

Journal Article

- **Efficient force prediction for incremental sheet forming and experimental validation**
Li, Yanle, Liu, Zhaobing, Lu, Haibo, Daniel, W. J. T. (Bill), Liu, Sheng and Meehan, Paul A. (2014) Efficient force prediction for incremental sheet forming and experimental validation. *International Journal of Advanced Manufacturing Technology*, : .
- **Analysis of the non-Markov parameter in continuous-time signal processing**
Varghese, J., Bellette, P. A., Weegink, K. J., Bradley, A. P. and Meehan, P. A. (2014) Analysis of the non-Markov parameter in continuous-time signal processing. *Physical Review E*, 89 2: .
- **Investigation of the effect of relative humidity on lateral force in rolling contact and curve squeal**
Liu, Xiaogang and Meehan, Paul A. (2014) Investigation of the effect of relative humidity on lateral force in rolling contact and curve squeal. *Wear*, 310 1-2: 12-19.
- **Modelling and optimization of surface roughness in incremental sheet forming using a multi-objective function**
Liu, Zhaobing, Liu, Sheng, Li, Yanle and Meehan, Paul A. (2014) Modelling and optimization of surface roughness in incremental sheet forming using a multi-objective function. *Materials and Manufacturing Processes, Latest articles* : 1-40.
- **Multi-pass deformation design for incremental sheet forming: Analytical modeling, finite element analysis and experimental validation**
Liu, Zhaobing, Daniel, William J. T., Li, Yanle, Liu, Sheng and Meehan, Paul A. (2014) Multi-pass deformation design for incremental sheet forming: Analytical modeling, finite element analysis and experimental validation. *Journal of Materials Processing Technology*, 214 3: 620-634.
- **Simulation and experimental observations of effect of different contact interfaces on the incremental sheet forming process**
Li, Yanle, Liu, Zhaobing, Daniel, W. J. T. (Bill) and Meehan, P. A. (2014) Simulation and experimental observations of effect of different contact interfaces on the incremental sheet forming process. *Materials and Manufacturing Processes*, 29 2: 121-128.
- **"Does god play dice with corrugations?": environmental effects on growth**
Meehan, P. A., Bellette, P. A. and Horwood, R. J. (2013) "Does god play dice with corrugations?": environmental effects on growth. *Wear*, : .
- **Validation of a prediction model for tangent rail roughness and noise growth**
Jiang, S., Meehan, P. A., Bellette, P. A., Thompson, D. J. and Jones, C. J. C. (2013) Validation of a prediction model for tangent rail roughness and noise growth. *Wear, In Press, Corrected Proof* : 1-12.
- **Field statistical and finite element analysis of rail squats**
Farjoo, Mohammadali, Daniel, William, Bellette, Paul and Meehan, Paul A. (2013) Field statistical and finite element analysis of rail squats. *Engineering Fracture Mechanics*, 109 : 117-129.

- Efficient micro-electrode recording modeling using a filtered point process**

Weegink, Kristian J., Bellette, Paul A., Varghese, John J., Silburn, Peter A., Meehan, Paul A. and Bradley, Andrew P. (2013) Efficient micro-electrode recording modeling using a filtered point process. *arXiv Quantitative Biology: Neurons and Cognition*, 1307 5250: 1-22.
- Vertical wall formation and material flow control for incremental sheet forming by revisiting multistage deformation path strategies**

Liu, Zhaobing, Li, Yanle and Meehan, Paul Anthony (2013) Vertical wall formation and material flow control for incremental sheet forming by revisiting multistage deformation path strategies. *Materials and Manufacturing Processes*, 28 5: 562-571.
- Experimental investigation of mechanical properties, formability and force measurement for AA7075-O aluminum alloy sheets formed by incremental forming**

Liu, Zhaobing, Li, Yanle and Meehan, Paul Anthony (2013) Experimental investigation of mechanical properties, formability and force measurement for AA7075-O aluminum alloy sheets formed by incremental forming. *International Journal of Precision Engineering and Manufacturing*, 14 11: 1891-1899.
- Investigation of the effect of lateral adhesion and rolling speed on wheel squeal noise**

Liu, Xiaogang and Meehan, Paul A. (2013) Investigation of the effect of lateral adhesion and rolling speed on wheel squeal noise. *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*, 227 5: 469-480.
- Railway rolling noise prediction: field validation and sensitivity analysis**

Jiang, S., Meehan, P. A., Thompson, D. J. and Jones, C. J. C. (2013) Railway rolling noise prediction: field validation and sensitivity analysis. *International Journal of Rail Transportation*, 1 1-2: 110-127.
- Stress intensity factors around a 3D squat form crack and prediction of crack growth direction considering water entrapment and elastic foundation**

