastic Optimization for Feasibility Determination: An Application to Water Pump Operation in Water Distribution Network”;
2. Sundaravaradhan Rengarajan. June 2018. Thesis: “Performance analysis of a double crane with finite inter-operational buffer capacity with multiple fidelity simulations”
3. Raquel Camarena. June 2018. Thesis: “Stochastic Modeling and Optimization to Improve Identification and Treatment of Alzheimer’s Disease”

6.4 M.S. Students Current

1. Amaya Sarkar;
2. Gaurav Sharm.

6.5 Undergraduate Students (Research)

1. Jessica Bistras (School of Sustainability);
2. Aashney Shah (School of CIDSE, IE Program).

6.6 Student Fellowships and Awards

1. Logan Mathesen, Dean's Fellowship;
2. Logan Mathesen, NSF Graduate Scholar Fellowship;
3. Logan Mathesen, Daniel Tran, Principle Cup INFORMS second placement.

6.7 Graduate Courses Taught, including New Course Development

1. Simulating Stochastic Systems, IEE 545;
2. Stochastic Operations Research, IEE 575;
3. Simulating Stochastic Systems, IEE 475