



אוניברסיטת בן-גוריון בנגב
Ben-Gurion University of the Negev 

Departments of
Information System Engineering and Industrial Engineering & Management

**Software Quality and Testing - Academia and Industry
Symposium**

May 28 2013

Ben Gurion University of the Negev
Senate Auditorium, Building 71



Morning Program

- 09:30 - 10:00** **Greetings**
- 10:00 - 10:45** **Dr. Jasbir Dhaliwal**, University of Memphis **Keynote Talk from Academia: "Leveraging Academia-Industry Collaboration for Software Testing Innovations and Theory Building"**
- 10:45 - 11:00** **Coffee break**
- 11:00 - 11:30** **Mr. Nir Caliv**, Principal Test Architect, Microsoft, Israel **"Continuous Delivery and Test in Production"**
- 11:30 - 12:00** **Dr. Meir Kalech**, Department of Information Systems Engineering, BGU **"Artificial Intelligence Techniques to Improve Software Testing"**
- 12:00-12:30 -** **Mr. Ron Moussafi**, Intel **"The Fab Experience: What Intel Fabs can teach us about Software Development"**
- 12:30-13:00 -** **Prof. Mark Last**, , Department of Information Systems Engineering BGU **"Using Data Mining For Automated Design of Software Tests"**
- 13:00-13:45 -** **Lunch break**



Afternoon Program

- 13:45-14:15 - Prof. Ron F. Kenett, KPA Ltd., Israel**
"Process Improvement and CMMI for Systems and Software"
- 14:15-14:45 - Dr. Amir Tomer, Kinneret Academic College, "Software Intensive Systems Modeling - A Methodological Approach"**
- 14:45-15:30 - Mr. Scott Barber, PerfTestPlus, Inc.**
Keynote Talk from Industry: "A Practitioner's View of Commercial Business's Desired Value Add from Software Testing"
- 15:30-15:45 - Coffee break**
- 15:45-16:45 - Panel discussion: Product Quality and Software Quality: Are They Aligned?**
Chairs: Prof. Mark Last, Mr. Scott Barber, Prof. Amos Notea, Mr. Nir Heller
- 16:45-17:15 - Closing Speech**



SQ&T - Sharing Some facts

A brief look into the interaction of the software testing discipline and the academic world

Dani Almog – Ben Gurion
university of the Negev Israel



SW Quality & Testing education

- On the Job
- Privet schools (certification) – flexible
- Engineering Collages (supplementary)
- Universities engineering faculties
 - Compulsory for SW engineering
 - Elective for other engineering
 - Limited graduated programs

Note the almost absent of CS

Sample tour in a6 Israel

partial list of academic schools

Ort Brauda – **Computer Testing & Verification**

Technion - **Software Quality Assurance**
Kineret

Ariel University – **Software Quality Assurance**

Bar Ilan – **software verification**

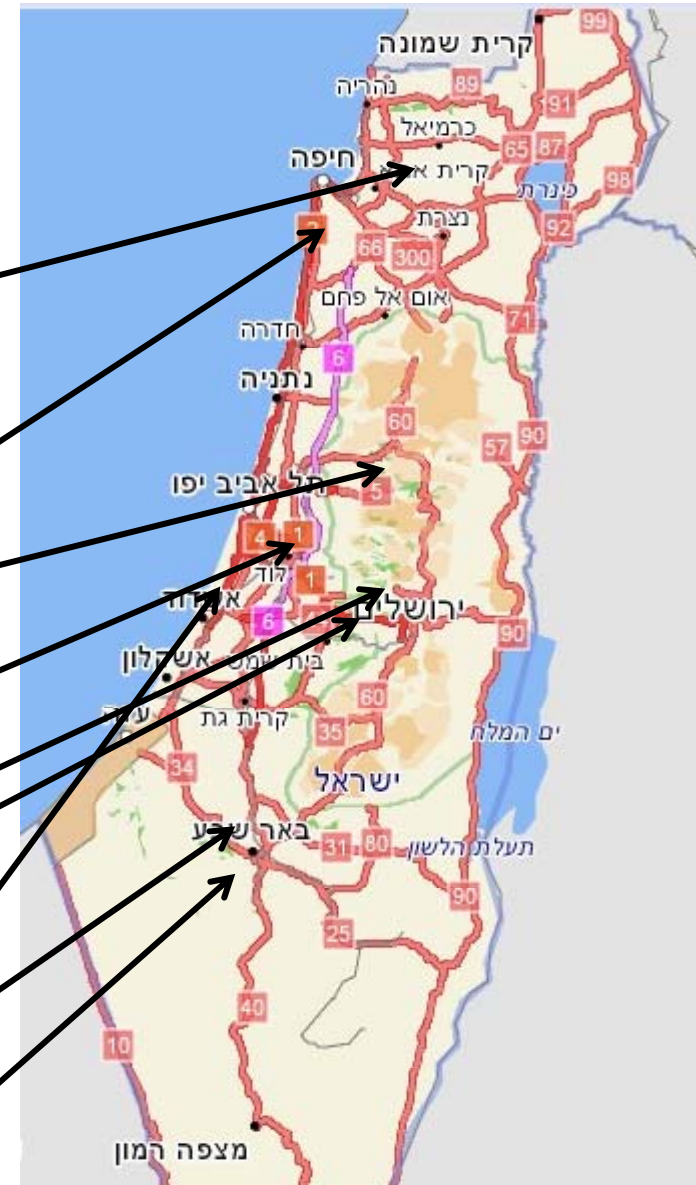
Hebrew university Jerusalem – **Software Testing**

