

**ANDREW KENNEDY SKILLING JARDINE**  
**CURRICULUM VITAE**



**OVERVIEW**

Dr. Andrew K.S. Jardine, Ph.D., C.Eng., M.I.Mech.E., M.I.E.T., P.Eng. FCAE, FIIE, FEIC, FISEAM (Hon.), is the Founding Director of the Centre for Maintenance Optimization and Reliability Engineering (C-MORE) at the University of Toronto. C-MORE's research is driven by close interactions with industry, in particular with C-MORE consortium members and with researchers at universities worldwide. Dr. Jardine is also Professor Emeritus in the Department of Mechanical and Industrial Engineering at U of T. He is the co-editor (with J.D. Campbell and J. McGlynn) of *Asset Management Excellence: Optimizing Equipment Life Cycle Decisions*, published by CRC Press in 2010. His most recent book is the 2<sup>nd</sup> edition of his earlier work, *Maintenance, Replacement and Reliability: Theory and Applications* (1973), published by CRC Press in 2013, co-authored with Dr. A.H.C. Tsang.

Professor Jardine studied at the Royal College of Science and Technology, Scotland, and obtained his undergraduate and Master's degrees in Mechanical Engineering from the University of Strathclyde, Scotland. He was awarded his PhD in Engineering Production by the University of Birmingham, England.

He has garnered an impressive array of awards, honours and tributes, including having been the Eminent Speaker to the Maintenance Engineering Society of Australia, and the first recipient of the Sergio Guy Memorial Award from the Plant Engineering and Maintenance Association of Canada in recognition of his outstanding contribution to the maintenance profession. He was Honorary Visiting Professor, Division of Operation and Maintenance Engineering, Lulea University of Technology, Lulea, Sweden, for 2007 – 2009. In 2008, he received the Award for Best Paper; presented in the category of Academic Developments and sponsored by the Salvetti Foundation, at the bi-annual conference of the European Federation of National Maintenance Societies in Brussels. In 2013, Dr. Jardine received the Lifetime Achievement Award from the International Society of Engineering Asset Management (ISEAM) and was elected a Fellow of both the Institute of Industrial Engineers and the Canadian Academy of Engineering. In 2016, he received a Distinguished Educator Award from the Industrial Engineering and Operations Management Society (IEOM) at their Detroit conference. In 2019, Dr. Jardine was elected a Fellow of the Engineering Institute of Canada. He is listed in Who's Who in Canada.

Besides writing, researching and teaching, Dr. Jardine has carried out innumerable consulting assignments with organizations around the world, including mines, government agencies, power and transit companies, and scores of others.



## **ACADEMIC QUALIFICATIONS**

B.Sc., Mechanical Engineering, University of Strathclyde, Scotland, 1964

M.Sc., Mechanical Engineering, University of Strathclyde, Scotland, 1965

Ph.D., Engineering Production, University of Birmingham, England, 1973

## **PROFESSIONAL REGISTRATIONS**

P.Eng. (Professional Engineer, Ontario, Canada)

C.Eng. (Chartered Engineer, U.K.)

MIMechE (Member, Institution of Mechanical Engineers, U.K.)

MIET (Member, Institution of Engineering Technologists, U.K.)

## **SOCIETY MEMBERSHIPS**

Member, Institute of Industrial & Systems Engineers, U.S.A.

Member, Operational Research Society, U.K.

