



Biography

Behrooz is a Senior Research Fellow at Institute for Safety, Compensation and Recovery Research where he leads the Data Analytics Team. His current areas of research include Compensation Health, Health Service Use, Injury Recovery, and Return to Work. He applies a wide range of statistical and computational techniques such as time series analysis, data mining, and predictive modelling to investigate patterns, trends and responses in the behaviour of individuals and organisations with direct applications to design policy.

Qualifications

Employment

Research output

Prognostic role of demographic, injury and claim factors in disabling pain and mental health conditions 12 months after compensable injury

Nguyen, T. L., Baker, K. S., Ioannou, L., Hassani-Mahmooei, B., Gibson, S. J., Collie, A., Ponsford, J., Cameron, P. A., Gabbe, B. J. & Giummarra, M. J., 7 Oct 2020, In: *International Journal of Environmental Research and Public Health*. 17, 19, 21 p., 7320.

An interpretable algorithm on post-injury health service utilization patterns to predict injury outcomes

Akbarzadeh Khorshidi, H., Hassani-Mahmooei, B. & Haffari, G., Sep 2020, In: *Journal of Occupational Rehabilitation*. 30, p. 331–342 12 p.

Impact of comorbidity on health outcome after a transport-related injury

Samoborec, S., Simpson, P., Hassani-Mahmooei, B., Ruseckaite, R., Giummarra, M., Ayton, D. & Evans, S., Jun 2020, In: *Injury Prevention*. 26, 3, p. 254-261 8 p.

Characterizing Early and Late Return to Work after Traumatic Brain Injury

Spitz, G., Mahmooei, B. H., Ross, P., McKenzie, D. & Ponsford, J. L., 1 Sep 2019, In: *Journal of Neurotrauma*. 36, 17, p. 2533-2540 8 p.

Multi-objective semi-supervised clustering to identify health service patterns for injured patients

Khorshidi, H. A., Aickelin, U., Haffari, R. & Hassani-Mahmooei, B., 29 Aug 2019, In: *Health Information Science and Systems*. 7, 18, 8 p.

Early identification of undesirable outcomes for transport accident injured patients using semi-supervised clustering

Khorshidi, H. A., Haffari, G., Aickelin, U. & Hassani-Mahmooei, B., 8 Aug 2019, *Digital Health: Changing the Way Healthcare is Conceptualised and Delivered: Selected Papers from the 27th Australian National Health Informatics Conference (HIC 2019)*. Cummings, E., Merolli, M. & Schaper, L. K. (eds.). Amsterdam Netherlands: IOS Press, p. 1-6 6 p. (Studies in Health Technology and Informatics; vol. 266).

Evaluating the success of legislative amendments designed to reduce work disability

Gray, S., Lane, T. J., Hassani-Mahmooei, B. & Collie, A., 6 May 2019, In: *Policy Design and Practice*. 2, 3, p. 291-304 14 p.

Patterns and Predictors of Failed and Sustained Return-to-Work in Transport Injury Insurance Claimants

Gray, S. E., Hassani-Mahmooei, B., Cameron, I. D., Kendall, E., Kenardy, J. & Collie, A., Dec 2018, In: *Journal of Occupational Rehabilitation*. 28, 4, p. 740-748 9 p.

A population-based study of treated mental health and persistent pain conditions after transport injury

Giummarra, M. J., Black, O., Smith, P., Collie, A., Hassani-Mahmooei, B., Arnold, C. A., Gong, J. & Gabbe, B. J., Oct 2018, In: Injury. 49, 10, p. 1787-1795 9 p.

Factors associated with graduated return to work following injury in a road traffic crash

Gray, S. E., Hassani-Mahmooei, B., Kendall, E., Cameron, I. D., Kenardy, J. A. & Collie, A., Sep 2018, In: Journal of Transport & Health. 10, p. 167-177 11 p.

Effectiveness of employer financial incentives in reducing time to report worker injury: An interrupted time series study of two Australian workers' compensation jurisdictions

Lane, T. J., Gray, S., Hassani Mahmooei, B. & Collie, A., 5 Jan 2018, In: BMC Public Health. 18, 1, 10 p., 100.

The impact of legislative change on workers' compensation processes and outcomes: Findings from the COMPARE project

Collie, A., Lane, T., Gray, S. & Hassani-Mahmooei, B., Jun 2017, Melbourne: Monash University. 34 p.

Addressing TAC client needs and improving client outcomes: Analysis of the frequency and timing of health service use

Marengo, M., Hassani-Mahmooei, B. & Iles, R., 2017, Australia: Monash University. 59 p.

Prescription opioid dispensing and prescription opioid poisoning: Population data from Victoria, Australia 2006 to 2013

Berecki-Gisolf, J., Hassani Mahmooei, B., Clapperton, A. & Health, H. S. O., 2017, In: Australian and New Zealand Journal of Public Health. 41, 1, p. 85-91 7 p.

Victoria Police Safer Workplaces Project

Muir, C., Haffari, R. & Hassani-Mahmooei, B., 2017, Monash University. 100 p.

Compensation Research Database: population-based injury data for surveillance, linkage and mining

Prang, K. H., Hassani-Mahmooei, B. & Collie, A., 1 Oct 2016, In: BMC Research Notes. 9, 1, 11 p., 456.