JCE

SW testing & Verification

SCE - **Testing and verification in SW engineering**

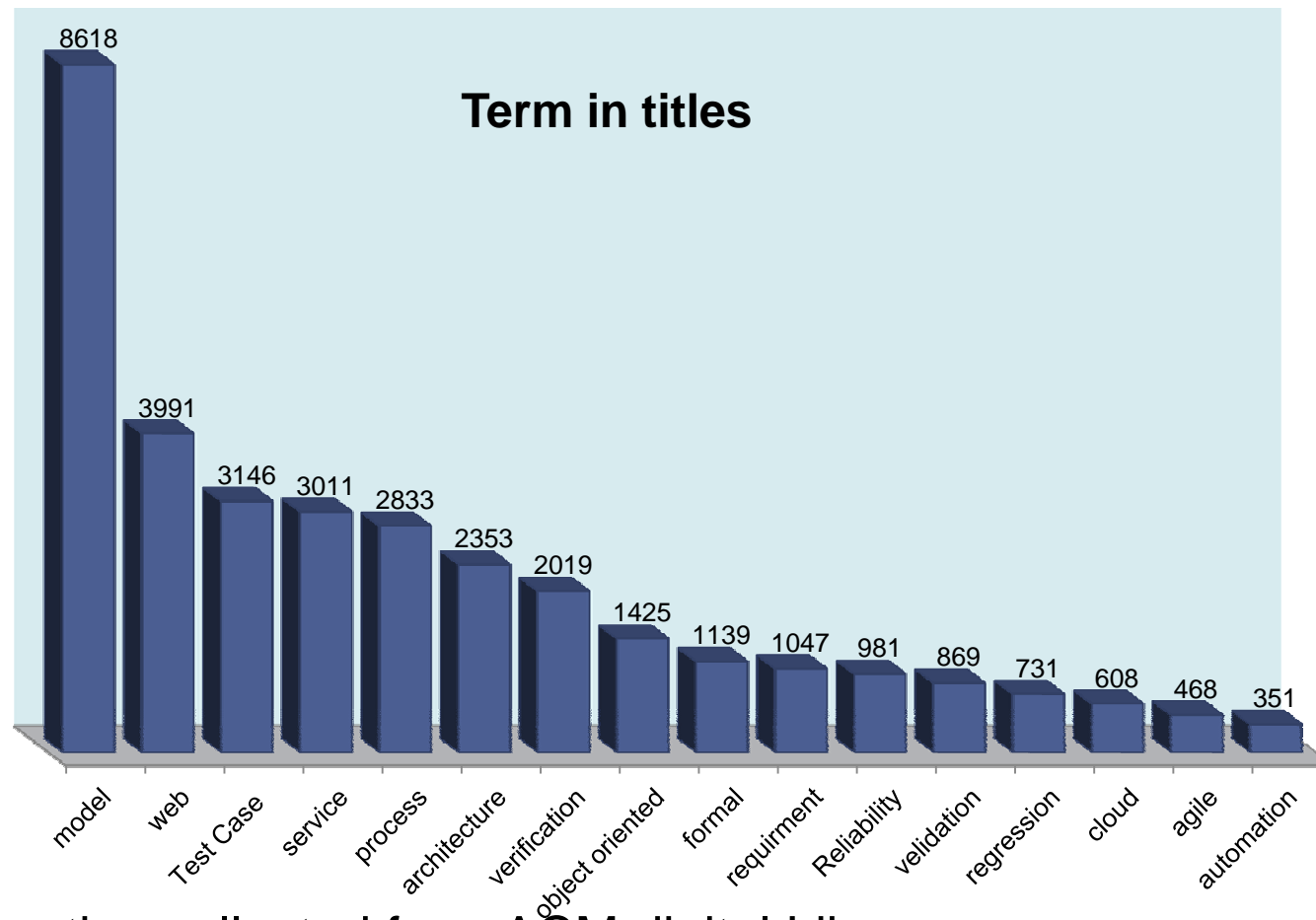
BGU – **Software Quality engineering**
- Advance topics in SW quality



