



**Name: Prof. Adi Armoni**

**Date: August 2016**

## **CURRICULUM VITAE**

### **Personal Details**

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Marital Status: Married + 3

### **Higher Education**

- 1977-1981      BSc. in Industrial Engineering Tel Aviv University, Faculty of Engineering. Degree awarded in 1982
- 1983-1985      MBA - Tel Aviv University, School of Business. Master of Business Administration, (Magna Cum Laude) Major: Information Systems and Finance. Degree awarded in 1986
- 1987-1991      Tel Aviv University, School of Business, Information Systems/Artificial Intelligence PhD. Awarded 1992

### **Academic Ranks and Tenure in Institutes of Higher Education**

| <b>Dates</b> | <b>Institution and Department</b> | <b>Rank/Position</b> |
|--------------|-----------------------------------|----------------------|
| 1986-2000    | Tel Aviv University               | Adjunct lecturer     |
| 1991         | College of Management             | Senior Lecturer      |
| 2003         | College of Management             | Associate Professor  |



## **Offices in Academic Administration**

- 1990 - 1995      Academic supervisor of registration and admissions, College of Management.
- 1991-2006      Head, joint program with the Teachers' College of Technology, College of Management, School of Business Administration.
- 1991-2006      Head, Department of Computers and Information Technology, Teachers' College of Technology. Responsible for preparing the academic program, and obtaining the approval of the Israel Council for Higher Education.
- 1993 - 1997      Chairman, admissions committee, College of Management, School of Business Administration.
- 1993 - 1997      Chairman, scholarships committee, College of Management, School of Business Administration.
- 1993 - 1997      Dean, Students Affairs, College of Management, School of Business Administration.
- 1993 - 2007      Member, teaching committee, College of Management, School of Business Administration.
- 1997 - 2007      Head, Information Technology Department, College of Management, School of Business Administration.
- 2004 – 2007      Chair, Graduate studies – Graduate school of business administration, College of Management
- 2009 – Present      Member in different professional committees of the Council for higher education (CHE), (Wizo Haifa academic center, Achva College and more)
- 2007 – 2013      Dean, School of business administration, at the college of management,
- 2016              Chair, BA in Management Information Systems, new program to be launched in coming October.
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## **Scholarly Positions and Activities outside the Institution**

- 1992-1996 Board member, Engineers Chamber, Industrial Engineering Chapter.
- 1997-2000 Board member, The Israeli Association of Information Technology.
- 1993-Present Information Resources Management Association.
- 1993-Present INFORMS – Institute for Operation Research and the Management Sciences.
- 1999-Present AIS – Association for Information Systems.
- 1999-Present Information Resources Management Association – World representative for the Middle East and Israel.

Associate Editor, **Journal of Global Information Management** (Since January 1998)

Associate Editor, **Annals of Cases on Information Technology Applications and Management in Organizations** (Since June 1998)

Associate Editor, **Journal of Operations and Quantitative Management** (Since January 2001)

Associate Editor **Information Resources Management Journal (IRMJ)** (Since August 2001)

## **Participation in Scholarly Conferences**

### **Active Participation**

| <b>Date</b> | <b>Name of Conference</b>                          | <b>Place</b>     | <b>Subject of Lecture/Discussion</b>                              | <b>Role</b>        |
|-------------|--|------------------|---|--------------------|
| 1992        | IEEE colloquium on AI                              | London           | Intelligent decision support systems an Medicine                  | Key note speaker   |
| 1995        | International conference of INFORMS                | Singapore        | Artificial intelligent applications in medicine                   | Paper presentation |
| 1995        | International society for decision support systems | Hong Kong        | The use of decision tools to predict IDDM                         | Paper presentation |
| 1997        | International congress on nursing                  | Stockholm Sweden | Prediction of mall practice incidents by using computerized tools | Paper presentation |
| 1998        | International conference of INFORMS                | Montreal Canada  | The use of neural networks in medical decision process            | Paper presentation |
| 1998        | IRMA international conference                      | Boston, USA      | Knowledge based systems   | Session chair      |
| 1998        | World congress on medical informatics              | Seoul, Korea     | Methods for gathering and analyzing medical data                  | Paper presentation |