### **SOCIETY MEMBERSHIP: HONOURS**

Fellow: Institution of Industrial & Systems Engineers, Elected in 2013

Fellow, Canadian Academy of Engineering, Elected in 2013

Fellow, International Society for Engineering Asset Management, Elected Honorary Fellow, 2014

Fellow, Engineering Institute of Canada, Elected 2019

## **UNIVERSITY EXPERIENCE**

2009- Present    Founding Director, Centre for Maintenance Optimization and Reliability Engineering and Professor Emeritus, Mechanical and Industrial Engineering, University of Toronto, Canada

1995-2009      Professor, Mechanical and Industrial Engineering, University of Toronto, Canada

1995-1997      Dean, Faculty of Business and Information Systems, The Hong Kong Polytechnic University (on leave from University of Toronto)

1986-1995      Professor and Chair, Industrial Engineering, University of Toronto

1985-1986      Visiting Professor, Management Science, University of Strathclyde, Scotland (on leave from Royal Military College of Canada)

1981-1986      Professor and Head, Engineering Management, Royal Military College of Canada

1979-1981      Associate Professor and Professor-In-Charge, Engineering Management, Royal Military College of Canada

1977-1979      Associate Professor, Business School, University of Windsor, Canada

1974-1975      Visiting Associate Professor, Faculty of Commerce, University of British Columbia, Canada (on leave from University of Birmingham, England)

1971-1977      Lecturer, Engineering Production, University of Birmingham, England

1966-1971      Lecturer, Department of Operational Research, University of Strathclyde, Scotland

## PUBLICATIONS

### BOOKS

1. Jardine, A.K.S., and A.H.C. Tsang. (2013). *Maintenance, Replacement and Reliability: Theory and Applications*, 2<sup>nd</sup> Edition. CRC Press/ Taylor and Frances. **Google Scholar listed 1036 citations as of February 2019.**
2. Campbell, J.D., A.K.S. Jardine, and J. McGlynn, eds. (2011). *Asset Management Excellence: Optimizing Life Cycle Costs*. CRC Press/ Taylor and Frances.
3. Jardine, A.K.S., and A.H.C. Tsang. (2006). *Maintenance, Replacement and Reliability: Theory and Applications*. CRC Press/ Taylor and Frances.
4. Campbell, J.D., and A.K.S. Jardine, eds. (2001). *Maintenance Excellence: Optimizing Asset Life Cycle Decisions*. New York: Marcel Dekker.
5. Jardine, A.K.S., C.S. Greensted, and J.D. Macfarlane. (1975). *Statistical Methods for Quality Control*. Heinemann.
6. Greensted, C.S., A.K.S. Jardine, and J.D. Macfarlane. (1974). *Essentials of Statistics in Marketing*. Heinemann.
7. Jardine, A.K.S. (1973). *Maintenance, Replacement and Reliability*. Pitman /Wiley.
8. Jardine, A.K.S., ed. (1970). *Operational Research in Maintenance*. Manchester University Press/ Barnes & Noble.

### JOURNAL PUBLICATIONS (2000 – 2018)

#### *Articles in refereed publications:*

1. Sharifi, M. (S), R. Kwon, and A.K.S. Jardine. (2016). "Valuation of Performance-Based Contracts for Capital Equipment: A Stochastic Programming Approach," *Engineering Economist*, Vol. 61, No. 1: 1-22.
2. Gocgun, Y., D. Banjevic, S. Taghipour, N. Montgomery, B. Harvey, A.K.S. Jardine, and A. Miller. (2015). "A Health Economic Analysis of Breast Cancer Screening Policies Using Simulation," *The Breast* Vol. 24, No.4: 440-448.
3. Jardine, A.K.S. (2014). Guest Editor: Special Issue on Engineering Economics in Reliability, Replacement and Maintenance, Part II, *Engineering Economist* Vol. 59, No. 4.
4. Jardine, A.K.S. (2014). Introduction and Guest Editor: Special Issue on Engineering Economics in Reliability, Replacement and Maintenance, Part I, *Engineering Economist* Vol. 59, No. 2: 89-90.
5. Trusevych, S.A., R.H. Kwon, and A.K.S. Jardine. (2014). "Optimizing Critical Spare Parts and Location Based on the Conditional Value-At-Risk Criterion," *Engineering Economist* Vol. 59, No. 2: 116-135.
6. Gocgun, Y., D. Banjevic, S. Taghipour, N. Montgomery, B. Harvey, and A.K.S. Jardine, (2013). "Condition-Based Maintenance and Cancer Progression Modelling," *Journal of Indian Association for Productivity, Quality & Reliability*. 40<sup>th</sup> Anniversary Volume: 151-158.
7. Taghipour S., D. Banjevic, A. Miller, N. Montgomery, A.K.S. Jardine, and B. Harvey. (2013). "Parameter Estimates for Invasive Breast Cancer Progression in the Canadian National Breast Screening Study," *British Journal of Cancer* Vol. 108: 542-548.
8. Tang, T., D. Lin, D. Banjevic, and A.K.S. Jardine. (2013). "Availability of a System Subject to Hidden Failure Inspected at Constant Intervals with Non-Negligible Downtime Due to Inspection and Downtime Due to Repair/Replacement," *Journal of Statistical Planning and Inference* Vol. 143:176-185.

