**INBAL YAHAV**

**inbalyahav@tauex.tau.ac.il**

**EDUCATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Period of study** | **Institution & department** | **Degree** | **Subject** | **Date Awarded** |
| 2000-2004 | TECHNION – Israel Institute of Technology, Haifa, Israel | B.Sc. in Information Systems Engineering/Cum Laude |  | **2.2005** |
| 2004-2006 | TECHNION – Israel Institute of Technology, Haifa, Israel | M.A In Information Management Engineering |  | **8.2006** |
| 2006-2010 | University of Maryland | Ph.D. in Business & Management |  | **2010** |

|  |  |
| --- | --- |
| **Title of Master's Thesis** | “A data analytical framework for improving real-time, decision support systems in healthcare” |
| **Title of Doctoral Dissertation** | Empirical Modeling in Healthcare Applications: Combining Operations Research and Data Mining Techniques |
| **Names of Supervisors**  **Other Committee members** | Professor Galit Shmueli  Prof. Itir Karaesmen, Prof. Louiqa Raschid, Prof. Wolfgang Jank, Prof. Steve Gabriel |

Academic and Professional Experience

Academic Experience

|  |  |  |
| --- | --- | --- |
| **Year** | **Appointment** | **(Work Percentage)** |
| 2005 | Visiting Scholar, Robert H. Smith School of Business, University of Maryland, College Park | **100%** |
| 2009-2010 | Adjunct Lecturer, Robert H. Smith School of Business, University of Maryland, College Park | **20%** |
| 2010-2011 | Visiting Assistant Professor, Robert H. Smith School of Business, University of Maryland, College Park | **100%** |
| 2011-2018 | Lecturer, Graduate School of Business Administration, Bar Ilan University | **100%** |
| 2018-To date | Senior Lecturer with Tenure, Graduate School of Business Administration, Bar Ilan University | **100%** |
| 2019 | Visiting Assistant Professor, Robert H. Smith School of Business, University of Maryland, College Park | **100%**  ***Sabbatical*** |

D Active Participation in Scientific Meetings

1. 2006, October, *OTM* Confederated International Conferences*,* Berlin, Heidelberg. **Paper presented**
2. 2007, August, *the ninth international conference on Electronic commerce*, ACM. **Paper presented**
3. 2008, INFORMS. **Attendance**
4. 2008, Israel, Statistical Challenges in E-Commerce. **Paper presented**
5. 2010, *the 5th INFORMS workshop on data mining and health informatics (DM-HI 2010), Austin, TX*. **Paper presented**
6. 2013, Statistical Challenges in E-Commerce. **Paper presented**
7. 2014, July, *Computer Software and Applications Conference Workshops (COMPSACW),* **Paper presented**
8. 2014, *the 22nd European Conference on Information Systems* (ECIS), **Poster presented, Conference local chair**
9. 2014, Israel, Statistical Challenges in E-Commerce. **Conference chair**
10. 2015, Statistical Challenges in E-Commerce. **Paper presented**
11. 2015, AWS, Technion. **Attendance**
12. 2016 the Workshop *on Information Technology and Systems* (WITS). **Paper presented**
13. 2017, the Workshop *on Information Technology and Systems* (WITS). **Conference chair,** **Paper presented**
14. 2017, the Israel Association of Information Systems (ILAIS). **Conference chair**
15. 2017, Israel, Statistical Challenges in E-Commerce. **Paper presented**
16. 2018, Israel, Big data & Law. **Paper presented**
17. 2018, *The International Conference on Information Systems (ICIS)* 2018, San Francisco, USA. **Poster presented**
18. 2019 (planned). Informs. **Invited paper**

**Organized scientific conference**

**PROFESSIONAL FUNCTIONS**:

|  |  |  |
| --- | --- | --- |
| **Year** | **Journal / Conference** | **Role** |
| 2014-2016 | International Conference on Information Systems | Associate Editor |
| 2014 | The 1st IEEE International Workshop on Risk Management of OSS Components and Communities | Program Committee member |
| 2014 | European Conference on Information Systems | Local arrangement chair |
| 2015 | European Conference on Information Systems | Associate Editor |
| 2015 – to Date | Decision Sciences Journal | Associate Editor |
| 2016 – to Date | Big Data Journal | Associate Editor |
| 2016 | Expert panel on software testing. Academia Industry Software Quality & Testing (AISTQ) conference | Panelist |
| 2017 – to Date | Graduate School of Business Administration, Bar Ilan University | Head of IS specialization |

