



### Books/Thesis:

Whelan, B.W. and **Taylor, J.A.** (2013) Precision Agriculture for Grain Production Systems. CSIRO Publishing, Dickson, ACT, Australia (8 Chapters; 208p) ISBN:9780643107472.

**Taylor, J.A.** (2004) Precision Viticulture and Digital Terroir: Investigations into the application of information technology in Australian vineyards. Ph.D. Thesis. The University of Sydney (available at [www.digitalterroirs.com](http://www.digitalterroirs.com)).

**Taylor, J.A.** (1997) Factors Influencing the Temporal Variability of Wheat Yields, BScAgr Thesis, The University of Sydney.

### Chapters in Books:

Acevedo-Opazo, C., López-Olivari, R., Jara-Rojas, F., Valdés- Gómez, H., Figueri, Q. and **Taylor, J.A.** (2014) Model for spatial extrapolation of stomatal conductance on a young drip-irrigated olive orchard cv. Arbequina under semi-arid condition. Acta Hort. (ISHS) 1057, p357-362. [http://www.actahort.org/books/1057/1057\\_42.htm](http://www.actahort.org/books/1057/1057_42.htm)

Manfrini, L., Pierpaoli, E., **Taylor, J.A.**, Morandi, B., Losciale, P., Zibordi, M., Corelli Grappadelli, L. and Bastias, R.M. (2012) Precision Fruit Growing: How to Collect and Interpret Data on Seasonal Variation in Apple Orchards. In: XXVIII International Horticultural Congress on Science and Horticulture for People (IHC2010): International Symposium on Plant Physiology from Cell to Fruit Production System. Acta Hort. (ISHS) 932, p 461-469. ISBN: 978-90-66051-18-8. [http://www.actahort.org/books/932/932\\_67.htm](http://www.actahort.org/books/932/932_67.htm).

Acevedo-Opazo, C. Jara-Rojas, F., Valdés-Gomez, H., Ortega-Farias, S., **Taylor, J.A.** and Tisseyre, B. (2011) Towards the spatial prediction model of vine water status using auxiliary information. In: VI International Symposium on Irrigation of Horticultural Crops. Acta Hort. (ISHS) 889, p151-158. ISBN: 978-90-66057-13-5. [http://www.actahort.org/books/889/889\\_16.htm](http://www.actahort.org/books/889/889_16.htm).

de Gruijter, J.J, McBratney, A.B. and **Taylor, J.A.** (2010) Sampling for high resolution soil mapping. Chapter 1 In: Proximal Soil Sensing: Eds. R.A. Viscarra Rossel, A.B. McBratney and B. Minasny. Progress in Soil Science series. Springer. Heidelberg, Germany. ISBN: 978-90-481-8858-1.

**Taylor, J.A.**, Short, M, McBratney, A.B. and Wilson, J. (2010). Comparison of the ability of multiple soil sensors to predict soil properties in a Scottish potato production system. Chapter 33 In: Proximal soil sensing: Eds. R.A. Viscarra Rossel, A.B. McBratney and B. Minasny. Progress in Soil Science series. Springer. Heidelberg, Germany ISBN: 978-90-481-8858-1

**Taylor, J.A.** and Odeh, I.O.A. (2006) Comparing discriminant analysis with binomial logistic regression, regression kriging and multi-indicator kriging for mapping salinity risk in northwest New South Wales, Australia. In: Digital Soil Mapping: An Introduction. Eds. P. Lagacherie, A.B. McBratney and M. Voltz. Developments in Soil Science 31 (C), p455-464, Elsevier Publishing. ISBN: 978-0-444-52958-9.

Praat, J-P, A.F. Bollen, D. Gillgren, **J. Taylor**, A. Mowat, and N. Amos. (2003) Using Supply Chain Information: Mapping Pipfruit and Kiwifruit Quality. In: Quality In Chains - An Integrated View on Fruit and Vegetable Quality. Acta Hort. (ISHS) 604, p377-385. ISBN: 978-90-66059-76-4. [http://www.actahort.org/books/604/604\\_40.htm](http://www.actahort.org/books/604/604_40.htm).