9. Barisic A., S. Taghipour, D. Banjevic, A. Miller, N. Montgomery, A.K.S. Jardine, and B. Harvey. (2012). "Optimizing Canadian Breast Cancer Screening Strategies: A Perspective for Action," *Canadian Journal of Public Health* Vol. 103, No. 6.
10. Montgomery, N., D. Banjevic, and A.K.S. Jardine. (2012). "Minor Maintenance Actions and their Impact on Diagnostic and Prognostic CBM Models," *Journal of Intelligent Manufacturing* Vol. 23: 303–311.
11. Taghipour, S., D. Banjevic, J. Fernandes, A. Miller, N. Montgomery, A.K.S. Jardine, and B. Harvey. (2012). "Predictors of Competing Mortality to Invasive Breast Cancer Incidence in The Canadian National Breast Screening Study," *BMC Cancer* Vol. 12: 299.
12. Taghipour, S., D. Banjevic, J. Fernandes, A. Miller, N. Montgomery, B. Harvey, and A.K.S. Jardine. (2012). "Incidence of Invasive Breast Cancer in the Presence of Competing Mortality: The Canadian National Breast Screening Study," *Breast Cancer Research and Treatment* Vol. 134, No. 2: 839 – 851.
13. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2012). "Workforce Planning for Power Restoration in Electricity Delivery Industry: An Integrated Simulation-Optimization Approach," *IEEE Transactions on Power Systems* Vol. 27:442-449.
14. Ghodrati, B., D. Banjevic, and A.K.S. Jardine. (2012). "Product Support Improvement by Considering System Operating Environment: A Case Study on Spare Parts Procurement," *International Journal of Quality & Reliability Management* Vol. 29:436-450.
15. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2011). "Multi-Threaded Simulated Annealing for a Bi-Objective Maintenance Scheduling Problem," *International Journal of Production Research* Vol. 50:63-80.
16. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2011). "Workforce-Constrained Maintenance Scheduling for Military Aircraft Fleet: A Case Study," *Annals of Operations Research* Vol. 186, No. 1:295-316.
17. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2011). "Bi-Objective Workforce-Constrained Maintenance Scheduling: A Case Study," *Journal of the Operational Research Society* Vol. 62:1005-1018.
18. Louit, D., R. Pascual, D. Banjevic, and A.K.S. Jardine. (2011). "Condition-Based Spares Ordering for Critical Components," *Mechanical Systems and Signal Processing* Vol. 25: 1837–1848.
19. Tang, T., D. Lin, D. Banjevic, and A.K.S. Jardine. (2011). "Availability of a Periodically Inspected System under Perfect Repair," *Journal of Statistical Planning and Inference* Vol. 141: 610.
20. Taghipour S., D. Banjevic, and A.K.S. Jardine. (2011). "Prioritization of Medical Equipment for Maintenance Decisions," *Journal of Operational Research Society* Vol. 62:1666-1687.
21. Taghipour S., D. Banjevic, and A.K.S. Jardine. (2011). "Reliability Analysis of Maintenance Data for Complex Medical Devices," *Quality and Reliability Engineering International* Vol. 27:71-84.
22. Zuashkiani, A., H. Rahmandad, and A.K.S. Jardine. (2011). "Managing Maintenance Performance," *Journal of Quality and Maintainability Engineering* Vol. 17:74-92.
23. Tang, T., D. Lin, D. Banjevic, and A.K.S. Jardine. (2011). Erratum to "Availability of a Periodically Inspected System under Perfect Repair" [J. Statist. Plann. Inference Vol. 91: 77–90], *Journal of Statistical Planning and Inference* Vol. 141: 610.
24. Louit, D., R. Pascual, D. Banjevic, and A.K.S. Jardine (2011). "Condition-Based Spares Ordering for Critical Components," *Mechanical Systems and Signal Processing* Vol. 25:1837-1848.
25. Pascual, R., D. Louit, and A.K.S. Jardine. (2011). "Optimal Inspection Intervals for Safety Systems with Partial Imperfect Inspections," *Journal of the Operational Research Society* Vol. 62:2051-2062, on line at doi:10.1057/jors.2010.173.