....I have changed the map - now without the PALESTINE sign

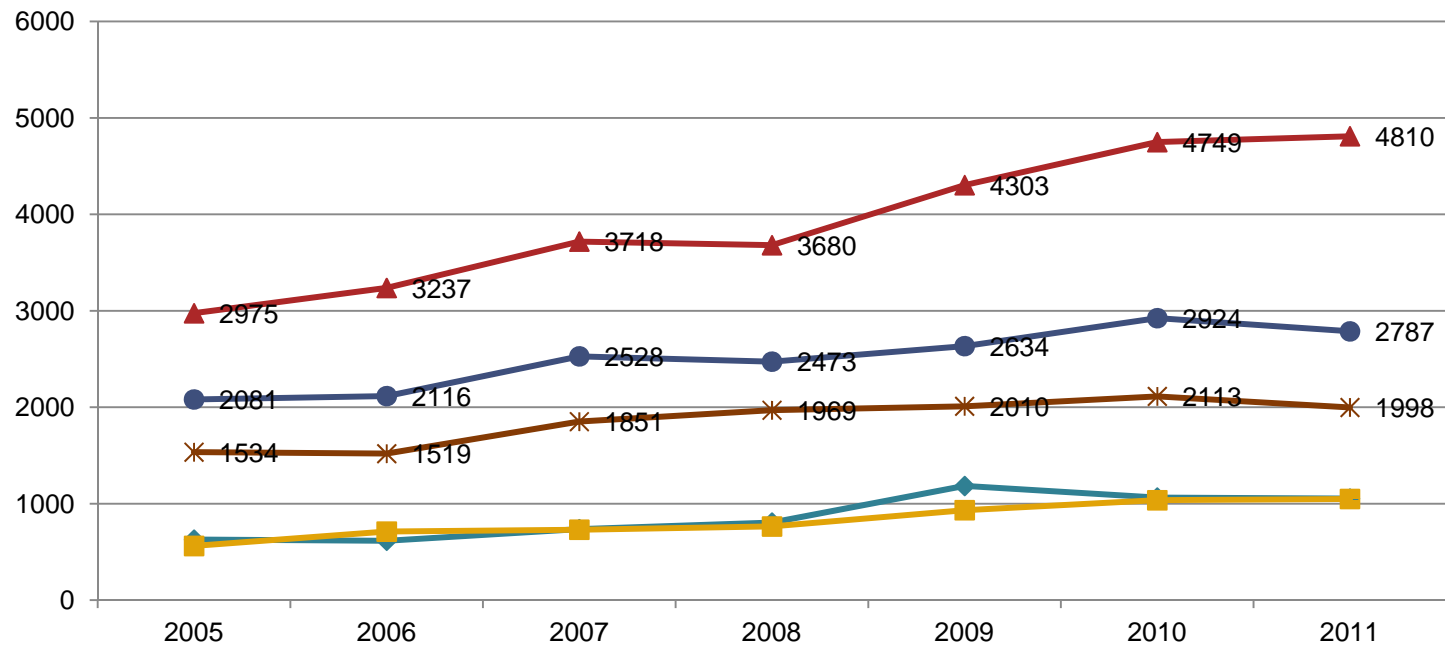
alonl, 29/04/2010

Published research papers



Information collected from ACM digital Library — *The ACM Guide to Computing Literature* (Bibliographic citations from major publishers in computing)