Farjoo, Mohammadali, Pal, Sarvesh, Daniel, William J.T. and Meehan, Paul A. (2012) Stress intensity factors around a 3D squat form crack and prediction of crack growth direction considering water entrapment and elastic foundation. *Engineering Fracture Mechanics*, 94 : 37-55.
- Modelling a squat form crack on a rail laid on an elastic foundation**

Farjoo, Mohammadali, Daniel, William and Meehan, Paul A. (2012) Modelling a squat form crack on a rail laid on an elastic foundation. *Engineering Fracture Mechanics*, 85 : 47-58.
- Trajectory optimization of a mining dragline using the method of Lagrange multipliers**

McInnes, C. H. and Meehan, P. A. (2011) Trajectory optimization of a mining dragline using the method of Lagrange multipliers. *International Journal of Robust and Nonlinear Control*, 21 14: 1677-1692.
- Adhesive tool wear in the cold roll forming process**

Galakhar, Alexander S., Gates, Jeffrey D., Daniel, William J. T. and Meehan, Paul A. (2011) Adhesive tool wear in the cold roll forming process. *Wear*, 271 11-12: 2728-2745.

- **Field and theoretical investigation of the mechanism of corrugation wavelength fixation under speed variation**

Batten, R. D, Bellette, P. A., Meehan, P. A., Horwood, R. J. and Daniel, W. J.T. (2011) Field and theoretical investigation of the mechanism of corrugation wavelength fixation under speed variation. *Wear*, 271 1-2: 278-286.

- **Investigation of a transitional wear model for wear and wear-type rail corrugation prediction**

Vuong, T. T., Meehan, P. A., Eadie, D. T., Oldknow, K., Elvidge, D., Bellette, P. A. and Daniel, W. J. (2011) Investigation of a transitional wear model for wear and wear-type rail corrugation prediction. *Wear*, 271 1-2: 287-298.

- **Validation of a tangent track corrugation model with a two disk test rig**

Bellette, P. A., Meehan, P. A. and Daniel, W. J. T. (2011) Validation of a tangent track corrugation model with a two disk test rig. *Wear*, 271 1-2: 268-277.

- **A novel sheet metal forming method-Millipede forming**

Ding, Shichao, Meehan, Paul A. and Daniel, William J. T. (2011) A novel sheet metal forming method-Millipede forming. *Journal of Materials Processing Technology*, 211 3: 376-381.

- **Contact induced wear filtering and its influence on corrugation growth**

Bellette, P. A., Meehan, P. A. and Daniel, W. J. T. (2010) Contact induced wear filtering and its influence on corrugation growth. *Wear*, 268 11-12: 1320-1328.

- **A case study of wear-type rail corrugation prediction and control using speed variation**

Meehan, P. A., Bellette, P. A., Batten, R. D., Daniel, W. J. T. and Horwood, R. J. (2009) A case study of wear-type rail corrugation prediction and control using speed variation. *Journal of Sound and Vibration*, 325 1-2: 85-105.

- **Wear transitions in a wear coefficient model**

Vuong, T. T. and Meehan, P. A. (2009) Wear transitions in a wear coefficient model. *Wear*, 266 9-10: 898-906.

- **Prediction of Roll Profile Wear in the Cold Roll Forming Process**

Galakhar, A., Daniel, W.J.T. and Meehan, P.A. (2009) Prediction of Roll Profile Wear in the Cold Roll Forming Process. *Key Engineering Materials*, 410-411 : 643-660.

- **Effects of wheel passing frequency on wear-type corrugations**

Meehan, P.A. and Daniel, W.J.T. (2008) Effects of wheel passing frequency on wear-type corrugations. *Wear*, 265 9-10: 1202-1211.

- **Effects of variable pass speed on wear-type corrugation growth**

Bellette, P., Meehan, P.A. and Daniel, W.J.T. (2008) Effects of variable pass speed on wear-type corrugation growth. *Journal of Sound and Vibration*, 314 3-5: 616-634.

- **Equivalence of four-point and three-point rainflow cycle counting algorithms**

McInnes, C. and Meehan, P. A. (2008) Equivalence of four-point and three-point rainflow cycle counting algorithms. *International Journal of Fatigue*, 30 3: 547-559.

- [Analysis of rail corrugation in cornering](#)

Daniel, W.J.T., Horwood, R.J., Meehan, P. A. and Wheatley, N. (2008) Analysis of rail corrugation in cornering. *Wear*, 265 9-10: 1183-1192.