26. Louit D., R. Pascual, D. Banjevic, and A.K.S. Jardine. (2011). "Optimization Model for Critical Spare Parts Inventories: A Reliability Approach," *Journal of the Operational Research Society* Vol. 62: 992-1004.
27. Taghipour, S., D. Banjevic, and A.K.S. Jardine. (2010). "Periodic Inspection Optimization Model for a Complex Repairable System," *Reliability Engineering and System Safety* Vol. 95: 944-952.
28. Louit, D., R. Pascual, and A.K.S. Jardine. (2010). "Optimization Models for Critical Spare Parts Inventories: A Reliability Approach," *Journal of Operational Research Society*, online at doi:10.1057/jors.2010.49.
29. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2010). "Impact of the Use-Based Maintenance Policy on the Performance of Cellular Manufacturing Systems," *International Journal of Production Research* Vol. 48, No. 8: 2233–2260.
30. Taghipour S., D. Banjevic, and A.K.S. Jardine. (2010). "Prioritization of Medical Equipment for Maintenance Decisions," *Journal of Operational Research Society*, online at dx.doi.org/10.1057/jors.2010.106.
31. Heng, A., A.C.C. Tan, J. Mathews, N. Montgomery, D. Banjevic, and A.K.S. Jardine. (2009). "Intelligent Condition-Based Prediction of Machinery Reliability," *Mechanical Systems and Signal Processing* Vol. 23: 1600–1614.
32. Louit D.M., R. Pascual, and A.K.S. Jardine. (2009). "A Practical Procedure for the Selection of Time-to-Failure Models Based on the Assessment of Trends in Maintenance Data," *Reliability Engineering and System Safety* Vol. 94, No. 10: 1618-1628.
33. Zuashkiani, A., D. Banjevic, and A.K.S. Jardine. (2009). "Estimating Parameters of Proportional Hazards Model Based on Expert Knowledge and Statistical Data," *Journal of the Operational Research Society* Vol. 60: 1621-1636.
34. Lugtigheid, D., D. Banjevic, and A.K.S. Jardine. (2008). "Component Repairs: When to Perform and What to Do?" *Reliability Engineering and System Safety* Vol. 93: 604-615.
35. Lugtigheid, D., X. Jiang, and A.K.S. Jardine. (2008). "A Finite Horizon Model for Repairable Systems with Repair Restrictions," *Journal of the Operational Research Society* Vol. 59, No. 10:1321-1331.
36. Jiang, R., and A.K.S. Jardine. (2008). "Health State Evaluation of an Item: A General Framework and Graphical Representation," *Reliability Engineering and System Safety* Vol. 93: 89-94.
37. Jardine, A.K.S., D. Banjevic, N. Montgomery, and A. Pak. (2008). "Repairable System Reliability: Recent Developments in CBM Optimization," *International Journal of Performability Engineering* Vol. 4: 205-214.
38. Lugtigheid, D., A.K.S. Jardine, and X. Jiang. (2007). "Optimizing the Performance of a Repairable System under a Maintenance and Repair Contract," *Quality and Reliability Engineering International* Vol. 23: 943-960.
39. Jiang R., and A.K.S. Jardine. (2007). "An Optimal Burn-in Preventive-Replacement Model Associated with a Mixture Distribution," *Quality and Reliability Engineering International* Vol. 23: 83-93.
40. Jardine, A.K.S., D. Lin, and D. Banjevic. (2006). "A Review of Machinery Diagnostics and Prognostics Implementing Condition-Based Maintenance," Invited Review, *Mechanical Systems and Signal Processing* Vol. 20, No. 2:1483-1510. **Google Scholar listed 3113 citations as of February 2019.**
41. Banjevic, D., and A.K.S. Jardine. (2006). "Calculation of Reliability Function and Remaining Useful Life for a Markov Failure Time Process," Institute of Mathematics and its Applications (IMA), *Journal of Management Mathematics* Vol. 17: 115-130.

