

CURRICULUM VITAE

Dr. Rachel Ravid

ד"ר רחל רביד

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EDUCATION

Ph.d. 2002, Statistics.

Department of statistics, University of Haifa.

Dissertation: "State Dependent Priorities in Service Systems with Exchangeable items".

M.A. 1988, Mathematics.

Department of Mathematics, University of Haifa.

Dissertation: "Customers Delay in Queues with Exchangeability and Bulk Arrivals".

B.A. 1982 Mathematics and Statistics

University of Haifa.

ACADEMIC EXPERIENCE

2002-present: ORT Braude College, Karmiel, Israel, lecturer.

1998 - 2002: ORT Braude College, Karmiel, Israel, Senior teacher.

1989 -1998: ORT Braude College, Karmiel, Israel, teacher

1988 - 1990: Open University, teacher

1987 - 1988: University of Haifa, external teacher

1982 - 1987: University of Haifa, teaching assistant

PROFESSIONAL EXPERIENCE

1989 - 1995: Statistical data analysis, working as a freelancer,
Ziegelman Institute for Marketing Research.

1991: Biostatistical data analysis, working as a freelancer,
The Western Galilee Hospital in Nahariya.

TEACHING EXPERIENCE

The ORT Braude College:

Practical Engineering:

Statistics for Biotechnology (new course)
Statistics for Industrial Engineering and Management.
Operations research
Statistical quality control

Undergraduate Courses:

Applied Statistics for Industrial Engineering and Management (new course)
Probability and Statistics for Biotechnology (new course)
Applied Statistics for Biotechnology (new course)
Probability for Software Engineering
Probability for Electrical Engineering
Stochastic processes in operations research
Probability models in operating systems (new course)
Reliability (new course)
Statistics for industrial Engineering
Probability for applied mathematic
Random processes for applied mathematic

The Open University:

Undergraduate Courses:

Probability and Statistics for science
Statistics for social science

ACADEMIC AND PROFESSIONAL AWARDS

2011: ORT Braude College, award of an excellent faculty member

2010: ORT Braude College, award of an excellent faculty member

1988: Landau prize for M.A. thesis in applied probability

TEACHING ACTIVITIES

The ORT Braude College:

Editing exercise booklets for each course being taught.

1992: Organizing training course in instrumental enrichment.

2000-2003: Member of Braude teaching committee.

2001-2003: Chairman of IE&M teaching committee.

2003: Member of the IE&M Departmental Curriculum Committee.

2005 - 2009: Chairman of the Teaching improving Committee of the Teaching and Learning Center.

2010: Member of the Teaching improving Committee of the Teaching and Learning Center.

PROFESSIONAL ACTIVITIES

2002-2003: IE&M web site manager.

2004-2008: Chairman of the ORT Braude College Library Committee.

2006-present: Academic consultant for candidates to the Department of Industrial Engineering and Management, ORT Braude College.

2008-2010: Chairman of the Students Evaluation of Teaching Committee, ORT Braude College.

2011- Academic consultant for 2nd year students at the Department of Industrial Engineering and Management, ORT Braude College.

2011- Chairman of the ORT Braude College Library Committee

MEMBERSHIP IN PROFESSIONAL SOCIETIES

ORSIS-Operations Research Society-Israel

LIST OF PUBLICATIONS

A. Refereed papers

1. Ravid, R., Bashkansky, E., Dror, S. " Integrating AHP in an FMECA framework for ranking Down syndrome tests". *IIE Transactions on Healthcare Systems Engineering*, 1 (2), p. 91-100, 2011.
2. Gadrich, T., Ravid., R. " The sequential occupancy problem through group throwing of indistinguishable balls", *Methodology and computing in applied probability*, 13 (2), p. 433-448, 2011.
3. Bashkansky, E., Dror, S., Ravid, R., and Grabov, P. "Effectiveness of Product Quality Classifier". *Quality Engineering*, 19 (3), p. 235-244, 2007.
4. Ravid, R., Boxma, O.,J., Perry, D., "Repair systems with exchangeable items and the longest queue Mechanism", To appear in *Queueing Systems (QUES)* (Accepted June 2012).