- [Modelling the effects of friction modifiers on rail corrugation in cornering](#)

Daniel, W. J.T., Chen, C.-Y. and Meehan, P. A. (2008) Modelling the effects of friction modifiers on rail corrugation in cornering. *Vehicle System Dynamics: International Journal of vehicle mechanics and mobility*, 46 9: 845-866.

- [Optimising slew torque on a mining dragline via a four degree of freedom dynamic model](#)

McInnes, Charles H. and Meehan, Paul A. (2008) Optimising slew torque on a mining dragline via a four degree of freedom dynamic model. *Australian Journal of Mechanical Engineering*, 6 2: 159-164.

- [Prediction of chaotic instabilities in a dragline bucket swing](#)

Meehan, Paul A and Austin, Kevin J (2006) Prediction of chaotic instabilities in a dragline bucket swing. *International Journal of Non-linear Mechanics*, 41 2: 304-312.

- [Analysis of chaotic instabilities in a rotating body with internal energy dissipation](#)

Meehan, P. A. and Asokanathan, S. F. (2006) Analysis of chaotic instabilities in a rotating body with internal energy dissipation. *International Journal of Bifurcation And Chaos*, 16 1: 1-19.

- [On the chaotic instability of a nonsliding liquid-filled top with a small spheroidal base via Melnikov-Holmes-Marsden integrals](#)

Kuang, L., Meehan, P. A. and Leung, A. Y. T. (2006) On the chaotic instability of a nonsliding liquid-filled top with a small spheroidal base via Melnikov-Holmes-Marsden integrals. *Nonlinear Dynamics*, 46 1-2: 113-147.

- [On the chaotic rotation of a liquid-filled gyrostat via the Melnikov-Holmes-Marsden integral](#)

Kuang, JL, Meehan, PA and Leung, A (2006) On the chaotic rotation of a liquid-filled gyrostat via the Melnikov-Holmes-Marsden integral. *International Journal of Non-linear Mechanics*, 41 4: 475-490.

- [Suppressing chaos via Lyapunov-Krasovskii's method](#)

Kuang, JL, Meehan, PA and Leung, AYT (2006) Suppressing chaos via Lyapunov-Krasovskii's method. *Chaos Solitons & Fractals*, 27 5: 1408-1414.

- [Prediction of the growth of wear-type rail corrugation](#)

Meehan, P. A., Daniel, W. and Campey, T. (2005) Prediction of the growth of wear-type rail corrugation. *Wear*, 2587-8: 1001-1013.

- [Nonlinear dynamics of a satellite with deployable solar panel arrays](#)

Kuang, JL, Meehan, PA, Leung, AYT and Tan, SH (2004) Nonlinear dynamics of a satellite with deployable solar panel arrays. *International Journal of Non-linear Mechanics*, 39 7: 1161-1179.

- [Control of chaotic instabilities in a spinning spacecraft with dissipation using Lyapunov's method](#)
Meehan, P. A. and Asokanathan, S. F. (2002) Control of chaotic instabilities in a spinning spacecraft with dissipation using Lyapunov's method. *Chaos Solitons and Fractals*, 13 9: 1857-1869.
- [Control of chaotic instability in a dual-spin spacecraft with dissipation using energy methods](#)
Meehan, PA and Asokanathan, SF (2002) Control of chaotic instability in a dual-spin spacecraft with dissipation using energy methods. *Multibody System Dynamics*, 7 2: 171-188.
- [Control of chaotic motion in a dual-spin spacecraft with nutational damping](#)
Meehan, P. A. and Asokanathan, S. F. (2002) Control of chaotic motion in a dual-spin spacecraft with nutational damping. *Journal of Guidance, Control and Dynamics*, 25 2: 209-214.
- [Vibration instability in rolling mills: Modeling and experimental results](#)
Meehan, PA (2002) Vibration instability in rolling mills: Modeling and experimental results. *Journal of Vibration And Acoustics-transactions of The Asme*, 124 2: 221-228.
- [Non-linear vibration of a torsional system driven by a Hooke's joint](#)
Asokanathan, S. F. and Meehan, P. A. (2000) Non-linear vibration of a torsional system driven by a Hooke's joint. *Journal of Sound and Vibration*, 233 2: 297-310.