42. Lin, D., D. Banjevic, and A.K.S. Jardine. (2006). "Using Principal Components in a Proportional Hazards Model with Applications in Condition-Based Maintenance," *Journal of the Operational Research Society* Vol. 57, No. 8: 910-919.
43. Zhan, Y., V. Makis, and A.K.S. Jardine. (2006). "Adaptive State Detection of Gearboxes under Varying Load Conditions Based on Parametric Modelling," *Mechanical Systems and Signal Processing* Vol. 20: 188-221.
44. Tsang, A.H.C., W.K. Yeung, A.K.S. Jardine, and P.K. Leung. (2006). "Data Management for CBM Optimization," *Journal of Quality in Maintenance Engineering* Vol. 12, No. 1: 37-51.
45. Zhan, Y.M., and A.K.S. Jardine. (2005). "Adaptive Autoregressive Modelling of Non-Stationary Vibration Signals under Distinct Gear States – Part I: Modelling," *Journal of Sound and Vibration* Vol. 286: 429-450.
46. Zhan, Y.M., and A.K.S. Jardine. (2005). "Adaptive Autoregressive Modelling of Non-Stationary Vibration Signals under Distinct Gear States – Part II: Experimental Analysis," *Journal of Sound and Vibration* Vol. 286: 451-476.
47. Jiang, R., and A.K.S. Jardine. (2005). "Two Optimization Models of the Optimum Inspection Problem," *Journal of the Operational Research Society* Vol. 56:1176-1183.
48. Lin, D., M. Wiseman, D. Banjevic, and A.K.S. Jardine. (2004). "An Approach to Signal Processing and Condition-Based Maintenance for Gearboxes Subject to Tooth Failure," *Mechanical Systems and Signal Processing* Vol. 18: 993-1007.
49. Lugtigheid, D., D. Banjevic, and A.K.S. Jardine. (2004). "Modeling Repairable Systems Reliability with Explanatory Variables and Repair and Maintenance Actions," *IMA Journal of Management Mathematics* Vol. 15: 89-110.
50. Zhan, Y., V. Makis, and A.K.S. Jardine. (2003). "Adaptive Model for Vibration Monitoring of Rotating Machinery Subject to Random Deterioration," *Journal of Quality in Maintenance Engineering* Vol. 9, No. 4: 351-375.
51. Vlok, P.J., J.L. Coetzee, D. Banjevic, A.K.S. Jardine, and V. Makis. (2002). "Optimal Component Replacement Decisions using Vibration Monitoring and the PHM," *Journal of the OR Society* Vol. 53: 193-202.
52. Jardine, A.K.S., D. Banjevic, M. Wiseman, and S. Buck. (2001). "Optimizing a Mine Haul Truck Wheel Motors' Condition Monitoring Program: Use of Proportional Hazards Modeling," *Journal of Quality in Maintenance Engineering* Vol. 7, No. 4: 286-301.
53. Liu, P.H., V. Makis, and A.K.S. Jardine. (2001). "Scheduling of the Optimal Tool Replacement Times in A Flexible Manufacturing Systems," Special Issue: Quality and Reliability Engineering, *IIE Transactions* Vol. 33, No. 6: 487-495.
54. Banjevic, D., A.K.S. Jardine, V. Makis, and M. Ennis. (2001). "A Control-Limit Policy and Software for CBM," *INFOR* Vol. 39, No. 1: 32-50.
55. Jiang, X., V. Makis, and A.K.S. Jardine. (2001). "Optimal Repair/Replacement Policy for a General Repair Model," *Advances in Applied Probability* Vol. 33, No. 1: 1-17.

