

Adjunct Prof. Frada Burstein  
Department of Human Centred Computing  
Monash Data Futures Institute  
Victorian Heart Institute (VHI)  
**Email:** Frada.Burstein@monash.edu

## Biography

Professor Frada Burstein, graduated from the Faculty of Applied Mathematics and Cybernetics of Tbilisi State University, Georgia, USSR and completed her PhD at the Institute of Cybernetics, Georgian Academy of Science (the Branch of USSR Academy of Sciences). Frada's PhD thesis was titled "Research and Development of Man-Machine Procedures for Multicriteria Decision Making (using vector preference relations)". Her professional academic career spans almost twenty years and includes extensive research in the areas of decision theory and decision support systems. Frada has been working with the Faculty of Information Technology at Monash University since 1992 and is currently a Director of Knowledge Management Research Program and a Laboratory at the Caulfield School of IT. In June 2013 Professor Frada Burstein was named the ICT Educator of the Year for her work in information and communications technology (ICT) education. Professor Burstein, was nominated by the Australian Computer Society (ACS).

## Qualifications

Decision Support Systems, Doctor of Philosophy (Doctor of Technical Cybernetics and Information Theory), RAS - Center for Theoretical Problems of Physicochemical Pharmacology  
Award Date: 18 Jul 1984

Graphic Arts, Graduate Diploma, Tbilisi State University  
Award Date: 30 Dec 1978

Applied Mathematics, Masters of Science (Honors), Tbilisi State University  
Award Date: 30 Dec 1978

## Activities

### **Elected member of the Executive Committee**

Frada Burstein (Fellow)  
7 Dec 2023 → 30 Dec 2024

### **MRFF – 2021 Primary Health Care Digital Innovations Grant Assessment Committee**

Frada Burstein (Fellow)  
1 Aug 2022 → 31 Dec 2022

### **Australian Computer Society Incorporated (External organisation)**

Frada Burstein (Member)  
25 Dec 2020 → 25 Dec 2021

### **Adjunct Professor, MADA**

Frada Burstein (Fellow)  
14 Nov 2018 → 30 Sept 2021

### **Member - Faculty Research Committee - Faculty of Information Technology, Monash University**

Frada Burstein (Member)  
1 Jan 2016 → 1 Jan 2018

### **Vice Chair - Working Group 8.3 (Decision Support Systems) - International Federation for Information Processing**

Frada Burstein (Chair/ Co-Chair)  
1 Jan 2016 → 26 Jun 2020

**Vice President - Australian Council for Professors & Heads of Information Systems**

Frada Burstein (Chair/ Co-Chair)

1 Jan 2016 → 8 Dec 2019

**Information Communication and Society (Journal)**

Frada Burstein (Editorial board member)

1 Jan 2012

**Information, Communication and Society (Journal)**

Susan McKemmish (Editor in chief), Frada Burstein (Editor in chief), Shannon Faulkhead (Editor in chief), Julie Lynette Fisher (Editor in chief), Anne Jervois Gilliland (Editor in chief), Ian McLoughlin (Editor in chief) & Robert Wilson (Editor in chief)

2012

**Honorary Research Professor - University of Ballarat**

Frada Burstein (Visitor)

1 Jan 2011 → 31 Dec 2013

**International Journal of Knowledge Management (Journal)**

Frada Burstein (Associate editor)

1 Jan 2011 → 1 Jan 2018

**Journal of Information & Knowledge Management (Journal)**

Frada Burstein (Associate editor)

1 Jan 2011 → 1 Jan 2017

**Knowledge Management Research and Practice (Journal)**

Frada Burstein (Editorial board member)

1 Jan 2011

**Elected Member - Faculty Board - Faculty of Information Technology, Monash University**

Frada Burstein (Member)

1 Jan 2010 → 31 Dec 2011

**Information Systems Journal (Journal)**

Frada Burstein (Editorial board member)

1 Jan 2010

**University of Paris**

Frada Burstein (Visiting researcher)

10 Dec 2008 → 30 Jun 2009

**VINE (Journal)**

Frada Burstein (Editor in chief)

1 Dec 2008 → 6 Jul 2009

**Chair - Special Interest Group in Decision Support - Association for Information Systems**

Frada Burstein (Chair/ Co-Chair)

1 Jan 2007 → 1 Jan 2008

**Decision Support Systems (Journal)**

Frada Burstein (Editor in chief) & George R Widmeyer (Editor in chief)

2007

**Decision Support Systems (Journal)**

Frada Burstein (Associate editor)  
1 Jul 2005

**Journal of Decision Systems (Journal)**

Frada Burstein (Editor in chief)  
1 Jan 2005 → 31 Dec 2015

**IEEE Journal of Biomedical and Health Informatics (Journal)**

Rajeev K Bali (Editor in chief), David D Feng (Editor in chief), Frada Burstein (Editor in chief) & Ashish N Dwivedi (Editor in chief)  
2005