Work-related injury and illness in Australia, 2004 to 2014: What is the incidence of work-related conditions and their impact on time lost from work by state and territory, age, gender and injury type?

Lane, T., Collie, A. & Hassani-Mahmooei, B., Jun 2016, Melbourne Vic Australia: Monash University. 54 p.

The effect of pre-existing health conditions on the cost of recovery from road traffic injury: Insights from data linkage of medicare and compensable injury claims in Victoria, Australia

Hassani Mahmooei, B., Berecki-Gisolf, J., Hahn, Y. & McClure, R. J., 29 Apr 2016, In: BMC Health Services Research. 16, 1, 8 p., 162.

Does time off work after injury vary by jurisdiction? A comparative study of eight Australian workers' compensation systems

Collie, A., Lane, T. J., Hassani-Mahmooei, B., Thompson, J. & McLeod, C., 2016, In: BMJ Open. 6, 5, 11 p., e010910.

Prescription opioid and benzodiazepine use after road traffic injury

Berecki-Gisolf, J., Hassani Mahmooei, B., Collie, A. & McClure, R., 2016, In: Pain Medicine. 17, 2, p. 304-314 10 p.

The role of identity and authority from anarchy to order: Insights from modelling the trajectory of duelling in Europe

Vahabi, M. & Hassani Mahmooei, B., 2016, In: Economic Modelling. 55, p. 57 - 72 16 p.

Victoria Police Census: Understanding employee movements within Victoria Police

Muir, C. & Hassani-Mahmooei, B., 2016, MUARC. 32 p.

Use of antidepressant medication after road traffic injury

Berecki-Gisolf, J., Collie, A., Hassani Mahmooei, B. & McClure, R. J., Jul 2015, In: *Injury*. 46, 7, p. 1250-1256 7 p.

"Anarchy" reigns: A quantitative analysis of agent-based modelling publication practices in JASSS, 2001-2012

Angus, S. & Hassani Mahmooei, B., 2015, In: *Journal of Artificial Societies and Social Simulation*. 18, 4, p. 1 - 20 20 p.

Evaluation of WorkSafe Victoria's introduction of Streamlined Treatment Approvals policy initiative

Koppel, S. N., Collie, A., Nheu, N., Grant, G. M., Berecki-Gisolf, J., Hassani-Mahmooei, B., Iles, R. & Newstead, S. V., 2015, WorkSafe Victoria, Victorian WorkCover Authority. 270 p.

The complexities of agent-based modeling output analysis

Lee, J-S., Filatova, T., Ligmann-Zielinska, A., Hassani Mahmooei, B., Stonedahl, F., Lorscheid, I., Voinov, A., Polhill, J. G., Sun, Z. & Parker, D. C., 2015, In: *Journal of Artificial Societies and Social Simulation*. 18, 4, p. 1 - 27 27 p.

The cost of comorbidity to the Transport Accident Commission Compensation Scheme

Hassani-Mahmooei, B., Berecki-Gisolf, J., Hahn, Y. & McClure, R. J., Jul 2014, Melbourne, Australia: Monash University. 65 p.

Dynamics of effort allocation and evolution of trust: an agent-based model

Hassani Mahmooei, B. & Parris, B. W., 2014, In: *Computational and Mathematical Organization Theory*. 20, 2, p. 133 - 154 22 p.

Review of the Victorian WorkCover Authority (VWA) Injured Worker Survey: Final Report

Koppel, S. N., Collie, A., Nheu, N., Grant, G. M., Berecki-Gisolf, J., Hassani-Mahmooei, B. & Newstead, S. V., 2014, Victorian WorkCover authority (VWA). 51 p.

Resource scarcity, effort allocation and environmental security: An agent-based theoretical approach

Hassani Mahmooei, B. & Parris, B. W., 2013, In: *Economic Modelling*. 30, p. 183 - 192 10 p.

Climate change and internal migration patterns in Bangladesh: an agent-based model

Hassani Mahmooei, B. & Parris, B. W., 2012, In: *Environment and Development Economics*. 17, 6, p. 763 - 780 18 p.

Climate change impacts and adaptation in Bangladesh: an agent-based approach

Angus, S., Parris, B. W. & Hassani Mahmooei, B., 2009, *Proceedings of the 18th IMACS World Congress and MODSIM09 International Congress on Modelling and Simulation: Interfacing Modelling and Simulation with Mathematical and Computational Sciences, Proceedings*. Anderssen, R. S., Braddock, R. D. & Newham, L. T. H. (eds.). www.mssanz.org.au/modsim09: Modelling and Simulation Society of Australia and New Zealand (MSSANZ), p. 2720-2726 7 p. (18th World IMACS Congress and MODSIM 2009 - International Congress on Modelling and Simulation: Interfacing Modelling and Simulation with Mathematical and Computational Sciences, Proceedings).

Designing adaptive artificial agents for an economic production and conflict model

Hassani Mahmooei, B. & Parris, B. W., 2009, *Artificial Life: Borrowing from Biology*. Korb, K., Randall, M. & Hendtlass, T. (eds.). Heidelberg Germany: Springer-Verlag London Ltd., p. 179 - 190 12 p.

Awards

Development of an Occupational Health and Safety Monitoring Framework for the Victorian Public Health Sector

Collie, A., Hassanimahmooei, B. & Gibson, K.
26/10/16 → 30/06/17

Activities