| <b>Date</b> | <b>Name of Conference</b>  | <b>Place</b>      | <b>Subject of Lecture/Discussion</b>                            | <b>Role</b>                                 |
|-------------|--|-------------------|---|---|
| 1998        | information resources management association                           | Boston, USA       |   | Scientific committee member                 |
| 1999        | IRMA international conference  | Vancouver, Canada | Decision support technologies and expert systems                | Session chair                               |
| 2000        | IRMA international conference  | Alaska            | Data Mining   | Session chair                               |
| 2000        | information resources management association, international conference | Alaska            |   | Scientific committee member                 |
| 2001        | Management association international conference                        | Toronto, Canada   | Health care information systems                                 | Session chair                               |
| 2002        | information resources management association, international conference | Seattle, USA      | Data mining and medical informatics                             | Session chair & scientific committee member |
| 2003        | information resources management association, international conference | Atlanta, USA      |   | Scientific committee member                 |
| 2004        | information resources management association, international conference | New Orleans, USA  |   | Scientific committee member                 |
| 2005        | information resources management association, international conference | San Diego, USA    | Data mining and analytics for the insurance industry            | Session chair & scientific committee member |
| 2011        | WADS-Algorithms and Data Structures Symposium,                         | NYC, USA          | The use of complexity in machine learning algorithms            | Paper presentation                          |
| 2011        | HICS – Hawaii International Conference on System Sciences              | Hawaii            | Presenting the use of neural networks in medical data analytics | Paper presentation                          |
|             |  |                   |   |   |
|             |  |                   |   |   |
|             |  |                   |   |   |
| 2013        | Israeli association for on line health care                            | Tel Aviv          | Overview of different cutting edge application                  | Chairman of the scientific committee        |
| 2014        | International conference on business and information                   | Osaka, Japan      | Health care and data analytics in the 21 <sup>st</sup> century  | Session chair & paper presentation          |



## **Scholarships, Awards and Prizes**

- 1987-1990      Scholarship, for PhD students, Tel Aviv University
- 1991            Grant for research work, The Adams Institute for Information Systems.
- 1995            The R. Shador Prize for excellence in research, College of Management, School of Business.
- 1998-2000     Prizes for excellence in lecturing, Tel Aviv University, School of Business.
- 1992-2005     Prizes for excellence in lecturing, College of Management, School of Business.

## **Teaching**

### **Courses Taught in Recent Years**

| <b>Year</b> | <b>Course Name</b>                     | <b>Type: Lecture/Seminar/Workshop/<br/>High Learn Course/Introduction</b> | <b>Degree</b> | <b>No. of Students</b> |
|-------------|--|---|---------------|------------------------|
| 1986-2000   | Intr. To computer science              | course  | BA            | 50                     |
| 1990-2016   | Computerized Management application    | course  | Ba, MBA, MSc. | 50                     |
| 1993        | Health care information systems        | course  | MBA           | 50                     |
| 1995-2007   | Information systems strategy           | seminar   | MBA           | 30                     |
| 2005-2012   | Advanced topics in information systems | seminar   | MBA           | 30                     |
| 2005-2015   | Business game                          | Seminar   | BA, MBA       |                        |
|             |  |   |               |                        |



## **Professional Experience**

- 1981 - 1986 Army service in the framework of the Planning Division, the Systems Analysis Center (present rank: Major)
- 1997–2001 Senior advisor for the World Bank. Worked on projects to develop and implement Management Information Systems in Eastern Europe and Africa.
- 1997–Present Team director for a large-scale projects dealing with the design and implementation of a comprehensive method for the supervision and control of the services provided to the Division of Medicine of the IDF (Israel Defense Forces) by civilian health care institutes.
- 1997-Present Consultant, strategic information system, supporting the activities of a big private health care institute.
- 1998–Present Preparing business plans and representing investors in a variety of projects and startup companies. The main projects dealt with Web based medical records, Internet services of behavioral tests, and the design of a "Meta Platform" for Business-to-Business (B2B) applications.
- 2000-Present Founder and President of KBIS LTD, the leading Israeli software company that had developed and implemented a rule based artificial intelligence software for auto adjudication of Health care claims. KBIS has become the Industry standard for auto adjudication systems and serves the seven largest Israeli insurance carriers as well s the IDF and the ministry of defense.
- 2001-Present Chairman of SigmaKnowledge Inc, a leading business process management software company that develops and implements rule-based information systems for the insurance and health care industries. SigamKnowldge has costumers and offices both in Israel and the USA
- 2003 – Present Consultant for venture capital and private equity companies regarding their investments and in portfolio companies.
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## **PUBLICATIONS**

### **Ph.D. Dissertation**

**Title of doctoral dissertation:** "Knowledge elicitation for systems supporting problem solving involving subjective judgment" 1991, 325 pages . Supervisor: Prof. Philip Ein -Dor.

### **Scientific Books (Refereed)**

1. Armoni A, (Editor) Healthcare Information Systems: Issues and Trends Toward the Next Millennium, IDEA Group Publishing, New-York, January 2000 (280 pages)
2. Armoni A, (Editor) Effective Healthcare Information Systems, IRM Press, New-York, February 2002 (340 pages)