**Journal of Information & Knowledge Management (Journal)**

Frada Burstein (Editor in chief) & Henry Linger (Editor in chief)  
2003

**Association for Information Systems (External organisation)**

Frada Burstein (Member)  
1 Jan 2001

**Australian Computer Society Incorporated (External organisation)**

Frada Burstein (Executive Member)  
1 Jan 2001

**Decision Support Systems (Journal)**

Frada Burstein (Editor in chief)  
2001

**Hermes Science Publishing (Publisher)**

Frada Burstein (Editor in chief)  
2001

**Monash University (Publisher)**

Frada Burstein (Editor in chief)  
2001

**Australasian Journal of Information Systems (Journal)**

Frada Burstein (Associate editor)  
1 Jan 2000

**Research output****2024**

Burstein, F., Phillips-Wren, G., Heavin, C., & Szántó, R. (Accepted/In press). Is anyone listening? Evaluating the impact of decision systems and analytics research. *Journal of Decision Systems*. <https://doi.org/10.1080/12460125.2024.2349450>

**2023**

Oshni Alvandi, A., Burstein, F., & Bain, C. (2023). A digital health ecosystem ontology from the perspective of Australian consumers: a mixed-method literature analysis. *Informatics for Health and Social Care*, 48(1), 13-29. <https://doi.org/10.1080/17538157.2022.2049273>

## 2022

Gurazada, S. G., Gao, S., Burstein, F., & Buntine, P. (2022). Predicting patient Length of Stay in Australian emergency departments using data mining. *Sensors*, *22*(13), [4968]. <https://doi.org/10.3390/s22134968>

Habibabadi, S. K., Delir Haghighi, P., Burstein, F., & Buttery, J. (2022). Vaccine adverse event mining of twitter conversations: 2-phase classification study. *JMIR Medical Informatics*, *10*(6), [e34305]. <https://doi.org/10.2196/34305>

Potter, E., Burstein, F., Flynn, D., Hwang, I., Dinh, T., Goh, T. Y., Ebrahim, M. M., & Gilfillan, C. (2022). Physician-Authored Feedback in a Type 2 Diabetes Self-management App: Acceptability Study. *JMIR Formative Research*, *6*(5), [e31736]. <https://doi.org/10.2196/31736>, <https://doi.org/10.2196/31736>

Phillips-Wren, G., Daly, M., & Burstein, F. (2022). Support for cognition in decision support systems: an exploratory historical review. *Journal of Decision Systems*, *31*(1), 18-30. <https://doi.org/10.1080/12460125.2022.2070946>

Perversi, P., Burstein, F., Henderson, Z., Leech, M. T., Schliephake, K., & Kent, F. (2022). How do students enact group reasoning within online interprofessional education? *Journal of Research in Interprofessional Practice and Education*, *12* (1). <https://doi.org/10.22230/jripe.2022v12n1a339>

Malliaras, P., Rathi, S., Burstein, F., Watt, L., Ridgway, J., King, C., & Warren, N. (2022). 'Physio's not going to repair a torn tendon': patient decision-making related to surgery for rotator cuff related shoulder pain. *Disability and Rehabilitation*, *44*(14), 3686-3693. <https://doi.org/10.1080/09638288.2021.1879945>

## 2021

Robert, R., Delir Haghighi, P., Burstein, F., Urquhart, D., & Cicuttini, F. M. (2021). Investigating individuals' perceptions regarding the context around the low back pain experience: topic modeling analysis of twitter data. *Journal of Medical Internet Research*, *23*(12), [e26093]. <https://doi.org/10.2196/26093>

Lokuge, S., Sedera, D., Cooper, V., & Burstein, F. (2021). Digital transformation: Environmental friend or foe? Panel discussion at the australasian conference on information systems 2019. *Communications of the Association for Information Systems*, *48*, 616-634. [47]. <https://doi.org/10.17705/1CAIS.04846>

Phillips-Wren, G., Daly, M., & Burstein, F. (2021). Reconciling Business Intelligence, Analytics and decision support systems: more data, deeper insight. *Decision Support Systems*, *146*, [113560]. <https://doi.org/10.1016/j.dss.2021.113560>

Zhang, Y., Haghighi, P. D., Burstein, F., Yao, L., & Cicuttini, F. (2021). On-device lumbar-pelvic movement detection using dual-IMU: a DNN-based approach. *IEEE Access*, *9*, 62241-62254. <https://doi.org/10.1109/ACCESS.2021.3074755>