**Other refereed contributions:**

Papers in refereed conference proceedings (not subsequently published in refereed journals in modified form):

1. Jardine, A.K.S. (2008). "Optimizing Condition-Based Maintenance (CBM) Decisions," Euro Maintenance, Brussels, April 8-10.
2. Sundin, P., N. Montgomery, and A.K.S. Jardine. (2007). "Pulp Mill On-Site Implementation of CBM Decision Support Software," International Conference of Maintenance Societies, Melbourne, Australia, May 22-24.

## MONOGRAPHS, BOOKS OR BOOK CHAPTERS

1. Jardine, A.K.S., S. Taghipour, B. Harvey, A. Miller, D. Banjevic, and N. Montgomery. (2012). "The Role of Condition Based Maintenance for Industrial Equipment and Cancer Screening." In *Proceedings of CMMNO 2012*, T. Fakhfakh et al., eds., pp. 395-401. Springer.
2. Jardine, A.K.S., and D. Banjevic. (2009). "Condition Monitoring." In *Encyclopaedia of Quantitative Risk Assessment*. John Wiley & Sons.
3. Safaei, N., D. Banjevic, and A.K.S. Jardine. (2008). "Multi-objective Simulated Annealing for a Maintenance Workforce Scheduling Problem: A Case Study." In *Global Optimization: Focus on Simulated Annealing*, C.M. Tan, ed., pp. 27-48. ARS Publishing.
4. Jardine, A.K.S., and D. Banjevic. (2005). "Interpretation of Condition Monitoring Data." In *Modern Statistical and Mathematical Models in Reliability*, A. Wilson, N. Limnios, S. Keller-McNulty, and Y. Armijo, eds. Series on Quality, Reliability and Engineering Statistics, Vol. 10, pp 263–278. World Scientific Publishing Co.

## NON-REFEREED PRESENTATIONS / PUBLICATIONS [SELECTED]

1. Jardine, A.K.S. (2017). "Evidence Based Asset Management," Keynote Speaker, Maintenance Forum, Budva, Montenegro, May 24-26.
2. Jardine, A.K.S. (2017). "The Application of Analytics to Optimize Condition Based Maintenance Decisions," Institute of Asset Management Conference, London, UK, November 21-23.
3. Jardine, A.K.S., (2017). "EBAM: Evidence Based Asset Management in the Era of Big Data," Keynote Speaker, Asociacion Colombiana de Ingenieros (COPIMERA), Medellin, Colombia, October 18-20.
4. Jardine, A.K.S., (2017). "Optimising Condition Based Maintenance Decisions: The Role of the Proportional Hazards Model," Keynote Speaker, Indian Operational Research Society Conference, Heritage Institute of Technology, Calcutta, December 21-23.
5. Jardine, A.K.S. (2014). "The Brave New World of Asset Management and the Integration of Emerging Technologies," Mainstream, Austin, Texas, June 16-19.
6. Jardine, A.K.S. (2014). "Physical Asset Management," Society for Maintenance and Reliability Professionals (SMRP) and Ontario Association of Certified Engineering Technicians and Technologists, Bahen Centre, University of Toronto, June 25
7. Jardine, A.K.S. (2014). "The Role of Evidence in Asset Management," Keynote Speaker, Congreso Internacional de Mantenimiento Predictivo, Confiabilidad y Lubricacion de Clase Mundial, Summit PreConLub, Monterrey, Mexico, August 27-28.
8. Jardine, A. K.S. (2014). "55000 and Evidence Based Asset Management (EBAM)," MAPLA 2014, Mantemin, 9<sup>th</sup> Encuentro Internacional de Mantenedores de Equipos Mina, Santiago, Chile, September 3-5.
9. Jardine, A.K.S. (2014). "Reliability and Optimization in the Mining Industry," Lassonde Institute of Mining Research Day, University of Toronto, October 15.
10. Jardine, A.K.S. (2014). "Optimization of Condition Based Maintenance (CBM) Decisions," Institution of Diesel and Gas Turbine Engines Fall Seminar, Ryerson University, Toronto, November 13.
11. Oliveira, A., R. Araujo, and A.K.S. Jardine. (2014). "Human-Centered Interfaces for Situation Awareness in Maintenance," Human Computer Interaction (HCI), International 2014, Crete, Greece, June 22-27.
12. Jardine, A.K.S. (2013). "The Role of Evidence in Asset Management," 15<sup>th</sup> EGAF, Catholic University of Chile, November 22.