**CONFERENCE ORGANIZATION**

|  |  |  |
| --- | --- | --- |
| **Year** | **Journal / Conference** | **Role** |
| 2014 | Statistical Challenges in E-Commerce (http://scecr.org/) | Conference organizer and chair |
| 2017 | Israel Association for Information Systems | Conference organizer and chair |
| 2017 | Workshop on Information Technology and Systems (WITS) Feeder Event | Conference organizer and chair |

Academic and Professional Awards

External Grants

| **Year** | **Foundation** | **Title** | **Sum** | **Co-researchers** | **P.I.** |
| --- | --- | --- | --- | --- | --- |
| 2012-2013 | The American Red Cross, Russ Reid, and Wharton Customer Analytics Center | Disaster Donors and Donor Disasters: Predicting Donor Behavior and Effectiveness of Marketing Communications | (research opportunity award) | Itir Karaesmen, Chris Russel, Wolfgang Jank, Feryal Erhun, and Galit Shmueli | Galit Shmueli |
| 2013-2015 | Ministry of Science and Technology (MOST) | Data Leakage in Social Networks: Detection And Prevention | 1,067,705 NIS | Prof. Bracha Shapira, Prof. David Schwartz, Prog. Lior Rokach, Prof. Yuval Alovich, Prof. Michael Birnhack) | ALL |
| 2012-2015 | NASA | Earth Observations-based Agricultural Production forecasting to assess potential impacts on grain markets and civil unrest. | $ 100,000 annual | Dr. Inbal Reshef, Dr. Kevin Jones | Dr. Inbal Reshef, |
| 2017-2021 | NIH | Piloting a naloxone intervention in an emergency response community to reduce opioid overdoses in Philadelphia | $ 654,686 | PI: Prof. David Schwartz, Prof. Stephen Lankenau | PI: Prof. David Schwartz, Prof. Stephen Lankenau |
| 2019-2021 | Ministry of Science and Technology (MOST) | Ethical Risks in Digital Devices: A Data-Science Approach | 450,000 NIS | With Ayelet Sela and Ittai Bar-Siman-Tov | Inbal Yahav, Ayelet Sela, Ittai Bar-Siman Tov |
| 2019-2021 | Blavatnik Interdisciplinary Cyber Research Center | Towards Higher Accuracy of Behavioral Big Data Analysis: A Qualitatively Augmented Text Classifier Design Method | 560,000 NIS | Dov Teeni and David Schwartz | Inbal Yahav, Dov Teeni, David Schwartz |

Fellowships

|  |  |  |
| --- | --- | --- |
| **Year** | **Award/ Honor** | **Amount Received** |
| 2006-2010 | Dean's Fellowship for summer research, Robert H. Smith School of Business | **annual $13000** |
| 2007 | Saul Gass Fellowship for outstanding PhD student in OM/MS | **$5000** |

Prizes

|  |  |  |
| --- | --- | --- |
| **Year** | **Award/ Honor** | **Amount Received** |
| 2000-2004 | Honor of excellence in undergraduate studies, President Foundation, Technion - Israel Institute of Technology |  |
| 2009 | Abraham Golub Memorial Dissertation Proposal Prize | **$1000** |

F. Membership in Professional Societies

G. Doctoral Students Supervised

|  |  |  |
| --- | --- | --- |
| Name | Topic | Year in program |
| Dena Yadin | The influence of first user comments on the tone of online discourse | 2 |
| Yoav Achiam | TBD | 1 |

Masters Students Supervised:

|  |  |  |
| --- | --- | --- |
| Name | Topic | Year |
| Yoav Achiam | Data leakage in Twitter's social network: detection through users’ temporal ego networks | 2013 |
| Maor Travelsy | Waste of time? Not when the UI is efficient  The user interface as a tool to achieve business’s goals | 2015 |
| Chen Salamania | 'Open Wallet' online- Is the technique of opening the wallet IKEA also works for online purchases? | 2016 |
| Elad Arbel (co-advised with Dr. Lior Fink) | The Effect of Video Sequences on User Preferences | 2017 |
| Daniel Ukashi | Towards the next generation of recommendation systems for news websites- what makes news similar? | 2018 |

Publications

A Books and Monographs

1. Shmueli, G., Bruce, P. C., Yahav, I., Patel, N. R., & Lichtendahl Jr, K. C. (2017). *Data Mining for Business Analytics: Concepts, Techniques, and Applications in R*. John Wiley & Sons.