### Submitted:

Leinonen I, Chen, H and **Taylor J.A.** (XXXX) Modelling Potato Growth. In: Achieving sustainable cultivation of potatoes Vol.2. Ed. Dr Stuart Wale. Burleigh Dodds Science Publishing. (*Submitted*)

### Major reviews and Project Reports:

**Taylor, J.A.** and Whelan, B.M. (2012) Feasibility of Remote Sensing to Detect Psa Infected Vines or Vines at Risk of Psa Infection. Report to Zespri International Ltd, Project V11261, 18p.

Whelan, B.M. and **Taylor, J.A.** (2010) PA Education and Training Modules for the Grains Industry. Project US00036. ACPA, University of Sydney for the Grains Research and Development Corporation (available from <http://www.sydney.edu.au/agriculture/pal>)

**Taylor, J.A.**, McBratney, A.B. and Hedges, S. (2008) Understanding Spatial Variation in Sweet corn Production. Report to Horticulture Australia Ltd. Project VG07035, 58p

ACPA (2007) Incorporating precision agriculture into Australian farm management. Project US00017. Report delivered as part of the GRDC Strategic Initiative Program 09: Precision Agriculture (2002-07). CD publication

Praat, J-P, Bollen F., Gillgren D., **Taylor J.**, Mills, L. and Kirkby, R. (2007) Targeted Spatial Sampling Systems for Management of Fruit Quality. Report to Zespri Innovation, Zespri International Ltd, Project TZ0665

**Taylor, J.A.**, Short, M., Ancev, T. Rodgers, D. and McBratney, A.B. (2006) Scoping study to assess the application of precision agriculture for vegetable production. Report to Horticulture Australia Ltd. Project VG05060, 60p

Praat, J-P, Bollen F., Gillgren D., **Taylor J.**, Sander, G., Kemp O. (2004) Precision Horticulture Parts A, B and C, Fruit quality and gross margin maps. Report to Zespri Innovation, Zespri International Ltd, Project 588, 112p

Faine, J., McBratney, A. and **Taylor, J.** 2001. HWCPIDGIS: A Preliminary Environmental Geographic Information System for the Hunter Wine Country Private Irrigation District. Report commissioned by the Hunter Wine Country Private Irrigation District.

#### Articles/notes/communications in refereed journals:

Yang, H. Yang, G., Gaulton, R., Zhao, C., Li, Z., **Taylor, J.**, Wicks, D., Minchella, A., Chen, E. "In-season Biomass Estimation of Oilseed Rape (*Brassica napus* L.) Using Fully Polarimetric SAR Imagery". Precision Agriculture (*Under revision*)

**Taylor, J.A.**, Link, K., Taft, T., Jakubowski, R., Joy, P., Martin, M., Hoffman, J., Jankowski, J. and Bates, T.R. (XXXX). A protocol to map vine size in commercial single high-wire trellis vineyards using 'off-the-shelf' proximal canopy sensing systems. Catalyst (*n Press*)

**Taylor, J.A.**, Sanchez, L., Sams, B., Haggerty, L., Jakubowski, R., Djafour, S. and Bates, T.R. (2016) Evaluation of a grape yield monitor for use mid-season and at harvest. J. Int. Sci. Vigne Vin, 50(2), pp. 57-63 (doi:10.20870/oenone.2016.50.2.784)

Lobos, G.A., Acevedo-Opazo, C., Guajardo-Moreno, A., Valdés-Gómez, H., **Taylor, J.A.**, Laurie, V.F. (2015) Effects of kaolin-based particle film and fruit zone netting on cabernet-sauvignon grapevine physiology and fruit quality. J. Int. Sci. Vigne Vin, 49 (2), pp. 137-144