B. Submitted papers

1. Dror, S., Bashkansky, E, Ravid, R , " House of Security" Submitted to "*International Journal of Safety and Security Engineering*" October 2012

C. International conferences papers

1. Bashkansky, E., Dror, S., Ravid, R., and Grabov, P., "How to Measure Effectiveness of the Quality Classification Station?" *SMRLO10 beer sheva*, 2010.
2. Dror, S., Ravid, R., and Bashkansky, E., "FMECA Framework for Ranking DS Tests", *SMRLO10 beer sheva*, 2010.
3. Gadrich, T., Ravid, R. "Waiting time in the sequential occupancy problem". *In Proceeding of JSM* , Washington, 2009, p. 988-1002.
4. Dror, S., Ravid, R., Bashkansky, E. "FMECA framework for ranking down syndrome tests", *Proceedings of the 20th ICPR Conference on Production Research*, Shanghai, China, August, 2-6, 2009.
5. Dror, S., Ravid, R., and Bashkansky, E., "Identifying Downs Syndrome Fetuses Using Taguchi's Approach: Selecting the Most Appropriate Detection Method", *In Proceedings of the 3rd World Conference on Production and Operations Management, POM* Tokyo, 2008.

6. Gadrich, T., Ravid, R., "The Coupon Collector Problem in Statistical Quality Control", *In Proceeding of World Congress on Engineering*, London, 2008, p. 905-909.

7. Bashkansky, E., Dror, S., Ravid, R., "Accuracy of Redundant Quality Classification Systems", *The 16-th International Conference of the Israel Society for Quality*, Tel Aviv, November 14-16, 2006.

8. Bashkansky, E., Dror, S., Ravid, R., and Grabov, P., "Effectiveness of Product Quality Classifier", *In Proceedings of ICPR 18th – International Conference on Production Research*, Salerno, Italy, 2005.

D. National conferences papers

1. R. Ravid, T. Gadrich "Waiting Time in the Sequential Occupancy Problem", *Fifth Israel Industrial Engineering and Management Research Meeting (IIERM)*, Dead Sea, Israel, 2011.

2. Ravid, R., Bashkansky, E. and Dror, S., "Integrating AHP in an FMECA framework for ranking Down Syndrome tests", *In Proceedings of the 16th Industrial Engineering and Management Conference*, Tel Aviv, Israel 2010.

3. Bashkansky, E., Dror, S., and Ravid, R., "Accuracy of Redundant Quality Classification Systems", *In Proceedings of the 16th International Conference of the Israel Society for Quality*, Tel Aviv, Israel, 2006.

4. Ravid, R, Dror, S. and Bashkansky, E., "Repeated Measurements in Quality Classification Systems", *In Proceedings of the 14th Industrial Engineering and Management Conference*, Tel Aviv, Israel, 2006.

E. conferences abstracts

1. Ravid, R., Boxma, O.,J., Perry, D., ""Sojourn times in the longest queue system with exchangeable items " , *International Conference On Operations Research*, Hannover , 2012.

2. Ravid, R., Boxma, O.,J., Perry, D., "State Dependent Priorities in Service Systems for Exchangeable Items" , *IWAP* , Jerusalem, 2012.

3. Ravid, R., Boxma, O.,J., Perry, D., "Sojourn times in the longest queue system with exchangeable items" *Orsis* , Maale Hachamisha , 2012.

4. Ravid, R., Boxma, O.,J., Perry, D., "State Dependent Priorities in Service Systems for Exchangeable Items" , *International Conference On Operations Research*, Zurich, 2011.

5. Ravid, R., Boxma, O.,J., Perry, D., "State Dependent Priorities in Service Systems for Exchangeable Items", *annual conference of the Operational Research Society (OR 53)*, Nottingham, 2011.

6. Ravid, R., Boxma, O.,J., Perry, D., "State Dependent Priorities in Service Systems for Exchangeable Items" *Orsis* , Acre, 2011

7. Ravid, R, Gadrich, T., Waiting Time in the Sequential Occupancy Problem. *Orsis* , Nir Etzion, 2010.
8. Ravid, R, Gadrich, T, “Waiting Time in the Sequential Occupancy Problem”, *the 5th Interdisciplinary Research Conference*, ORT Braude College, 2009.
9. T. Gadrich, R. Ravid, “The Sequential Occupancy Problem with random sample size”, *the 4th Interdisciplinary Research Conference*, ORT Braude College, 2008.
10. T. Gadrich, R. Ravid “The coupon collector problem with batch drawing”, *the 3th Interdisciplinary Research Conference*, ORT Braude College, 2007.