13. Zuashkiani, A., and A.K.S. Jardine. (2010). "Coming Full Circle," *Industrial Engineer* Vol. 42, No. 4: 44-49. Invited Article.
14. Jardine, A.K.S. (2009). "On the Optimization of CBM Decisions for Repairable Equipment," Invited Keynote Presentation, COMADEM 2009, San Sebastian, Spain, June 9-11.
15. Jardine, A.K.S., and N. Montgomery. (2009). "Optimal Maintenance Decisions for Asset Managers," Invited Article, *Industrial Engineer* Vol. 41:6, 44-49.
16. Jardine, A.K.S. (2008). "Evidence-Based Asset Management," Invited Viewpoint, *Maintenance Technology*, December, p. 56.
17. Jardine, A.K.S., and D. Banjevic. (2007). "Condition Based Maintenance: Estimating the Remaining Useful Life of an Asset," 35<sup>th</sup> Annual Meeting of the Statistical Society of Canada, Conference, St. John's, Newfoundland, June 10-13.
18. Jardine, A.K.S. (2007). "Industry-Guided Research: Recent Developments in Maintenance Optimization," Invited Keynote Speaker, International Conference of Maintenance Societies, Melbourne, Australia, May 22-24.

#### CONFERENCE PROCEEDINGS [SELECTED]

1. Jardine, A.K.S. (2018). "An Analytic Toolbox for Evidence Based Asset Management," *Proceedings OMAINTEC 2018*, International Operations and Maintenance Conference in the Arab Countries, Cairo, Egypt, November 18-20.
2. Seecharan, T.S., B. Donmez, H.Y.W. Chen, and A.K.S. Jardine. (2016). "Simulator-Based Eco-drive Training for Fleet Drivers," *Proceedings of the 10<sup>th</sup> World Congress on Engineering Asset Management (WCEAM 2015)*, Tampere, Finland, September 28-30, pp. 545-552.
3. Aramon Bajestani, M., N. Montgomery, D. Banjevic, and A.K.S. Jardine. (2015). "Maintenance Resource Planning for Utility Poles in a Power Distribution Network," *Proceedings of the 61<sup>st</sup> Annual Reliability & Maintainability Symposium (RAMS 2015)*, Florida, January 29.
4. Oliveira, A, C. Van Volkenburg, A.K.S. Jardine, and R.B. de Araujo, (2015). "The Electronic Maintenance Situational Awareness Interface," *Proceedings of the 61<sup>st</sup> Annual Reliability & Maintainability Symposium (RAMS 2015)*, Florida, January 29.
5. Bjarnason, E.T.S., S. Taghipour, D. Banjevic, and A.K.S. Jardine. (2013). "Joint Optimization of Periodic Inspection and Inventory for a k-out-of-n System," *Proceedings of the IIE Annual Conference & Expo 2013*, San Juan, Puerto Rico, May 18-22.
6. Caudrelier, L.N., S. Taghipour, D. Banjevic, A.B. Miller, B.J. Harvey, and A.K.S. Jardine. (2013). "Simulation of Breast Cancer Occurrence and Progression in the Presence of Screening," *Proceedings of the IIE Annual Conference & Expo 2013*, San Juan, Puerto Rico, May 18-22, pp. 1720-1726.
7. Taghipour, S., D. Banjevic, N. Montgomery, and A.K.S. Jardine. (2013). "Modeling Breast Cancer Progression and Evaluating Screening Policies," *Proceedings of the Annual Reliability and Maintainability Symposium 2013*, San Juan, Puerto Rico, May 18-22.
8. Wong, E.L., A.K.S. Jardine, and D. Banjevic. (2011). "Incorporating Repair Information into Maintenance Optimization Models for Repairable Systems," Annual Reliability and Maintainability Symposium, Lake Buena Vista, FL, January.
9. Ghodrati, B., D. Banjevic, and A.K.S. Jardine. (2010). "Developing an Effective Spare Parts Estimation Results in Improved Machine Availability," RAMS, January 25-28.
10. Zuashkiani, A., D. Banjevic, and A.K.S. Jardine. (2006). "Incorporating Expert Knowledge when Estimating Parameters of the Proportional Hazards Model," Proceedings, Reliability and Maintainability Symposium, Newport Beach, California, January 23-26.