Valdés-Gómez, H., Guajardo, A., Jara-Rojas, F., Acevedo-Opazo, C., **Taylor, J.A.** (2015) Study of the within-plant spatial variability of stomatal conductance on a young 'Arbequina' olive orchard under drip-irrigated and semi-arid conditions | [Estudio de la variabilidad espacial intraplanta de la conductancia estomática en un huerto joven de olivos cultivar 'Arbequina' regado por goteo creciendo bajo condiciones semiáridas]. Idesia, 33(3) p43-48

**Taylor, J.A.**, Mowat, A.D., Bollem, A.F. And Whelan, B.M. (2014) Early season detection and mapping of *Pseudomonas syringae* pv. *actinidae* infected kiwifruit (*Actinidia sp.*) orchards. N.Z. J. Crop Hort. Sci. 42(4) pp. 303-311 (doi:10.1080/01140671.2014.894543)

**Taylor, J.A.** and Bates, T.R. (2013) Temporal and Spatial Relationships in Pruning Mass of Concord Vines. Aust. J. Grape Wine Res. 19(3) p401-408 (doi:10.1111/ajgw.12035).

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- Taylor, J.A.** and Bates, T.R. (2013) A discussion on the significance associated with Pearson's correlation analysis in Precision Agriculture studies. *Precis. Agric.*, 14(5), p558-564. (doi:10.1007/s11119-013-9314-9)
- Guillaume, S., Charnomordic, B., Tisseyre, B. and **Taylor, J.** (2013) Soft computing-based decision support tools for spatial data. *International Journal of Computational Intelligence Systems*, 6(1) p18-33. (doi:10.1080/18756891.2013.818185)
- Taylor, J.A.** Jacob, F., Galleguillos, M., Prevot, L., Guix-Hebard, N. and Lagacherie, P. (2013) The utility of remotely-sensed vegetative and terrain covariates at different spatial resolutions in modelling soil and watertable depth (for digital soil mapping). *Geoderma*, 193-94, p83-93. (doi:10.1016/j.geoderma.2012.09.009).
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- Taylor, J.A.** and Bates, T.R. (2012) A research note on sampling and estimating average pruning weights in Concord grapes. *Am. J Enol. Vit.*, 63(4), p559-563. (doi:10.5344/ajev.2012.12069).
- Taylor, J.A.**, Acevedo-Opazo, C., Pellegrino, A., Ojeda, H. and Tisseyre, B. (2012) Can within-season grapevine predawn leaf water potentials be predicted from meteorological data in non-irrigated Mediterranean vineyards? *J. Int. Sci. Vigne Vin*, 46(3), p221-232.
- Taylor, J.A.**, Acevedo-Opazo C., Guillaume S., Ojeda H. and Tisseyre B. (2011) A comment on inter-field spatial extrapolation of vine (*Vitis vinifera* L.) water status. *J. Int. Sci. Vigne Vin*, 45(2), p121-124.
- Taylor, J.A.** and Whelan, B.M. (2011) Selection of ancillary data to derive production management units in sweetcorn (*Zea Mays* var. *rugosa*) using MANOVA and an information criterion. *Precis. Agric.* 12(4), p519-533. (doi: 10.1007/s11119-010-9195-0).
- Taylor, J.A.**, Hedges, S. and Whelan, B.M. (2010) Analysis of the spatial variability of production attributes in sweet corn. *N.Z. J. Crop Hort. Sci.* 38 (3) p225-231 (doi: 10.1080/01140671.2010.503951).
- Acevedo-Opazo, C., Tisseyre, B., **Taylor, J.A.**, Ojeda, H. and Guillaume, S. (2010) A model for the spatial prediction of water status in vines (*Vitis vinifera* L.) using high resolution ancillary information. *Precis. Agric.* 11(4) p358-378 (doi: 10.1007/s11119-010-9164-7).
- Pedroso, M., **Taylor, J.A.**, Tisseyre, B., Charnomordic, B and Guillaume, S. (2010) A segmentation algorithm for the delineation of management zones. *Comput. Electron. Agric.* 70, p199-208 (doi:10.1016/j.compag.2009.10.007).
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- Taylor, J.A.** Coulouma, G., Lagacherie, P. and Tisseyre, B. (2009) Mapping soil units within a vineyard using statistics associated with spatial data and factorial discriminant analysis. *Geoderma*, 153, p278-284 (doi:10.1016/j.geoderma.2009.08.014).
- Whelan, B.M., **Taylor, J.A.** and Hassall, J.A. (2009) Site-specific variation in wheat grain protein concentration and wheat grain yield measured on an Australian farm using harvester-mounted on-the-go sensors. *Crop Pasture Sci.* 60(9) p808-817 (doi:10.1071/CP08343 1836-0947/09/090808).
- Manfrini, L., **Taylor, J.A.** and Corelli Grappadelli, L. (2009). Spatial analysis of the effect of fruit thinning on apple cop load. *Europ. J. Hort. Sci.*, 74(2), p54-60.
- Taylor, J.A.**, McBratney, A.B. and Whelan, B.M. (2007) Establishing management classes for broadacre grain production. *Agron. J.* 99(5), p1366-1376 (doi:10.2134/agronj2007.0070).
- Tisseyre, B., Ojeda, H. and **Taylor, J.** (2007) New technologies and methodologies for site-specific viticulture. *J. Int. Sci. Vigne Vin*, 41(2), p63-76.
- Taylor, J.A.**, Praat, J-P. and Bollen, A. F. (2007) Within-orchard spatial variability in kiwifruit quality and implications for fruit quality sampling. *HortScience.* 42(2), p1-5.