Conference Publication

- [Taguchi optimization of process parameters for forming time in incremental sheet forming process](#)
Liu, Zhaobing, Li, Yanle, Daniel, Bill and Meehan, Paul (2014). Taguchi optimization of process parameters for forming time in incremental sheet forming process. In: , Advances in Materials and Processing Technologies XV. *15th International Conference on Advances in Materials and Processing Technologies, AMPT 2012*, Wollongong, NSW, Australia, (137-143). 23 September 2012.
- [An analytical model for deformation path design in multistage incremental sheet forming process](#)
Liu, Z., Li, Y., Bill, D. and Paul, M. (2013). An analytical model for deformation path design in multistage incremental sheet forming process. In: *AMPT 2013: 16th International Conference on Advances in Materials & Processing Technologies*, Taipei, Taiwan, (). 22-26 September, 2013.
- [Dynamic tractional behaviour analysis and control for a DC locomotive](#)
Tian, Ye, Daniel, W. J. T. (Bill), Liu, Sheng and Meehan, Paul A. (2013). Dynamic tractional behaviour analysis and control for a DC locomotive. In: *WCRR 2013: 10th World Congress of Railway Research*, Sydney, NSW, Australia, (). 25-28 November, 2013.
- [Experimental study and efficient prediction on forming forces in incremental sheet forming](#)
Li, Y., Liu, Z., Lu, H., Bill, D. and Paul, M. (2013). Experimental study and efficient prediction on forming forces in incremental sheet forming. In: *AMPT 2013: 16th International Conference on Advances in Materials & Processing Technologies*, Taipei, Taiwan, (). 22-26 September, 2013.

- **Study on step depth for part accuracy improvement in incremental sheet forming process**

Lu, H., Li, Y., Liu, Z., Liu, S. and Paul, M. (2013). Study on step depth for part accuracy improvement in incremental sheet forming process. In: *AMPT 2013: 16th International Conference on Advances in Materials & Processing Technologies*, Taipei, Taiwan, (). 22-26 September, 2013.

- **The effect of friction modifiers on wheel squeal and friction-creep curves in lateral direction**

Liu, Xiaogang and Meehan Paul A. (2013). The effect of friction modifiers on wheel squeal and friction-creep curves in lateral direction. In: *WCRR 2013: 10th World Congress of Railway Research*, Sydney, NSW, Australia, (). 25-28 November, 2013.

- **The modeling of wheel squeal in the time domain and its validation**

Liu, Xiaogang and Meehan, Paul (2013). The modeling of wheel squeal in the time domain and its validation. In: , Proceedings of Meetings on Acoustics - ICA 2013. *21st International Congress on Acoustics, ICA 2013 - 165th Meeting of the Acoustical Society of America*, Montreal, QC United States, (). 2-7 June 2013.

- **An efficient stochastic based model for simulating microelectrode recordings of the deep brain**

Weegink, K. J., Varghese, J. J., Bellette, P. A., Coyne, T., Silburn, P. A. and Meehan, P. A. (2012). An efficient stochastic based model for simulating microelectrode recordings of the deep brain. In: Sabine Van Huffel, Carlos Correia, Ana Fred and Hugo Gamboa, Proceedings of Biosignals 2012, International Conference on Bio-Inspired Systems and Signal Processing. *5th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC)*, Vilamoura, Portugal, (76-84). 1-4 February 2012.

- **Simulating micro electrode recordings from deep brain surgery for applications in a clinical framework**

Weegink, K. J., Varghese, J, Bellette, P., Coyne, T., Silburn, P. and Meehan, P. (2012). Simulating micro electrode recordings from deep brain surgery for applications in a clinical framework. In: , Abstracts of WFN XIX World Congress on Parkinson's Disease and Related Disorders. *WFN XIX World Congress on Parkinson's Disease and Related Disorders*, Shanghai, China, (S225-S225). 11-14 December 2011.

- **Stress intensity factors around a 3D squat form crack on a rail surface laid on an elastic foundation**

Farjoo, Mohammadaili, Daniel, William and Meehan, Paul A. (2012). Stress intensity factors around a 3D squat form crack on a rail surface laid on an elastic foundation. In: , Proceedings: 9th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems (CM 2012). *9th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems (CM 2012)*, Chengdu, China, (146-159). 27-30 August 2012.

- **A method of predicting variable speed rail corrugation growth using standard statistical moments**

Batten, R. D., Bellette, P. A. and Meehan, P. A. (2011). A method of predicting variable speed rail corrugation growth using standard statistical moments. In: David J. Mee and Ian Hillock,

Proceedings of Acoustics 2011. *Acoustics 2011*, Gold Coast, QLD, Australia, (1-6). 2-4 November 2011.

- **Investigation about the effect of angle of attack and relative humidity on wheel squeal**

Liu, X., Bellette, P., Milne, C. and Meehan, P. A. (2011). Investigation about the effect of angle of attack and relative humidity on wheel squeal. In: David J. Mee and Ian Hillock, *Acoustics 2011: Breaking New Ground: Proceedings of the Annual Conference of the Australian Acoustical Society. Acoustics 2011: Breaking New Ground*, Gold Coast, Australia, (1-7). 2-4 November 2011.