## 2020

Kruesi, L., Burstein, F., & Tanner, K. (2020). A knowledge management system framework for an open biomedical repository: communities, collaboration and corroboration. *Journal of Knowledge Management*, *24*(10), 2553-2572. <https://doi.org/10.1108/JKM-05-2020-0370>

Sharma, C., Whittle, S., Delir Haghighi, P., Burstein, F., & Keen, H. (2020). Sentiment analysis of social media posts on pharmacotherapy: a scoping review. *Pharmacology Research & Perspectives*, *8*(5). <https://doi.org/10.1002/prp2.640>

Zhang, Y., Haghighi, P. D., Burstein, F., Yap, L. W., Cheng, W., Yao, L., & Cicuttini, F. (2020). Electronic skin wearable sensors for detecting lumbar–pelvic movements. *Sensors*, *20*(5), 1. [1510]. <https://doi.org/10.3390/s20051510>

White, J., Auliffe, S. M., Jepson, M., Burstein, F., Hopman, R., Morrissey, D., Haines, T., & Malliaras, P. (2020). 'There is a very distinct need for education' among people with rotator cuff tendinopathy: An exploration of health professionals' attitudes. *Musculoskeletal Science and Practice*, 45, [102103]. <https://doi.org/10.1016/j.msksp.2019.102103>

Sharma, C., Whittle, S., Haghighi, P. D., Burstein, F., Sa'adon, R., & Keen, H. I. (2020). Mining social media data to investigate patient perceptions regarding DMARD pharmacotherapy for rheumatoid arthritis. *Annals of the Rheumatic Diseases*, 79(11), 1432–1437. <https://doi.org/10.1136/annrheumdis-2020-217333>

## 2019

Kruesi, L., Tanner, K., & Burstein, F. (2019). Advancing scholarly publishing through open access biomedical repositories: a knowledge management perspective. *IFLA Journal*, 45(3), 233-245. <https://doi.org/10.1177/0340035219846139>

Kruesi, L. M., Burstein, F. V., & Tanner, K. J. (2019). With open science gaining traction, do we need an Australasia PubMed Central (PMC)? a qualitative investigation. *PLoS ONE*, 14(2), [e0212843]. <https://doi.org/10.1371/journal.pone.0212843>

## 2018

Perversi, P., Yearwood, J., Bellucci, E., Stranieri, A., Warren, J., Burstein, F., Mays, H., & Wolff, A. M. (2018). Exploring reasoning mechanisms in ward rounds: a critical realist multiple case study. *BMC Health Services Research*, 18(1), [643]. <https://doi.org/10.1186/s12913-018-3446-6>

Rybnytska, O., Burstein, F., Rybin, A. V., & Zaslavsky, A. (2018). Decision support for optimizing waste management. *Journal of Decision Systems*, 27(S1), 68-78. <https://doi.org/10.1080/12460125.2018.1464312>

Xie, J., Burstein, F., Garad, R., Teede, H. J., & Boyle, J. A. (2018). Personalized mobile tool AskPCOS delivering evidence-based quality information about polycystic ovary syndrome. *Seminars in Reproductive Medicine*, 36(1), 66-72. <https://doi.org/10.1055/s-0038-1667156>

## 2017

Haghighi, P. D., Kang, Y. B., Buchbinder, R., Burstein, F., & Whittle, S. (2017). Investigating subjective experience and the influence of weather among individuals with fibromyalgia: a content analysis of Twitter. *JMIR Public Health and Surveillance*, 3(1), [e4]. <https://doi.org/10.2196/publichealth.6344>

## 2016

Kang, Y. B., Delir Haghighi, P., & Burstein, F. (2016). TaxoFinder: A graph-based approach for taxonomy learning. *IEEE Transactions on Knowledge and Data Engineering*, 28(2), 524 - 536. <https://doi.org/10.1109/TKDE.2015.2475759>

## 2015

De Silva, D., Burstein, F., Jelinek, H., & Stranieri, A. (2015). Addressing the complexities of big data analytics in healthcare: The diabetes screening case. *Australasian Journal of Information Systems*, 19, 99 - 115. <https://doi.org/10.3127/ajis.v19i0.1183>

Nguyen, V. B., Burstein, F., & Fisher, J. (2015). Improving service of online health information provision: A case of usage-driven design for health information portals. *Information Systems Frontiers*, 17(3), 493 - 511. <https://doi.org/10.1007/s10796-014-9507-4>

Nguyen, V. B., Burstein, F., Fisher, J. L., & Wilson, C. C. (2015). Taxonomy of usage issues for consumer-centric online health information provision. *Communications of the Association for Information Systems*, 37(1), 536 - 566.