Cousens, R.D., Dale, M.R.T., **Taylor, J.**, Law, R., Moerkerk, M. and Kembel, S. (2006) Interpretation of causes of pattern in communities where environmental change is rapid and species longevity is short. *J. Veg. Sci.*, 17, p509-524.

Daniel, R., **Taylor, J.** and Guest, D. (2006) Distribution and occurrence of *Phytophthora cinnamomi* at Middle Head and North Head, Sydney Harbour. Australia. *Plant Path.*, 35, p569-571 (doi:10.1071/AP06054 0815-3191/06/050569).

Clifford, D., McBratney, A.B., **Taylor, J.** and Whelan, B.M. (2006) Generalized analysis of spatial variation in yield monitor data. *J. Agr. Sci.*, 144, p45-51 (doi:10.1017/S0021859606005892).

**Taylor, J.A.** and Minasny, B. (2006) A protocol for converting qualitative point soil pit survey data into continuous soil property maps. *Aust. J. Soil Res.*, 44, p543-550 (doi:10.1071/SR06060 0004-9573/06/050543).

Tisseyre, B. and **Taylor, J.** (2005) Viticulture de Precision: Variabilite spatiale et stabilite temporelle des parametres quantitatifs a un niveau intra-parcellaire. *Progres Agricole et Viticole*, 122, No22 – Special SITEVI p481-487.

Pringle, M.J., McBratney, A.B., Whelan, B.M. and **Taylor, J.A.** (2003). A preliminary approach to assessing the opportunity for site-specific crop management in a field, using a yield monitor. *Agr. Syst.*, 76, p273-292.

#### *Submitted:*

Manfrini, L., Corelli Grappadelli, L., Morandi, B., Losciale, P., **Taylor, J.A.** "Assessing the variability in yield and maturity in a 'Gala' apple orchard using a simple forward and backward management unit modelling approach to assist with orchard management". *Submitted – Scientia Horticulturae*

#### **Refereed full length conference papers:**

Launspach, M., **Taylor, J.A.** and Wilson, J.M. (2017) Can temperatures from an online weather forecast service be suitable for modelling growth stages using a CERES-Wheat type phenology model? *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*, 8(2) (*In press*)

Shahar, Y., Blacker, C., Kavanagh, R., James, P. and **Taylor J.A.** (2017) Implementation of Ag Data Agricultural Services for Precision Agriculture. *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*, 8(2) (*In press*)