B Textbooks

C Articles

***Published***

1. Jank, W., & **Yahav, I**. (2010). E-loyalty networks in online auctions. *The Annals of Applied Statistics*, 151-178.
2. Lieberman, M. D., Taheri, S., Mirrashed, F., **Yahav, I**., Aris, A., & Shneiderman, B. (2011). Visual exploration across biomedical databases. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, *8*(2), 536-550.
3. **Yahav, I**., & Shmueli, G. (2012). On generating multivariate Poisson data in management science applications. *Applied Stochastic Models in Business and Industry*, *28*(1), 91-102.
4. **Yahav, I**., & Shmueli, G. (2014). Outcomes matter: estimating pre-transplant survival rates of kidney-transplant patients using simulator-based propensity scores. *Annals of Operations Research, 216*(1).
5. **Yahav, I**., & Shmueli, G. (2014). Directionally sensitive multivariate control charts in practice: Application to biosurveillance. *Quality and Reliability Engineering International*, *30*(2), 159-179.
6. **Yahav, I**. (2016). Network analysis: Understanding consumers' choice in the film industry and predicting pre‐released weekly box‐office revenue. *Applied Stochastic Models in Business and Industry*, *32*(4), 409-422.
7. **Yahav I**., Shmueli G., Mani D. (2016). A Tree-Based Approach for Addressing Self-Selection in Impact Studies with Big Data. *MIS Quarterly. 40(4*), pp. 819-848.
8. Schwartz, D. G., **Yahav, I**., & Silverman, G. (2017). News censorship in online social networks: A study of circumvention in the commentsphere. *Journal of the Association for Information Science and Technology*, *68*(3), 569-582.
9. Shmueli, G., & **Yahav, I**. (2018). The Forest or the Trees? Tackling Simpson's Paradox with Classification Trees. *Production and Operations Management*, *27*(4), 696-716.
10. Cascavilla, G., Conti, M., Schwartz, D. G., & **Yahav, I**. (2018). The insider on the outside: a novel system for the detection of information leakers in social networks. *European Journal of Information Systems*, 27(4), 470-485.
11. **Yahav I,** & Schwartz D. (2018) Citizen engagement and the illusion of secrecy: exploring commenter characteristics in censored online news articles*, Information, Communication & Society*, 21(11), 1620-1638.
12. **Yahav, I.,** Shehory, O., & Schwartz, D. (2018). Comments Mining With TF-IDF: The Inherent Bias and Its Removal. *IEEE Transactions on Knowledge and Data Engineering*, 31(3), pp 437-450.
13. Ayalon L., **Yahav I**., and Lesser O. (2018), From a bird's eye view: Whole social networks in adult day care centers and continuing care retirement communities. *Innovation in Aging*, 2(3).

R & R

1. Geva T., and **Yahav I**., Data-Driven Link Screening for Increasing Network Predictability R&R *TKDE-CS* **.**
2. Ayalon L., **Yahav I**., Location, location, location: Intimate ties among older continuing care retirement community residents. R&R *PLOS ONE*.
3. **Yahav I**., Schwartz D.G., and Welcman Y., The Journey to Engaged Customer Community: Evidential Social CRM Maturity Model in Twitter. R&R *Applied Stochastic Models in Business and Industry*.

BOOKS REVIEWS IN REFEREED JOURNALS (Less than 10 pages)

1. Yahav I. (2013). Introduction to Statistical Methods for Biosurveillance: a Book Review.  The American Statistician, 68(1) pp. 64-65

D Chapters in Books

***Published***

1. Chen, Y., Cornick, N., Hall, A. O., Shajpal, R., Silberholz, J., **Yahav, I**., & Golden, B. L. (2008). Comparison of heuristics for solving the gmlst problem. *Telecommunications Modeling, Policy, and Technology*, *44*, 191-217.
2. Lotze, T., Shmueli, G., **Yahav, I**., Kass-Hout, T., & Zhang, X. (2010). Simulating and evaluating biosurveillance datasets. *Biosurveillance: Methods and Case Studies; Chapman and Hall: Boca Raton, FL*, 23-52.
3. **Yahav, I**., Lotze, T., & Shmueli, G. (2010). Algorithm Combination for Improved Detection in Biosurveillance. *Infectious Disease Informatics and Biosurveillance: Integrated Series in Information Systems*, *1*, 173-189.
4. **Yahav, I**. (2011). Modeling Kidney Allocation: A Data-Driven Optimization Approach, 16