- **Investigation of Wheel Squeal Characteristics using a Rolling Contact Two Disk Test Rig**

Meehan, Paul A., Bellette, Paul, Xiaogang Liu, Cameron Milne and Anderson, D. (2011). Investigation of Wheel Squeal Characteristics using a Rolling Contact Two Disk Test Rig. In: , *Proceedings of the 9th World Conference on Railway Research. 9th World Conference on Railway Research*, Lille, France, (). 22-26th May 2011.

- **Investigation of the non-markovity spectrum as a cognitive processing measure of deep brain microelectrode recordings**

Meehan, Paul A., Bellette, Paul, Bradley, Andrew P., Castner, Joanna E., Chenery, Helen J., Copland, David A., John Varghese, Coyne, T. and Peter Silburn (2011). Investigation of the non-markovity spectrum as a cognitive processing measure of deep brain microelectrode recordings. In: F. Babiloni, A. Fred, J. Filipe and H. Gamboa, *Proceedings of the International Conference on Bio-Inspired Systems and Signal Processing. BIOSIGNALS 2011 - 4th International Conference on Bio-Inspired Systems and Signal Processing*, Rome, Italy, (144-150). 26-29 January 2011.

- **Railway rolling noise prediction under European conditions**

Jiang, S., Meehan, P. A., Thompson, D. J. and Jones, C. J. C. (2011). Railway rolling noise prediction under European conditions. In: David J. Mee and Ian Hillock, *Acoustics 2011: Breaking New Ground: Proceedings of the Annual Conference of the Australian Acoustical Society. Acoustics 2011: Breaking New Ground*, Gold Coast, Australia, (1-8). 2-4 November 2011.

- **Theoretical and experimental analysis of the Non Markov Parameter to detect low frequency synchronisation in time series analysis**

Varghese, J. J., Weegink, K. J., Bellette, P. A., Coyne, T., Silburn, P. A. and Meehan, P. A. (2011). Theoretical and experimental analysis of the Non Markov Parameter to detect low frequency synchronisation in time series analysis. In: Nigel Lovell, *Proceedings of the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society. 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS)*, Boston, MA, United States, (). 30 August - 3 September 2011.

- **Thickness distribution and forming strategy analysis for two point Incremental Forming with a male die**

Liu, Zhaobing, Meehan, Paul and Bellette, Paul (2011). Thickness distribution and forming strategy analysis for two point Incremental Forming with a male die. In: Prasad Yarlagadda, Yun-Hae Kim, Zhijiu Ai and Xiaodong Zhang, *Materials processing technology : selected, peer reviewed papers from the 2011 International Conference on Materials and Products Manufacturing Technology*

(ICMPMT 2011). *2011 International Conference on Materials and Products Manufacturing Technology, ICMPMT 2011*, Chengdu, China, (452-455). 28-30 October 2011.

- **Metallurgical study of rail squats**

Valente, Carlos, Daniel, William J. T. and Meehan, Paul A. (2010). Metallurgical study of rail squats. In: David Bond and John Dring, *CORE 2010 Conference on Railway Engineering Proceedings: Rail - rejuvenation and renaissance. CORE 2010 Conference on Railway Engineering*, Wellington, New Zealand, (346-353). 12-14 December 2010.

- **Model-based estimation of rail profile based on axlebox accelerometers**

Meehan, P. A., Bellette, P., Daniel, W. J. T., Horwood, R., Petticrew, N. and Orange, N. (2010). Model-based estimation of rail profile based on axlebox accelerometers. In: , *CORE2010 [electronic resource] : rail - rejuvenation & renaissance : Conference on Railway Engineering : Conference Proceedings. CORE 2010: Rail, Rejuvenation and Renaissance*, Wellington, New Zealand, (222-229). 12-14 December 2010.

- **Probabilistic Prediction of Wheel Squeal under Field Humidity Variation**

Meehan, P. A., Bellette, P. A., Jones, C. and Anderson, D. (2010). Probabilistic Prediction of Wheel Squeal under Field Humidity Variation. In: , *Proceedings of 20th International Congress on Acoustics, ICA 2010. 20th International Congress on Acoustics*, Sydney, Australia, (561-576). 23-27 August 2010.

- **Field and theoretical investigation of the mechanism of corrugation wavelength fixation under speed variation**

Batten, R.D., Bellette, P.A., Meehan, P.A., Horwood, R.J. and Daniel, W.J.T. (2009). Field and theoretical investigation of the mechanism of corrugation wavelength fixation under speed variation. In: , *Proceedings of CM2009. 8th International Conference on contact Mechanics and Wear of Rail/Wheel Systems*, Firenze, Italy, (295-304). 15-18 September, 2009.