Chen, H., Leinonen, I., Marshall, B. and **Taylor, J.A.** (2017) Conceptual Spatial Crop Modelling of Potato Production. *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*, 8(2) (*In press*)

Kendall, H., Naughton P., Clark, B. **Taylor, J.** Li, Z., Zhao, C., Yang, G., Chen, J. and Frewer, L.J. Precision Agriculture in China: Exploring Awareness, Understanding, Attitudes and Perceptions of Agricultural Experts and End-Users in China. *Advances in Animal Biosciences: Precision Agriculture (ECPA) 2017*, 8(2) (*In press*)

**Taylor, J.A.**, Nuske, S., Singh, S. Hoffman, J.S. and Bates, T.R. (2013). Temporal evolution of within-season vineyard canopy response from a proximal sensing system. *Precision Agriculture '13. Proceedings of the 9<sup>th</sup> ECPA, Lleida, Spain, July 7-11, 2013.* J.V. Stafford (ed.). Wageningen Academic Publishers.

**Taylor, J.A.**, Charnomodic, B., Guillaume, S., Tisseyre, B. and Whelan, B.M. (2013) A comparison of bivariate classification and segmentation approaches to delineating and interpreting grain yield-protein management units. In: *Precision Agriculture '13. Proceedings of the 9<sup>th</sup> ECPA, Lleida, Spain, July 7-11, 2013.* J.V. Stafford (ed.). Wageningen Academic Publishers. p483-490

Tisseyre, B., Payan, J.C., Salancon E. and **Taylor J.A.** (2011). Effect of factors related to the training system in vineyards on a remotely-sensed vegetative index. In: *Proceedings of the 17th Symposium of the Group of Internationale Experts of vitivinicultural for CoOperation (GIESCO), Asti, Italy. August 29 – September 2, 2011.* p213-216.

**Taylor, J.A.** Galleguillos, M., Prevot, L., Jacob, F., Guix, N. and Lagacherie, P. (2010). On the inclusion of vegetative covariates in digital soil modelling of subsoil properties. In: *Proceedings of the 4<sup>th</sup> International Workshop on Digital Soil Mapping. Rome, May 24-26, 2010.* CD-ROM Publication. 6p.

**Taylor, J.A.**, Tisseyre, B. Acevedo-Opazo, C. and Lagacherie, P. (2009). Field scale model of the spatio-temporal vine water status in a viticulture system. In: Precision Agriculture '09. Proceedings of the 7<sup>th</sup> ECPA. E.J. van Henton, D. Goense and C. Lokhorst (eds). Wageningen, The Netherlands, July 6-8, 2009. p537-544. ISBN: 978-90-8686-113-2

**Taylor, J.A.**, Hedges, S. and Whelan, B.M. (2009). How long should your corn cob pipe be? Modeling yield\*quality interactions in Sweet corn. In: Bregt, A., Wolfert, S., Wien, J.E., Lokhorst, C. (Eds.), EFITA conference '09. Proceedings of the 7th EFITA Conference, Wageningen, The Netherlands, 6-8 July 2009, Wageningen Academic Publishers, Wageningen, pp. 411-417. (CD Publication or available on-line in Section 7 Decision Support Systems at <http://www.efita.net/apps/accesbase/dbsommaire.asp?d=6481&t=0&identobj=5q8dbjiQ&uid=57305290&sid=57305290&idk=1>)

Crawford, M., Odeh, I.O.A. and **Taylor, J.A.** (2008). Fuzzy assessment of soil suitability for wheat production in relation to farm productivity. In Proceedings of the First Global Workshop on High Resolution Digital Soil Sensing and Mapping, February 2008, The University of Sydney.

de Olivera, R.P., Whelan, B., McBratney, A. and **Taylor, J.** (2007). Yield variability as an index supporting management decisions: YIELD<sub>EX</sub>. Precision Agriculture '07. Proceedings of the 6<sup>th</sup> ECPA, Skiathos, Greece, June 3-6, 2007. J.V. Stafford (ed.). Wageningen Academic Publishers