## 2014

De Silva, D. P., & Burstein, F. (2014). An intelligent content discovery technique for health portal content management. *JMIR Medical Informatics*, 2(1), 1 - 13. <https://doi.org/10.2196/medinform.2671>

Kang, Y. B., Delir Haghghi, P., & Burstein, F. (2014). CFinder: An intelligent key concept finder from text for ontology development. *Expert Systems with Applications*, 41(9), 4494 - 4504. <https://doi.org/10.1016/j.eswa.2014.01.006>

## 2013

Delir Haghghi, P., Burstein, F., Zaslavsky, A., & Arbon, P. A. (2013). Development and evaluation of ontology for intelligent decision support in medical emergency management for mass gatherings. *Decision Support Systems*, 54(2), 1192 - 1204. <https://doi.org/10.1016/j.dss.2012.11.013>

Zeitz, K. M., Delir Haghghi, P., Burstein, F., & Williams, J. (2013). Understanding the drivers on medical workloads: An analysis of spectators at the Australian Football League. *Australian Health Review*, 37(3), 402 - 406. <https://doi.org/10.1071/AH13032>

## 2012

Delir Haghghi, P., Burstein, F., & Nguyen, H. T. (2012). Enabling semantic querying in mobile and location-aware DSS for mass gatherings. *Journal of Decision Systems*, 21(4), 259 - 273. <https://doi.org/10.1080/12460125.2012.749670>

McKemmish, S. M., Burstein, F. V., Manaszewicz, R., Fisher, J. L., & Evans, J. (2012). Inclusive research design: Unravelling the double hermeneutic spiral. *Information, Communication and Society*, 15(7), 1106 - 1135. <https://doi.org/10.1080/1369118X.2012.707225>

Zyngier, S. M., & Burstein, F. (2012). Knowledge management governance: The road to continuous benefits realization. *Journal of Information Technology*, 27(2), 140 - 155. <https://doi.org/10.1057/jit.2011.31>

## 2011

Atkinson, B., & Burstein, F. (2011). Biological and information systems approaches. In D. Schwartz, & D. Te'eni (Eds.), *Encyclopedia of Knowledge Management* (Second ed., pp. 62 - 71). IGI Global.

Grigsby, S. A., Burstein, F., & Parker, N. L. (2011). Context modelling in time-critical decision support for medical triage. In F. Burstein, P. Brezillon, & A. Zaslavsky (Eds.), *Supporting Real Time Decision-Making: The Role of Context in Decision Support on the Move* (pp. 287 - 302). Springer.

Burstein, F., Delir Haghghi, P., & Zaslavsky, A. (2011). Context-aware mobile medical emergency management decision support system for safe transportation. In D. Schuff, D. Paradise, F. Burstein, D. J. Power, & R. Sharda (Eds.), *Decision Support: An Examination of the DSS Discipline* (pp. 163 - 181). Springer.

Zyngier, S., & Burstein, F. (2011). Knowledge management governance as a mechanism for sustainable organisational knowledge creation and transfer. *International Journal of Strategic Change Management*, 3(3), 211 - 229.

Power, D. J., Burstein, F., & Sharda, R. (2011). Reflections on the past and future of decision support systems: Perspective of eleven pioneers. In D. Schuff, D. Paradise, F. Burstein, D. J. Power, & R. Sharda (Eds.), *Decision Support: An Examination of the DSS Discipline* (pp. 25 - 48). Springer.

Burstein, F., & Linger, H. (2011). Task-based knowledge management approach. In D. G. Schwartz, & D. Te'eni (Eds.), *Encyclopedia of Knowledge Management: Second Edition* (2nd ed., Vol. 1, pp. 1479 - 1489). Information Science Reference. <https://doi.org/10.4018/978-1-59904-931-1.ch141>

## 2010

Atkinson, B. E., & Burstein, F. (2010). Biological and information systems approaches. In *Encyclopedia of Knowledge Management: Second Edition* (Vol. 1, pp. 62-71). IGI Global. <https://doi.org/10.4018/978-1-59904-931-1.ch007>

Delir Haghighi, P., Burstein, F., Zaslavsky, A., Arbon, P. A., & Krishnaswamy, S. (2010). The role of domain ontology for medical emergency management in mass gatherings. In A. Respicio, F. Adam, G. Phillips-Wren, C. Teixeira, & J. Telhada (Eds.), *Bridging the Socio-technical Gap in Decision Support Systems: Challenges for the Next Decade* (pp. 520 - 531). IOS Press.

Burstein, F., Sohal, S., Zyngier, S. M., & Sohal, A. S. (2010). Understanding of knowledge management roles and responsibilities: A study in the Australian context. *Knowledge Management Research and Practice*, 8(1), 76 - 88.