Papers Presented in Scientific Meetings

1. Yahav, I., Gal, A., & Larson, N. (2006, October). Bid-Based approach for pricing web service. In OTM Confederated International Conferences" On the Move to Meaningful Internet Systems" (pp. 360-376). Springer, Berlin, Heidelberg.
2. Yahav, I., Raschid, L., & Andrade, H. (2007, August). Bid based scheduler with backfilling for a multiprocessor system. In Proceedings of the ninth international conference on Electronic *commerce* (pp. 459-468). ACM.
3. Jank, W., Shmueli, G., Dass, M., Yahav, I., & Zhang, S. (2008). Statistical challenges in eCommerce: Modeling dynamic and networked data. In *State-of-the-Art Decision-Making Tools in the Information-Intensive Age* (pp. 31-54). INFORMS.
4. Jank W., Yahav, I. (2008). On the Existence of E-Loyalty Networks in eBay Auctions and Their Structure. Statistical Challenges in eCommerce (SCECR).
5. Yahav, I., & Shmueli, G. (2010). Predicting potential survival rates of kidney transplant candidates from databases with existing allocation policies. In *Proceedings of the 5th INFORMS workshop on data mining and health informatics (DM-HI 2010), Austin, TX*.
6. Yahav, I., Karaesmen, I., & Raschid, L. (2013, December). Managing on-demand computing services with heterogeneous customers. In *Proceedings of the 2013 Winter Simulation Conference: Simulation: Making Decisions in a Complex World* (pp. 5-16). IEEE Press.
7. Yahav, I., Barnes, S., Golden, B., & Wasil, E. (2013, January). Early detection of bioterrorism: Monitoring disease diffusion through a multilayered network. In *IIE Annual Conference. Proceedings* (p. 2561). Institute of Industrial and Systems Engineers (IISE). IIE ISERC Modeling and Simulation Best Track Paper.
8. Yahav, I., Kenett, R. S., & Bai, X. (2014, July). Risk Based Testing of Open Source Software (OSS). In *Computer Software and Applications Conference Workshops (COMPSACW), 2014 IEEE 38th International* (pp. 638-643). IEEE.
9. Yahav, I., Schwartz, D. G., & Silverman, G. (2014, August). Detecting unintentional information leakage in social media news comments. In *Information Reuse and Integration (IRI), 2014 IEEE 15th International Conference on* (pp. 74-79). IEEE.
10. Yahav, I., Kenett, R. S., & Bai, X. (2014, October). Data driven testing of open source software. In *International Symposium On Leveraging Applications of Formal Methods, Verification and Validation* (pp. 309-321). Springer, Berlin, Heidelberg.
11. Shmueli G., and Yahav I. (2014) . The Forest or The Trees? Tackling Simpson's Paradox in Big Data Using Trees: Work in Progress Series. In *proceeding of the 22nd European Conference on Information Systems* (ECIS).
12. Cascavilla, G., Conti, M., Schwartz, D. G., & Yahav, I. (2015, August). Revealing censored information through comments and commenters in online social networks. In *Advances in Social Networks Analysis and Mining (ASONAM), 2015 IEEE/ACM International Conference on* (pp. 675-680). IEEE.
13. Yahav I., Schwartz, D. G. (2015). Censorship Violation through Commenting in Social Media. *Statistical Challenges in eCommerce (SCECR).*
14. Achiam, Y., Yahav, I., & Schwartz, D. G. (2016, August). Why not scale free? Simulating company ego networks on Twitter. In *Advances in Social Networks Analysis and Mining (ASONAM), 2016 IEEE/ACM International Conference on* (pp. 174-177). IEEE.
15. Geva T., and Yahav I. (2016), Data-Driven Network Tie Selection for Node Classification. In Proceeding of the Workshop *on Information Technology and Systems* (WITS).
16. Geva T., and Yahav I. (2017), Data-Driven Network Tie Selection for Node Classification. *Statistical Challenges in eCommerce (SCECR).*
17. Yahav I., (2018) Cognitive Concept Analysis. *Big data & Law*. Israel
18. Ben Ami Z., Geva T., and Yahav I. (2018), The Information Content of Multiword #Hashtags (short paper). *The International Conference on Information Systems (ICIS)* 2018, San Francisco, USA.

**COURSES TAUGHT/TEACING EXPERIENCE**

Graduate (M.B.A):

Data Mining for Business Intelligence (2010-2011, 2018, University of Maryland)

Data Mining in R (2017 - to date, Bar Ilan University)

Analytical Consulting (2017, Bar Ilan University)

Research Methods (2011-2013, Bar Ilan University)

Advanced Research Methods (2013-2018, Bar Ilan University)

Social Network Analysis (2011-to date, Bar Ilan University)