Yearly publication progress

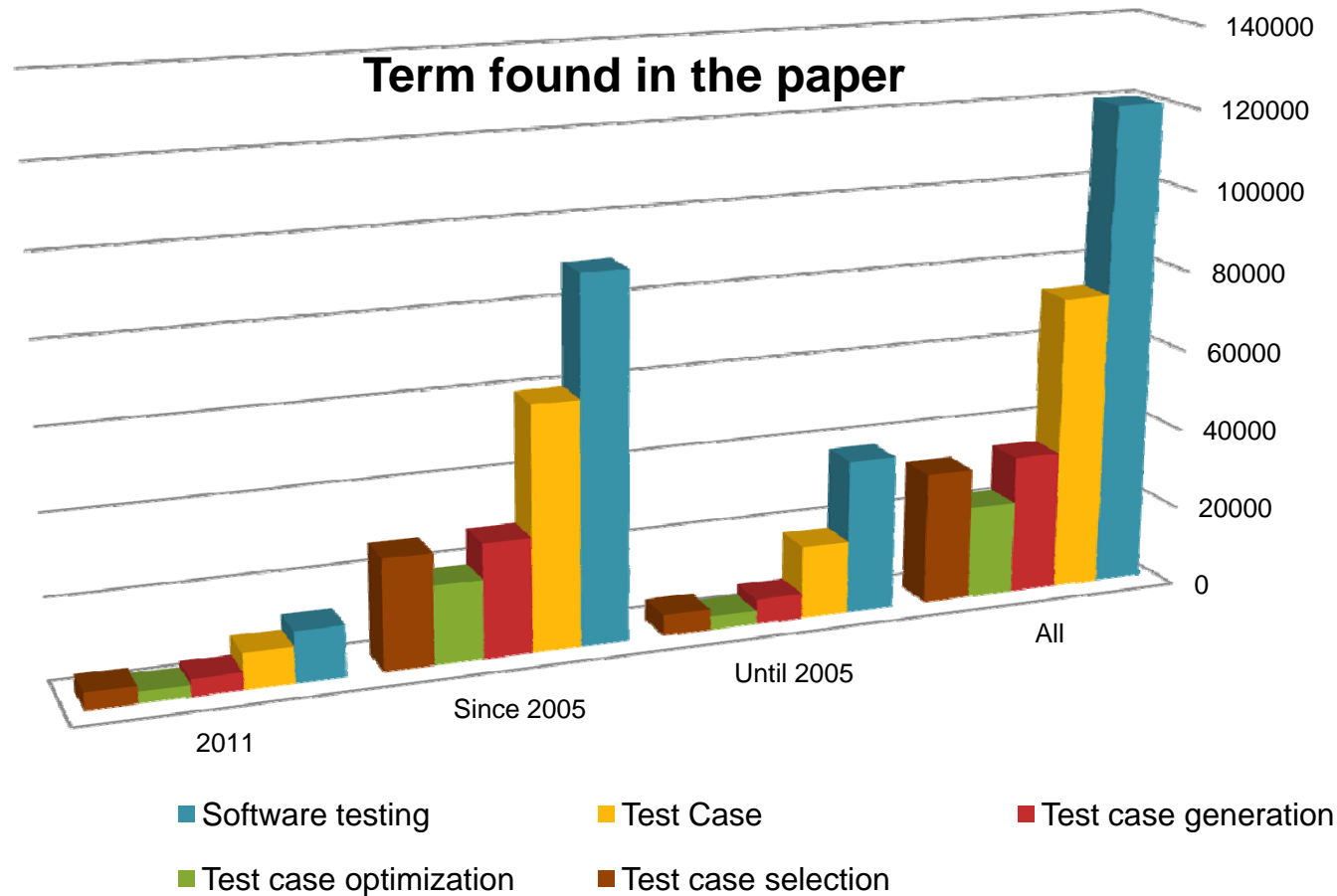


—*— software security
—■— Unit test

—●— software testing
—▲— Test Case

—◆— Test automation

What about research (explosion)