## 2009

Lee, W. B., & Burstein, F. (2009). Editorial. *VINE*, 39(1), 285-286. <https://doi.org/10.1108/vine.2009.28739aaa.001>

Guo, T., Schwartz, D. G., Burstein, F., & Linger, H. (2009). Codifying collaborative knowledge: Using Wikipedia as a basis for automated ontology learning. *Knowledge Management Research and Practice*, 7(3), 206 - 217.

Zhuang, Z. Y., Churilov, L., Burstein, F., & Sikaris, K. (2009). Combining data mining and case-based reasoning for intelligent decision support for pathology ordering by general practitioners. *European Journal of Operational Research*, 195(3), 662 - 675. <https://doi.org/10.1016/j.ejor.2007.11.003>

McKemmish, S. M., Manaszewicz, R., Burstein, F., & Fisher, J. L. (2009). Consumer empowerment through metadata-based information quality reporting: The Breast Cancer Knowledge Online portal. *Journal of the American Society for Information Science and Technology*, 60(9), 1792 - 1807.

## 2008

Moon, J., & Burstein, F. (2008). Ontology-based spelling correction for searching medical information. In *Medical Informatics: Concepts, Methodologies, Tools, and Applications* (Vol. 4-4, pp. 2244-2258). IGI Global. <https://doi.org/10.4018/978-1-60566-050-9.ch170>

Burstein, F., & Holsapple, C. W. (2008). New horizons at the core of information systems: Decision support system advances. *Information Systems and e-Business Management*, 6(2), 109-115. <https://doi.org/10.1007/s10257-007-0076-7>

Fisher, J. L., Burstein, F., Lynch, K., & Lazarenko, E. K. (2008). "Usability + usefulness = trust": An exploratory study of Australian health web sites. *Internet Research*, 18(5), 477 - 498.

Sujanto, F. Y., Ceglowski, A. S., Burstein, F., & Churilov, L. (2008). An integrated framework for comprehensive collaborative emergency management. In P. Zarate, J. P. Belaud, G. Camilleri, & F. Ravat (Eds.), *Collaborative Decision Making: Perspectives and Challenges* (pp. 127 - 138). IOS Press.

Burstein, F., & Carlsson, S. (2008). Decision support through knowledge management. In F. Burstein, & C. W. Holsapple (Eds.), *Handbook on Decision Support Systems 1: Basic Themes* (pp. 103 - 120). Springer.

Pier, C., Shandley, K., Fisher, J. L., Burstein, F., Nelson, M., & Piterman, L. (2008). Identifying the health and mental health information needs of people with coronary heart disease, with and without depression. *The Medical Journal of Australia*, 188(12), S142 - S144.

Burstein, F., & Cowie, J. (2008). Mobile decision support for time-critical decision making. In F. Adam, & P. Humphreys (Eds.), *Encyclopedia of Decision Making and Decision Support Technologies* (pp. 638 - 644). Information Science Publishing.

Burstein, F., Cowie, J., Zaslavsky, A., & San Pedro, J. C. (2008). Support for real-time decision making in mobile financial applications. *Information Systems and e-Business Management*, 6(3), 257 - 278.

Burstein, F., Cowie, J., Zaslavsky, A., & San Pedro, J. C. (2008). Support for real-time decision making in mobile financial applications. In F. Burstein, & C. W. Holsapple (Eds.), *Handbook on Decision Support Systems 2: Variations* (pp. 81 - 106). Springer.

## 2007

Linger, H., Hasan, H., & Burstein, F. (2007). Integrating doing and thinking in a work context: An Australian knowledge management perspective. *Scandinavian Journal of Information Systems*, 19(1), 59 - 86.

Cowie, J., & Burstein, F. V. (2007). Quality of data model for supporting mobile decision making. *Decision Support Systems*, 43, 1675 - 1683. <https://doi.org/10.1016/j.dss.2006.09.010>

Fennessy, G., & Burstein, F. V. (2007). Role of information professionals as intermediaries for knowledge management in evidence-based healthcare. In R. K. Bali, & A. N. Dwivedi (Eds.), *Healthcare Knowledge Management: Issues, Advances, and Successes* (pp. 28 - 40). Springer.

## 2006

Moon, J., & Burstein, F. (2006). Ontology-based spelling correction for searching medical information. In *Semantic Web Technologies and E-Business: Toward the Integrated Virtual Organization and Business Process Automation* (pp. 384-404). IGI Global. <https://doi.org/10.4018/978-1-59904-192-6.ch016>

Burstein, F., McKemmish, S. M., Fisher, J. L., Manaszewicz, R., & Malhotra, P. (2006). A role for information portals as intelligent decision support systems: Breast Cancer Knowledge Online experience. In J. N. D. Gupta, G. A. Forgie, & M. Mora T (Eds.), *Intelligent Decision-making Support Systems: Foundations, Applications and Challenges* (1 ed., pp. 359 - 383). Springer.