**Taylor, J.A.**, Whelan, B.M., Thylen, L. Gilbertsson, M. and Hassall, J. (2005) Monitoring wheat protein content on-harvester – Australian experiences. Precision Agriculture '05. Proceedings of 5th ECPA, Uppsala, Sweden, June 8-11. J.V. Stafford (ed). Wageningen Academic Publishers (A version of this paper was re-published with permission in *PrecisionAgNews – The magazine of the Southern Precision Agriculture Association* V2, Issue 4, Summer 2005)

Whelan, B.M. and **Taylor, J.A.** (2005) Local Response to nitrogen inputs: advancing SSCM within Australia. Precision Agriculture '05. Proceedings of 5th ECPA, Uppsala, Sweden, June 8-11. J.V. Stafford (ed). Wageningen Academic Publishers

**Taylor, J.A.**, Tisseyre, B., Bramley, R.G.V. and Reid, A. (2005) A comparison of the spatial variability of vineyard yield in European and Australian production systems. Precision Agriculture '05. Proceedings of 5th ECPA, Uppsala, Sweden, June 8-11. J.V. Stafford (ed). Wageningen Academic Publishers

**Taylor, J.A.** and Odeh, I.O.A. (2004). Application of Discriminant Analysis (DA) to mapping the threat of salinity in northwest NSW. Digital Soil Mapping Workshop. September 12-16, Montpellier, France.

**Taylor, J.A.**, McBratney, A.B. and Faine, J.F. (2001) Prediction of digital terroirs for environmental management in the lower Hunter Valley. In. Proceedings of the 3rd European Conference on Precision Agriculture, Eds. G. Greiner and S. Blackmore., June 18-21, 2001 Montpellier, France

#### **Un-refereed conference papers:**

**Taylor J.A.**, Nuske, S.R. and Bates, T.R. (2013) Crop Load Mapping in Concord with On-the-go Proximal Sensors. ASEV National Conference, Technical Program (Abstract only. Oral presentation). Monterey, CA, June 24-27, 2013

**Taylor J.A.** and Bates, T.R. (2012) Spatial Variation in Pruning Weight and Implications for Managing Vine Size in Concord Grapes. ASEV Eastern Section Conference, Technical Program, (Abstract only. Oral presentation), Traverse City, Michigan, July 16-19, 2012.

Jacob, F., Lagacherie, P. Prévot, L. Galleguillos, M. and **Taylor, J.** (2010) Mapping hydric status within a Mediterranean vineyard region: implication for validation, modeling and characterization of soil properties. Recent Advances in Quantitative Remote Sensing (RAQRS) III, Torrent, Spain, Sept 27<sup>th</sup> - Oct 1<sup>st</sup>, 2012.

Manfrini, L., Pierpaoli, E., Morandi, B., Zibordi, M., Losciale, P., Bastias, R. M., Corelli Grappadelli, L. and **Taylor, J. A.** (2010) Precision Fruit Growing: How to Collect and Interpret Data on Season Variation in Apple Orchards. In Proceedings of the Fruit Production Systems Thematic Workshop. 28<sup>th</sup> International Horticultural Conference, Lisbon, Portugal

Tisseyre, B. and **Taylor, J.** (2008) An overview of methodologies and technologies for implementing precision agriculture in viticulture. XII Congresso Brasileiro de Viticultura e Enologia. 22-24 September, 2008, Bento Gonçalves, RS, Brazil. P 44-54 (available from <http://www.cnpuv.embrapa.br/publica/anais/cbve12/46-55.pdf>)

Whelan, B.M., **Taylor, J.A.** and McBratney, A.B. (2007). Potential management classes: is there value in their delineation?. Proceedings of the 11th Symposium on Precision Agriculture in Australasia, Palmerston North, NZ, 8p.