11. Montgomery, N., T. Lindquest, M-A. Garnero, R. Chevalier, R., and A.K.S. Jardine. (2006). "Reliability Functions and Optimal Decisions using Condition Data for EDF Primary Pumps," 9<sup>th</sup> International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Stockholm, Sweden, June 11-15.
12. Liyanage, J.P., J. March, and A.K.S. Jardine. (2006). "On Real-Time Performance Diagnostic and Prognostic Technologies and Intelligent Watchdog Agents for Physical Assets in North Sea," Euromaintenance, Basle, Switzerland, June 20-23.

#### **IMPORTANT EARLIER JOURNAL PUBLICATIONS (1969 – 1999)**

1. Jardine, A.K.S., T. Joseph, and D. Banjevic. (1999). "Optimizing Condition-Based Maintenance Decisions for Equipment Subject to Vibration Monitoring," *Journal of Quality in Maintenance Engineering* Vol. 5, No. 3: 192-202.
2. Tsang, A.H.C., A.K.S. Jardine, and H. Kolodny. (1999). "Measuring Maintenance Performance: A Holistic Approach," *International Journal of Operations and Production Management* Vol. 19, No. 7: 691-715.
3. Okumura, S., A.K.S. Jardine, and H. Yamashina. (1996). "An Inspection Policy of a Deteriorating Single Unit System Characterized by a Delay-time Model," *International Journal of Production Research* Vol. 34: 2441-2460.
4. Makis, V., and A.K.S. Jardine. (1991). "Optimal Replacement in the Proportional Hazards Model," *Information Systems and Operational Research* Vol. 30: 172-183.
5. Jardine, A.K.S., P.M. Anderson, and D.S. Mann. (1987). "Application of the Weibull Proportional Hazard Model to Aircraft and Marine Engine Failure Data," *Quality and Reliability Engineering International* Vol. 3: 77-827.
6. Jardine, A.K.S., and J.A. Buzacott. (1985). "Equipment Reliability and Maintenance," *European Journal of Operational Research* Vol. 19, No. 3: 285-296.
7. Jardine, A.K.S., T.J. Goldrick, and J. Stender. (1976). "The Use of Annual Maintenance Cost Limits for Vehicle Fleet Replacement," Institution of Mechanical Engineers, Automobile Division, *Proceedings of the Institution of Mechanical Engineers* Vol. 190.
8. Armitage, W., and A.K.S. Jardine. (1969). "Maintenance Performance: A Decision Problem," *International Journal of Production Research* Vol. 7, No. 1.