Fisher, J. L., Burstein, F., McKemmish, S. M., & Manaszewicz, R. (2006). Applying a user-centred design approach to building a personalised health information portal for decision support. In F. Adam, P. Brezillion, S. Carlsson, & P. Humphreys (Eds.), *Creativity and Innovation in Decision Making and Decision Support* (1 ed., pp. 488 - 505). Ludic Publishing.

Atkinson, B., & Burstein, F. (2006). Biological and information systems approaches. In D. G. Schwartz (Ed.), *Encyclopedia of Knowledge Management* (1 ed., pp. 17 - 23). IGI Global.

Viademonte Da Rosa, S. I., & Burstein, F. (2006). From knowledge discovery to computational intelligence: a framework for intelligent decision support systems. In J. N. D. Gupta, G. A. Forgie, & M. Mora T (Eds.), *Intelligent Decision-making Support Systems: Foundations, Applications and Challenges* (1 ed., pp. 57 - 78). Springer.



Burstein, F. V., San Pedro, J. C., Churilov, L., & Wassertheil, J. (2006). Intelligent multiattribute decision support model for medical triage. In B. Bouchon-Meunier, G. Coletti, & R. R. Yager (Eds.), *Modern Information Processing: From Theory to Applications* (1 ed., pp. 269 - 280). Elsevier.

Burstein, F., & Linger, H. (2006). Task-based knowledge management. In D. G. Schwartz (Ed.), *Encyclopedia of Knowledge Management* (1 ed., pp. 840-847). IGI Global. <https://doi.org/10.4018/978-1-59140-573-3.ch110>

## 2005

San Pedro, J. C., Burstein, F., & Sharp, A. (2005). A case-based fuzzy multicriteria decision support model for tropical cyclone forecasting. *European Journal of Operational Research*, 160(2), 308 - 324. <https://doi.org/10.1016/j.ejor.2003.09.003>

Linger, H., Burstein, F., & Hasan, H. (2005). Articulating knowledge work: the contributions of activity theory and task-based knowledge management. In G. Whymark, & H. Hasan (Eds.), *Activity as the Focus of Information Systems Research* (1 ed., pp. 71 - 90). Knowledge Creation Press.

Zyngier, S. M., Burstein, F., & McKay, J. (2005). Governance of strategies to manage organizational knowledge: a mechanism to oversee knowledge needs. In M. E. Jennex (Ed.), *Case studies in knowledge management* (pp. 83 - 103). IGI Global.

Moon, J., & Burstein, F. (2005). Intelligent portals for supporting medical information needs. In A. Tatnall (Ed.), *Web portals: The new gateways to Internet information and services* (pp. 270 - 296). IGI Global.

Owen, J., & Burstein, F. V. (2005). Where knowledge management resides within project management. In M. E. Jennex (Ed.), *Case studies in knowledge management* (pp. 138 - 153). IGI Global.

## 2004

Cao, P. P., Burstein, F., & San Pedro, J. C. (2004). Extending coordination theory to the field of distributed group multiple criteria decision-making. *Journal of Decision Systems*, 13(3), 287-305. <https://doi.org/10.3166/jds.13.287-305>

Owen, J., Burstein, F. V., & Mitchell, S. (2004). Knowledge reuse and transfer in a project management environment. *Journal of Information Technology Cases and Application (JITCA)*, 6(4), 21 - 35.

## 2003

Williamson, K., Wright, S. J., Burstein, F. V., & Schauder, D. E. (2003). Adoption of online databases in public libraries: an Australian case study. *Libres*, 13(2), 1 - 8.

Zyngier, S. M., Burstein, F. V., & Rodriguez, M-L. (2003). Knowledge management strategies in Australia: analysis of uptake and understanding. In H. Hasan, & M. Handzic (Eds.), *Australian Studies in Knowledge Management* (1 ed., pp. 487 - 521). University of Wollongong Press.

Burstein, F. V., & Linger, H. (2003). Supporting post-Fordist work practices: a knowledge management framework for supporting knowledge work. *Information Technology & People*, 16(3), 289 - 305. <https://doi.org/10.1108/09593840310489395>

## 2001

Linger, H., & Burstein, F. V. (2001). From computation to knowledge management: The changing paradigm of decision support for meteorological forecasting. *Journal of Decision Systems*, 10(2), 195-215. <https://doi.org/10.3166/jds.10.195-215>

Maynard, S., Burstein, F. V., & Arnott, D. R. (2001). A multi-faceted decision support system evaluation approach. *Journal of Decision Systems*, 10(3-4), 395 - 428.