- **Investigation into the effect of asymmetric train speed distribution on rail corrugation growth in cornering**

Batten, R.D., Bellette, P.A. and Meehan, P.A. (2009). Investigation into the effect of asymmetric train speed distribution on rail corrugation growth in cornering. In: Anthony C. Zander and Carl Q. Howard, *Acoustics 2009: Research to Consulting : Proceedings of the annual conference of the Australian Acoustical Society. Acoustics 2009: Research to Consulting*, Adelaide, Australia, (1-7). 23-25 November 2009.

- **Investigation of a transitional wear model for wear prediction and control in rolling contact**

Vuong, T.T., Meehan, P.A., Eadie, D.T., Oldknow, K., Elvidge, D., Bellette, P.A. and Daniel, W.J.T. (2009). Investigation of a transitional wear model for wear prediction and control in rolling contact. In: , *Proceedings of CM2009. 8th International Conference on contact Mechanics and Wear of Rail/Wheel Systems*, Firenze, Italy, (277-286). 15-18 September, 2009.

- **Tangent track corrugation model validation with a two disk test rig**

Bellette, P.A., Meehan, P.A. and Daniel, W.J.T. (2009). Tangent track corrugation model validation with a two disk test rig. In: , *Proceedings of CM2009. 8th International Conference on contact Mechanics and Wear of Rail/Wheel Systems*, Firenze, Italy, (11-20). 15-18 September, 2009.

- [Chaotic signal analysis of Parkinson's Disease STN Brain Signals](#)

Meehan, P.A. and Bellette, P. (2008). Chaotic signal analysis of Parkinson's Disease STN Brain Signals. In: , CHASOS 2008 Chaotic Modeling and Simulation International Conference. *CHAOS 2008*, Greece, (232-241). 3-6 June 2008.

- [A case study on the effect of speed variation on the growth of wear-type rail corrugation](#)

Meehan, P. A., Bellette, P., Daniel, W. J. T. and Horwood, R. (2007). A case study on the effect of speed variation on the growth of wear-type rail corrugation. In: , 14th International Congress on Sound Vibration. *ICSV14*, Cairns, Australia, (182-189). 9-12 July 2007.

- [A method of approximate tool wear analysis in cold roll forming](#)

Galakhar, A. S., Meehan, P. A., Daniel, W. J. T. and Ding, S. C. (2007). A method of approximate tool wear analysis in cold roll forming. In: Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan, Proceedings of the 5th Australasian Congress on Applied Mechanics (ACAM 2007). *5th Australasian Congress on Applied Mechanics (ACAM 2007)*, Brisbane, Australia, (703-708). 10-12 December, 2007.

- [A model of the wear due to the rolling contact of a wheel over a general rail profile](#)

Bellette, P., Meehan, P.A. and Daniel, W.J.T. (2007). A model of the wear due to the rolling contact of a wheel over a general rail profile. In: , 14th International Congress on Sound Vibration. *ICSV14*, Cairns, Australia, (1-8). 9-12 July 2007.

- [Implicit finite element study of non-steady effects in cold roll forming](#)

Daniel, W. J. T. and Meehan, P. A. (2007). Implicit finite element study of non-steady effects in cold roll forming. In: Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan, Proceedings of the 5th Australasian Congress on Applied Mechanics (ACAM 2007). *5th Australasian Congress on Applied Mechanics (ACAM 2007)*, Brisbane, Australia, (576-581). 10-12 December, 2007.

- [Optimising slew torque on a mining dragline via a four degree of freedom dynamic model](#)

McInnes, Charles H. and Meehan, Paul A. (2007). Optimising slew torque on a mining dragline via a four degree of freedom dynamic model. In: Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan, Proceedings of the 5th Australasian Congress on Applied Mechanics (ACAM 2007). *5th Australasian Congress on Applied Mechanics (ACAM 2007)*, Brisbane, Australia, (402-407). 10-12 December, 2007.

- [The effects of passing speed distribution on rail corrugation growth rate](#)

Batten, R. D., Meehan, P. A., Daniel, W. J. T., Bellette, P. A. and Horwood, R. J. (2007). The effects of passing speed distribution on rail corrugation growth rate. In: Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan, Proceedings of the 5th Australasian Congress on Applied Mechanics (ACAM 2007). *5th Australasian Congress on Applied Mechanics (ACAM 2007)*, Brisbane, Australia, (265-270). 10-12 December, 2007.