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**Taylor, J.A.** and Whelan, B.M. (2007) On-the-go grain quality monitoring: A review. In: Proceedings of the 4<sup>th</sup> International Symposium on Precision Agriculture (SIAP07). Oct 23-25, Viçosa, Brazil

**Taylor, J.A.**, and Bollen, A.F. (2007) How to defy gravity: Getting post-harvest information to flow upstream. Australasian PostHarvest Conference, September 9-13, Terrigal, NSW

**Taylor, J.A.** (2007) Precision Agriculture: Part 2. Australian Vegetable Industry Conference. May 29-June 1, Sydney Convention Centre, Sydney, NSW. (<http://www.vegieconf.com.au/documents/2007/RD/James%20Taylor.pdf>)

**Taylor, J.**, Mason, M., Whelan, B. and McBratney, A. (2006) Determining optimum management zone-based seeding rates using on-farm experimentation and variable-rate seeding technologies. In: Proceedings of the 8<sup>th</sup> International Conference on Precision Agriculture, Jul 23-26, 2006, Minneapolis, Minnesota, USA.

**Taylor, J.A.** (2006) Precision Agriculture: Opportunities for the vegetable industry. Australian Vegetable Industry Conference. May 10-12, Brisbane, Queensland. CD Publication. 2p

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**Taylor, J.**, Tisseyre, B. and Praat, J-P. (2005) Bottling Good Information: Mixing Tradition and Technology in vineyards. Frutic' 05 Symposium, September 12-16, Montpellier France.

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**Taylor J.** and Bramley R. (2004) Managing Vineyard Variability - Discussion Section. In Managing vineyard variation (Precision Viticulture) Workshop 30B. ed Rob Bramley. 12th AWITC, 25-28th July, Melbourne, Victoria, Australia

Clifford, D., McBratney, A.B., **Taylor, J.**, Whelan, B.M. (2004) Generalised analysis of spatial variance of field crops. Proceedings of the 7th International Conference on Precision Agriculture and Other Precision Resources Management, Hyatt Regency, Minneapolis, MN, USA, 25-28 July, 2004, pp. 2027-2039.

**Taylor, J.A.**, McBratney, A.B., and Ciaverella, R. (2003) Predicting and mapping winegrape quality from multiple must properties. In Proceedings of the 6th International Conference on Precision Agriculture, July 14-17, 2002, Minneapolis, Minnesota, USA

**Taylor, J.A.** (2001) Digital Terroirs – Their part in precision viticulture and environmental management. In Workshop W14 Precision Viticulture – Principles, opportunities and applications. 11th Australian Wine Industry Technical Conference, Adelaide, October 2001

**Taylor, J.A.** and McBratney, A.B. (2001). Digital Terroirs: Their part in precision viticulture and environmental management Proceedings of the 2001 Aust. Olive Association National Conference. Hunter Valley, NSW, Australia.

**Taylor, J.A.** and McBratney, A.B. (2001) Environmental Management of a Viticultural Irrigation District- A top-down bottom-up model. Proceedings of the 1st Australian Geospatial Information and Agriculture Conference, Sydney, July, 2001

**Taylor, J.A.** and McBratney, A.B. (2000). Use of a proximal soil sensor in determining soil sampling schemes and vineyard layout – some interim results. In Soil 2000: New Horizons for a New Century. Australian and New Zealand Second Joint

Soils Conference. Volume 2: Oral Papers. Eds. J.A. Adams and A.K. Metherell. 3-8 December 2000, Lincoln University. New Zealand Society of Soil Science. pp 307-309.

McBratney, A.B., Whelan, B.M., **Taylor, J.A.** and Pringle, M. (2000). A management opportunity index for Precision Agriculture. In P.C. Robert, R.H. Rust and W.E. Larson (eds.) Precision Agriculture, Proceedings of the 5th International Conference on Precision Agriculture, ASA/CSSA/SSSA, Madison, Wisconsin.

McBratney, A.B. and **Taylor, J.A.** (2000). PV or not PV? Proceedings of the 5th International Symposium on Cool Climate Viticulture and Oenology - a workshop on Precision Management. Melbourne, 10p.

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