## 2000

Smith, H. G., Burstein, F. V., Sharma, R., & Sowunmi, A. I. (2000). Organizational Memory Information Systems A Case-based Approach to Decision Support. In *Decision Support Systems for Sustainable Development* (pp. 277 - 290). Kluwer Academic Publishers.

## 1999

Linger, H., Burstein, F. V., Zaslavsky, A., & Crofts, N. (1999). A Framework for a Dynamic Organizational Memory Information System. *Journal of Organizational Computing and Electronic Commerce*, 189 - 203.

Smith, H. G., Burstein, F. V., & Sowunmi, A. I. (1999). Knowledge Acquisition for Organizational Memory Information Systems in Decision Support. *Journal of Decision Systems*, 1 - 20.

Linger, H., & Burstein, F. V. (1999). Researching Organisational Memory. In *Systems Development Methods for Databases, Enterprise Modeling, and Workflow Management* (pp. 279 - 298). Kluwer Academic Publishers.

## 1998

Linger, H., Burstein, F. V., Zaslavsky, A., Aitken, C. K., & Crofts, N. (1998). Conceptual development of an information system framework for improving continuity in epidemiological research. *European Journal of Epidemiology*, 587 - 593.

## 1997

Burstein, F. V., Linger, H., Zaslavsky, A., & Crofts, N. (1997). Supporting Epidemiological Research with an Organisational Memory System. *Informatics in Health Care Australia*, 182 - 190.

## Prizes

### Association for Information Systems (AIS) Distinguished Member

Burstein, Frada (Recipient), Dec 2019

### IFIP Outstanding Service Award

Burstein, Frada (Recipient), 20 Oct 2020

### Monash Postgraduate Association Supervisor of the Year Award - Monash University

Burstein, Frada (Recipient), 1 Jan 2003

### Vice-Chancellor's Award for excellence in Postgraduate Supervision - Monash University

Burstein, Frada (Recipient), 30 Oct 2009

### iAward - ICT Victorian Educator of Year

Burstein, Frada (Recipient), 2013

## Projects

### **Improving Patient-centered Care through Digital Change: Implementing a 'lightweight' digital platform to link with patient systems and mobile devices**

Tehrani, A., Wilkin, C., Burstein, F., Russo, P., McLoughlin, I., Skouteris, H. & Cooke, F. L.  
Cabrini Health Limited  
9/10/19 → 8/10/22

### **A decision support tool to reduce unnecessary imaging for rotator cuff related shoulder pain**

Malliaras, P., Burstein, F., Haines, T. & Zadro, J. R.  
1/09/21 → 1/05/23

### **A framework for combining multicriteria decision analysis tools and intelligent technologies for supporting decision making in tropical cyclone prediction**

Burstein, F. & San Pedro, J. C.  
Monash University  
1/12/01 → 31/12/03

### **An intelligent, user-sensitive portal to breast cancer knowledge online.**

McKemmish, S., Anderson, J., Burstein, F., Fisher, J. L., Williamson, C. & Lockwood, S.  
Australian Research Council (ARC), Breast Cancer Action Group Inc, Breast Care Victoria  
1/01/02 → 31/12/03

### **Asia Postgraduate Mobility Grants - International Development informatics project in Bangladesh**

Delir Haghighi, P., Denison, T., Stillman, L. & Burstein, F.  
Department of Employment and Workplace Relations (Australia)  
5/01/17 → 30/12/17

### **BP2 Generating and translating knowledge in health promotion and lifestyle improvement prior to and during pregnancy to reduce the burden of maternal obesity**

Teede, H., Skouteris, H., Boyle, J., Burstein, F., Moran, L. & Van Dyke, T.  
5/03/18 → 30/08/20

### **Breast Cancer Knowledge Online (BCKOnline) Portal**

Burstein, F. & Fisher, J. L.  
Telematics Trust  
1/02/11 → 20/12/11

### **Community perceptions of rheumatoid arthritis pharmacotherapy: An analysis of social media platforms**

Keen, H. I., Whittle, S. L., Delir Haghighi, P., Sharma, C. & Burstein, F.  
Arthritis Australia  
1/01/18 → 31/12/18

### **Context-aware mobile decision support systems for medical emergency management in mass gatherings**

Burstein, F., Arbon, P., Krishnaswamy, S. & Zaslavsky, A.  
Australian Research Council (ARC), IBM - International Business Machines Corporation (Australia), Intel Australia Pty Ltd  
, Police Department (Victoria) (trading as Victoria Police)  
30/07/09 → 30/10/13

### **Development of a framework for the identification of emerging food safety issues: A dairy model**

Burstein, F. & Linger, H.  
1/06/04 → 30/11/04

### **Enhancing and supporting deliberations within multidisciplinary decision teams**

Burstein, F., Stranieri, A., Yearwood, J., Warren, J. & Wolff, A.