- [Wear transitions in a wear coefficient model](#)

Vuong, T. T. and Meehan, P. A. (2007). Wear transitions in a wear coefficient model. In: Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan, Proceedings of the 5th Australasian Congress on Applied Mechanics (ACAM 2007). *5th Australasian Congress on Applied Mechanics (ACAM 2007)*, Brisbane, Australia, (171-176). 10-12 December, 2007.

- **A new relaxation method for roll forming problems**

Ding, S., Daniel, W. J. T. and Meehan, P. A. (2006). A new relaxation method for roll forming problems. In: J. A. C. Martins, H. C. Rodrigues, J. A. C. Ambrosio and et al., III European Conference on Computational Mechanics: Book of Abstracts. *III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering*, Lisbon, Portugal, (536-536). 5-8 June 2006.

- **Analysis of rail corrugation in cornering**

Daniel, W J T, Horwood, R J, Meehan, P A and N, N (2006). Analysis of rail corrugation in cornering. In: Drs Peter Mutton and Bill Thomas, 7th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems. *7th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems*, Brisbane, Australia, (159-167). 25-27 September 2006.

- **Effects of wheel passing frequency on wear-type corrugations**

Meehan, P A and Daniel, W J T (2006). Effects of wheel passing frequency on wear-type corrugations. In: Drs Peter Mutton and Bill Thomas, 7th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems. *7th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems*, Brisbane, Australia, (189-198). 25-27 September 2006.

- **Investigation into the effect of speed variation on the growth of wear-type rail corrugation**

Bellette, P. A., Meehan, P A and Daniel, W J T (2006). Investigation into the effect of speed variation on the growth of wear-type rail corrugation. In: Terrance Mc Minn, First Australasian Acoustical Societies' Conference. *First Australasian Acoustical Societies' Conference*, Christchurch, New Zealand, (227-234). 20-22 November 2006.

- **Wear-type rail corrugation prediction: Field study**

Daniel, W J T, Horwood, R J, Meehan, P A and Wheatley, N (2006). Wear-type rail corrugation prediction: Field study. In: , Conference on Railway Engineering CORE 2006. *Conference on Railway Engineering CORE 2006*, 30 April - 03 May 2006, (513-519). Melbourne, Victoria, Australia.

- **Reducing dragline fatigue via improved operation feedback**

McInnes, C. H. and Meehan, P. A. (2005). Reducing dragline fatigue via improved operation feedback. In: H Gurgenci, M Hood, P Lever and P Knights, 2005 Australian Mining Technology Conference - New Technologies to Produce More with Less. *Proceedings of the 2005 Australian Mining Technology Conference*, Freemantle, Western Australia, (189-196). 27-28 September 2005.

- **A closed form analytical solution for a simplified wear-type rail corrugation model**

Song, N. and Meehan, P. A. (2004). A closed form analytical solution for a simplified wear-type rail corrugation model. In: D Mee, R Hooker and I Hillock, Proceedings of Acoustics 2004. *Proceedings of Acoustics 2004*, Gold Coast, Australia, (227-232). 3-5 November 2004.

- [Wear-type rail corrugation prediction: passage time delay effects](#)
Meehan, P. A. and Daniel, W.J.T. (2004). Wear-type rail corrugation prediction: passage time delay effects. In: D Mee, R Hooker and I Hillock, Proceedings of Acoustics 2004. *Proceedings of Acoustics 2004*, Gold Coast, Australia, (11-16). 3-5 November 2004.
- [Issues in dynamic modelling to predict growth of rail corrugations](#)
Daniel, W.J.T. and Meehan, P. A. (2003). Issues in dynamic modelling to predict growth of rail corrugations. In: Joseph Mathew, Proceedings of the 10th Asia-Pacific Vibration Conference - Volume 1. *Asia-Pacific Vibration Conference*, Gold Coast, Australia, (81-86). 12-14 November 2003.
- [Modelling and Suppression of Attitude Instabilities for a Spacecraft in Earth Orbit](#)
Starkoff, P. E. and Meehan, P. A. (2003). Modelling and Suppression of Attitude Instabilities for a Spacecraft in Earth Orbit. In: David J. Mee, Proceedings of the 10th Australian International Aerospace Congress, Brisbane, July, 2003 ; and 14th National Space Engineering Symposium 2003. *Century of Aerospace Brisbane 2003*, Brisbane, Queensland, Australia, (). 29 July - 1 August 2003.
- [Wear-type rail corrugation predication and prevention](#)
Meehan, P. A., Daniel, W.J.T. and Campey, T. J. (2003). Wear-type rail corrugation predication and prevention. In: , Proceedings 6th International Conference in Mechanics and Wear of Rail/wheel Systems (CM2003). *Proceedings 6th International Conference in Mechanics and Wear of Rail/wheel Systems (CM2003)*, Sweden, (445-454). 10-13 June 2003.
- [Duty monitoring and duty-based maintenance on mining equipment](#)
Guan, Zhiqiang, Gurgenci, Hal and Meehan, Paul (2002). Duty monitoring and duty-based maintenance on mining equipment. In: , Proceedings of the 3rd Asia Pacific Conference on Systems Integrity and Maintenance. *3rd Asia Pacific Conference on Systems Integrity and Maintenae*, Hilton Cairns, Australia, (115-120). 25-27 September, 2002.
- [External force resolution from a dynamic, coupled mechanical-structural-electrical system: Application in Longwall Mining](#)
Reid, A. W., Gurgenci, H. and Meehan, P. A. (2002). External force resolution from a dynamic, coupled mechanical-structural-electrical system: Application in Longwall Mining. In: Pemberton, M. Turner, I. Jacobs, P. and ., The fifth Biennial Engineering Mathematics and Applications Conference. *The fifth Biennial Engineering Mathematics and Applications Ce*, Queensland University of Technology, Brisbane, (169-173). 29/09/02 - 02/10/02.
- [How to manage machine duty to sustain high production rates](#)
Gurgenci, H., McAree, P.R., Meehan, P. A. and Guan, Z. (2002). How to manage machine duty to sustain high production rates. In: Clifford and L., CMMI Congress 2002 - International Codes, Technology and Sustainability for the Minerals Industry. *CMMI Congress 2002*, Cairns, Queensland, Australia, (135-140). 27-28 May, 2002.