### **Articles in Refereed Journals**

#### **Published**

1. Armoni A., *"Knowledge Acquisition for Medical Diagnosis Systems"*, *Knowledge-Based Systems*, Vol. 8 Aug. 1995, pp. 223-226.
  2. Armoni A., *"Building More Accurate and Consistent Knowledge-Base: the Expert's Point of View"*, *Information Technology Management and Organizational Innovations*, May 1996, pp. 377-382
  3. Armoni A., *"Decision Making Process by Experts: An Empirical Point of View"*, *Managing Information Technology*, Vol. 112, No. 2, May 1997, pp. 344-350
  4. Armoni A., *"Utilization of Neural Networks in Medical Diagnosis"*, *M.D. Computing*, Vol. 15, April 1998, pp. 100-104
  5. Armoni A., *"The Design and Implementation of the Republic Georgia's Health Information Network"*, *Journal of Global Information Management* Vol. 7 No. 3, January 1999, pp. 42-52
  6. Armoni A., *"Information Technology and Healthcare"*, *Journal of Global Information Management* Vol. 8, No. 2, April-June 2000, pp. 3-7
  7. Armoni A., *"Internet2 - WWW – Where, When and Why"*, *Informing Science Journal* Vol. 4 No. 3, October 2001, pp. 95-104.
  8. Armoni A, *" Data security management in distributed computer systems"*, *Informing science Journal*, Vol. 5 No. 1, 2003
  9. Armoni A, *"A Meta Model for computerized Business Processing Management "*, *Journal of Global information Management*, Vol. 5 No. 2, May 2004
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10. Armoni A, "*Methodology for the development and implementation of computerized Business Processing Management – for the insurance industry*", *Knowledge-Based Systems, Vol. 2 No 4, October 2005*

## **Articles or Chapters in Scientific Books**

### **Published**

1. Armoni A., "**The Use of Machine Learning Techniques to Enhance the Accuracy of Retrieved Probabilities**", Effective Utilization and Management of Emerging Information Technologies, Edited by M. Khosrowpour, pp. 497-501. Idea Group Publishing, May 1998
2. Armoni A., "**The Use of Artificial Intelligence in the Medical Domain**", Healthcare Information Systems Toward the Next Millennium. pp. 129-148, IDEA Group Publishing, , 2000
3. Armoni A., "**Diabetes Mellitus – Evaluating the Diagnostic Probabilities**", Healthcare Information Systems Toward the Next Millennium, pp. 169-179. IDEA Group Publishing, 2000
4. Armoni A., "**Intelligent and information systems at the healthcare services** ", Effective Health care Information Systems, pp. 57-75. IRM Press, 2002

## **F. Articles in Conference Proceedings**

### **Published**

5. Armoni A., "**A Data-Based Management System for Health Care**", Proceedings of the 10th International Public-Health services. Conference, 1987
  6. Armoni A., "**Analysis of the Inconsistency in Assessing the Probability of Subjective Events**", IEEE Colloquium on Intelligent Decision Support Systems and Medicine, London, May 1992
  7. Armoni A., (With P. Ein Dor) "**Knowledge Elicitation for Systems Supporting Problem Solving Involving Subjective Judgment**", Proceedings of the 7th Annual Conference of the Adams Institute for Management Information Systems, Tel-Aviv, May 1993, pp. 46-51 (in Hebrew).
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8. *Armoni A.*, **“Tackling the Problems Concerning the Acquisition of Medical Knowledge”**, Proceedings of the 7th Annual Conference of the Israeli Association for Information Systems in Medicine, Tel-Aviv, April 1994, pp. 51-55 (in Hebrew)
  9. *Armoni A.*, (*With Zviran M., and Varon M.*) **“Concepts for Computerizing the Clinical Information in Medical Institutes”**, Proceedings of the 7th Annual conference of the Israeli Association for Information Systems in Medicine, Tel-Aviv, May 1995, pp. 34-42. (in Hebrew).
  10. *Armoni A.*, **“Knowledge Acquisition for Medical Diagnosis”**, Proceedings of the International Conference of INFORMS Institute for Operation Research and the Management Sciences. Singapore, June 1995
  11. *Armoni A.*, **“Knowledge Acquisition for Knowledge-Based Systems”** Proceedings of the 3rd International Conference of the International Society for Decision Support Systems. Hong-Kong, June 1995
  12. *Armoni A.*, **“Artificial Intelligence and its Applications in Medicine”**, Proceedings of the International Conference of INFORMS Institute for Operation Research and the Management Sciences. San Diego, May 1997
  13. *Armoni A.*, **“Artificial Intelligence and Medical Informatics - A Practical Point of View”**, Proceedings of the 6th International Congress on Nursing Informatics, Stockholm, Sweden, September 1997
  14. *Armoni A.*, **“Rule based information Systems”**, Proceedings of the International Conference of INFORMS Institute for Operation Research and the Management Sciences. Dallas, October 1997
  15. *Armoni A.*, **“Utilization of Neural Networks in Medical Diagnosis”**, Proceedings of the International Conference of INFORMS Institute for Operation Research and the Management Sciences. Montreal, April 1998
  16. *Armoni A.*, **“Consistency and Accuracy of the Medical Diagnosis Process – an Empirical Point of View”**, Proceedings of the 9<sup>th</sup> World Congress on Medical Informatics (MEDINFO) Seoul Korea, August 1998
  17. *Armoni A.*, **“A meta-model for data security in distributed systems”**, Proceedings of the International Conference of INFORMS Institute for Operation Research and the Management Sciences. Seoul, Korea, June 2001
  18. *Armoni A., Rotstein Z.*, **“Data Warehousing and Data Mining as a Tool to Gain a Competitive Edge in Healthcare Institutes”**, Proceedings of the International Conference of IRMA Information Resource Management Association, Anchorage, Alaska, May, 2001
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