Australian Research Council (ARC)  
1/01/14 → 30/10/19

**Evaluation of Knowledge management Tool to Support a Learning Community for Food Safety Issues Management**  
Burstein, F. & Linger, H.  
16/05/07 → 31/07/07

**Evaluation of heart health online: a program to assist GPs to manage depression and related illnesses in patients with coronary heart disease.**  
Burstein, F., Fisher, J. L., Pier, C., Piterman, L., Tonkin, A., Klein, B. & Murphy, A. J.  
Beyond Blue Limited  
1/01/08 → 31/12/09

**Evaluation of the Usability of Electronic Library Resources - Apai - Collab**  
Burstein, F., Williamson, C., Arnott, D., Bowles, W., Maynard, S. B., Schauder, D. & Stillman, L.  
Australian Research Council (ARC), Library Board of Victoria (trading as State Library of Victoria (SLV))  
1/01/00 → 31/12/00

**Extending the functionality, sustainability and usefulness of the Breast Cancer Knowledge Online Portal (BCKOnline)**  
Fisher, J. L., Burstein, F. & McKemmish, S.  
Trustee for Helen Macpherson Smith Trust  
5/01/10 → 31/12/11

**Improving meteorological forecasting practice with knowledge management systems**  
Linger, H., Burstein, F., Korb, K., Nicholson, A., Kelly, J. & Ryan, C.  
Australian Research Council (ARC), Bureau of Meteorology (BOM) (Australia)  
8/11/02 → 30/06/08

**Information technology driven integrated decision support for mass casualty disaster management in Australia**  
Burstein, F., Sujanto, F. Y. & Bacon, A.  
Australian Research Council (ARC), Department of Health (DH) (Victoria)  
1/01/04 → 31/12/06

**Intelligent Healthcare Information Portal to Support User-centric information Provision**  
Burstein, F. & Warren, J.  
1/02/05 → 31/01/06

**Intelligent Information Portal - Step 2**  
Burstein, F.  
Cooperative Research Centres Association (CRC)  
21/06/06 → 25/12/06

**Internet and telerehabilitation-based management of rotator cuff related shoulder pain: a randomised controlled trial**  
Malliaras, P., Haines, T., Skouteris, H., Burstein, F. & Delir Haghghi, P.  
Hospitals Contribution Fund of Australia (trading as HCF Research Foundation)  
20/03/21 → 20/12/23

**Knowledge Management Model Within the Context of Evidence Based Health Care**  
Burstein, F., Anderson, J. & Schauder, D.  
Australian Research Council (ARC)  
1/01/00 → 31/12/00

**Knowledge management framework development - Food Safety Program**  
Burstein, F. & Linger, H.  
10/05/06 → 1/07/06

**Knowledge management in Australian financial institutions**

Burstein, F. & Zyngier, S.  
Fuji Xerox Australia Pty Ltd  
15/02/02 → 14/03/03

**Knowledge management in Australian professional services**

Burstein, F. & Zyngier, S.  
Fuji Xerox Australia Pty Ltd  
1/01/02 → 31/12/02

**Mobile Collaboration during Emergencies, Victorian Government Department of State Development and Business and Innovation Technology Development Voucher Program**

Burstein, F. & Delir Haghighi, P.  
12/05/14 → 31/05/15

**Mobile phones for Testing Mobile DSS for emergency services**

Burstein, F. & Delir Haghighi, P.  
Collier Charitable Fund  
6/01/11 → 31/12/11

**Nudge CDSS: Nudging clinicians to reduce unnecessary medical test ordering**

Gao, C., Burstein, F. & Buntine, P.  
1/12/22 → 29/12/23

**Self-sustaining Regions Research and Innovation Initiative**

Burstein, F., Baker, A., Beardall, J., Boretti, A., Charchar, F. J., Davis, J., Gao, D., Gell, P., Harrap, S. B., Hodgson, P., Karoly, D. J., Keenan, R., Kershaw, P., Kingsford, R., Myers, M., Reeves, A., Shaw, J., Smith-Miles, K., Smyth, J., Stagnitti, F., Stranieri, A., Turney, C., Weber, R., Wilby, R., Wyn, J., Yearwood, J., Nahavandi, S. & Sonenberg, L.  
Department of Industry, Science and Resources (Australia)  
1/07/11 → 18/05/16

**Smart Information Portals: Meeting knowledge and decision support needs of health care consumers for quality online information**

Burstein, F., Fisher, J. L., McKemmish, S. & Warren, J.  
Australian Research Council (ARC), Monash University  
3/01/06 → 31/07/09