Edited Outputs

- [Proceedings of the Fifth Australasian Congress on Applied Mechanics](#)

Proceedings of the Fifth Australasian Congress on Applied Mechanics (2007) . Edited by Martin Veidt, Faris Albermani, Bill Daniel, John Griffiths, Doug Hargreaves, Ross McAree, Paul Meehan and Andy Tan. *Fifth Australasian Congress on Applied Mechanics (ACAM 2007)*, 10–12 December, 2007, Brisbane, Australia.

Other Outputs

- **Assembly and method for press forming a deformable material**
Meehan, P.A., Daniel, W.J.T. and Ding, S. (2008). Assembly and method for press forming a deformable material. *WO/2008/144832*.
- **Analytical and numerical verification of a simplified rail corrugation model**
Campey, T. J. and Meehan, P. A. (2003) *Analytical and numerical verification of a simplified rail corrugation model* St. Lucia: Div. of Mech. Eng., The Univ. of Qld.
- **Field testing of the Possum rail corrugation measurement device**
Campey, T. J., Meehan, P. A. and Daniel, W. J. T. (2003) *Field testing of the Possum rail corrugation measurement device* St. Lucia: Division of Mechanical Engineering, The University of Queensland
- **Initial Possum measurements of corrugation on the Beenleigh line**
Horwood, R. J., Meehan, P. A. and Daniel, W.J.T. (2003) *Initial Possum measurements of corrugation on the Beenleigh line* St. Lucia: Div. of Mech. Eng., The Univ. of Qld.
- **Rail corrugation growth prediction via stability analysis**
Meehan, P. A., Daniel, W.J.T. and Campey, T. J. (2003) *Rail corrugation growth prediction via stability analysis* St. Lucia: Div. of Mech. Eng., The Univ. of Qld.
- **Rail corrugation on the Hellidon Line**
Horwood, R. J. and Meehan, P. A. (2003) *Rail corrugation on the Hellidon Line* St. Lucia: Div. of Mech. Eng., The Univ. of Qld.
- **Testing the Possum for corrugation measurements**
Campey, T. J. and Meehan, P. A. (2003) *Testing the Possum for corrugation measurements* St. Lucia: Div. of Mech. Eng. The Univ. of Qld.
- **A two degree of freedom mathematical model for the prediction of wear-type rail corrugation**
Campey, T. J. and Meehan, P. A. (2002) *A two degree of freedom mathematical model for the prediction of wear-type rail corrugation* Brisbane: Division of Mechanical Engineering, The Univ. of Qld
- **Verification of a two degree of freedom numerical model for the prediction of rail corrugation**
Campey, T. J. and Meehan, P. A. (2002) *Verification of a two degree of freedom numerical model for the prediction of rail corrugation* Brisbane: Division of Mechanical Engineering, The Univ. of Qld
- **NONLINEAR INSTABILITIES IN ROTATING MULTIBODY SYSTEMS**

Meehan, Paul Anthony (1997). *NONLINEAR INSTABILITIES IN ROTATING MULTIBODY SYSTEMS* PhD Thesis, Engineering, University of Queensland.