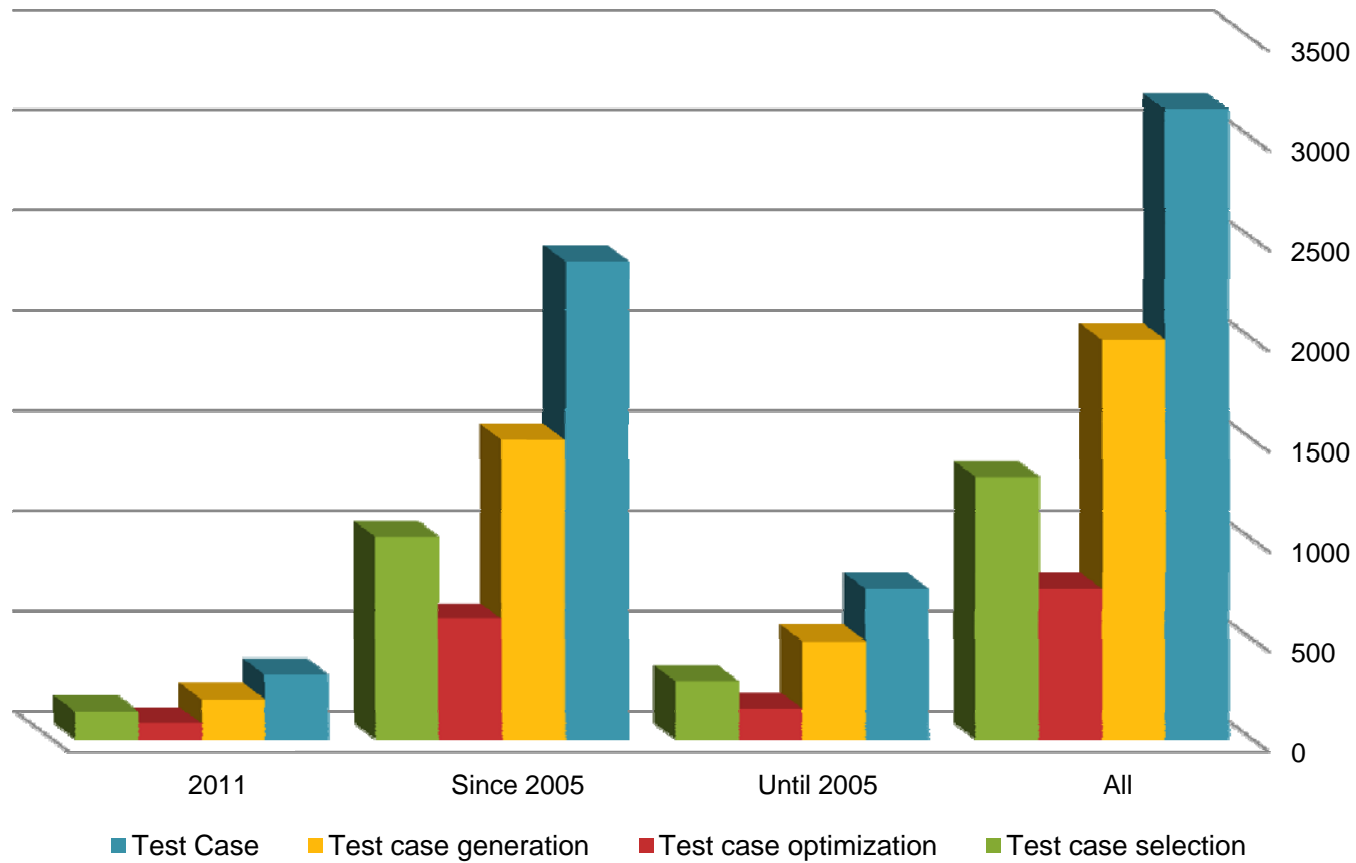



The information were collected from ACM digital Library – *The ACM Guide to Computing Literature*(Bibliographic citations from major publishers in computing)

Test Case related papers

- terms found in the tittle

Term found in paper title





Research trajectories (threads)

- Search into the gap between development and testing (new software development/testing paradigms)
- Test case generation/optimization/selection
- SOA testing and testing as a service
- Testing models for the cloud
- Testing for security
- Lean Testing
- SoS & test automation