

Ali Rodan, MIEEE

Personal

Address	Business Information Technology (BIT) department. KASIT, The University of Jordan, P.O.BOX 11942, Amman, Jordan	Nationality	Jordanian
Contact	Mobile : +96279 7335203 Office : +96265355000 (ext . 23812 or 22631)	Emails	Director.cc@ju.edu.jo A.Rodan@ju.edu.jo AliRodan@gmail.com
Status	Married	Google scholar profile:	http://scholar.google.com/citations?user=n8Z3RMwAAAAJ&hl=en

Education

2008 – 2012	The University of Birmingham PhD in Computer Science <i>Thesis Title: Architectural Designs of Echo State Network. with Prof. Peter Tino</i>	Birmingham, UK
2004 – 2005	Oxford Brookes University Master in Computer Science (MSc.) <i>Dissertation: Secure Electronic Cash Systems using Web Service Technology with Dr. Catherine Hobbs</i>	Oxford, UK
2000 – 2004	Princess Sumaya University for Technology BSc degree in Computer Science <i>Project: E-Learning Tool and Online Test Examination Using ASP.Net with Prof. Walid Salameh</i>	Amman, Jordan
1999 – 2000	Al-Ittihad Private High Schools High School Certificate (Tawjeehi), Scientific Stream	Amman, Jordan

Research Interest

Reservoir Computing, Recurrent Neural Networks, Machine Learning, XML and Data Mining, Knowledge Discovery in Database.

Employment and Experience

- **Director of Computer Center, The University of Jordan, Amman, Jordan.**
7th Sept, 2014 – present.
- **Chairman of Business Information Technology Department, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan.**
2nd Sept, 2013 – 4th Sept, 2014
- **Assistant Professor, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan**
12th Aug, 2012 – present.
Teaching: Business Intelligence, Digital Logic Design , Web Application Development, Web Publishing, and Fundamentals of Information Technology.
- **Research Associate, The Supplies Group Ltd, High Wycombe, UK.**
6th June, 2011 – 23th Dec., 2011.
I worked on a Knowledge Transfer Partnership (KTP) project "PREDICTION OF CUSTOMER LIFETIME VALUE". It's a joint project between the University of Birmingham (Prof. Peter Tino), The University of Warwick (Dr. Sarabjot Anand), and the Supplies Group Company (Noah Gresham).

- **Teaching Assistant, The University of Birmingham, Birmingham, UK.**
3rd Oct, 2008 – 27th June, 2012
I have been the teaching assistant for the following modules:
 - Foundations of Computer Science 1 (BSc. level) (Semester1 2008, 2009, 2010).
 - Foundations of Computer Science 2 (BSc. level) (Semester2, 2009, 2010, 2012).
 - Fundamentals: Database Technology (MSc. level) (Semester 2, 2009).
 - Information and the Web (BSc. level) (Semester 2, 2010).
- **IT Lecturer, Emirates College of Technology, Abu Dhabi, UAE**
1st Sept, 2005 – 14th July, 2008
I have been responsible of teaching the following Courses to Diploma and Undergraduate Students:
 - Object oriented Programming (Java, C++)
 - Data and Web Mining Applications (Data Warehouse, Data Mart, Decision support Resources).
 - Relational Database Design (*Including practical work on Oracle 10g*).
 - System analysis and Design
 - Advance Web Development (XHTML 1.0, XML, DTD, CSS).
 - Computer Skills (ICDL).
- **Acting IT Coordinator, Emirates College of Technology, Abu Dhabi, UAE**
1st June, 2007 – 2nd Sept, 2007 (Summer Term).
 - Teaches IT Courses.
 - Plans, organize, implements, and evaluates the IT faculty activities.
 - Supervises academic advising services
 - Participates in the process and coordinates the regular review of curricula.
 - Approves transfer of credits of courses in IT faculty.
 - Assumes memberships of the concerned college committees.

List of publications

Journal Publications:

- **A Rodan, A Fayyoumi, H Faris, J Alsakran, O Al-Kadi: *Negative Correlation Learning for Customer Churn Prediction: A Comparison Study.***
The Scientific World Journal, accepted, Sept. 2014.
- **A Rodan, H Faris, J Alsakran, O Al-Kadi: *A Support Vector Machine Approach for Churn Prediction in Telecom Industry.***
Information-An International Interdisciplinary Journal 17 (8), 3961-3970, 2014.
- **H. Chen, P. Tino, A. Rodan and X. Yao: *Learning in the Model Space for Cognitive Fault Diagnosis.***
IEEE Transactions on Neural Networks and Learning Systems, 25(1), pp 124-136, 2014. (c) IEEE.
- **J Alsakran, A Rodan, N Alhindawi, H Faris: *Visualization analysis of feed forward neural network input contribution.***
Scientific Research and Essays 9 (14), 645-651, 2014.
- **N Alhindawi, J Alsakran, A Rodan, H Faris: *A Survey of Concepts Location Enhancement for Program Comprehension and Maintenance.***
Journal of Software Engineering and Applications 7 (5), 413-421, 2014.

- H Faris, M Alkasassbeh, **A Rodan**: *Artificial Neural Networks for Surface Ozone Prediction: Models and Analysis*.
Polish Journal of Environmental Studies 23 (2), pp.341-348, 2014.
- H Faris, N Ghatasheh, **A Rodan**, M Abu-Faraj: Predicting Surface Ozone Concentrations using Support Vector Regression
Life Science Journal, 11 (6), pp.126-131, 2014.
- P. Tino and **A. Rodan** : Short Term Memory in Input-Driven Linear Dynamical Systems.
Neurocomputing, Vol. 112, pp.58-63, 2013. (c) Elsevier.
- **A. Rodan** and P. Tino: Simple Deterministically Constructed Cycle Reservoirs with Regular Jumps.
Neural Computation, 24(7), pp 1822-1852, 2012. (c) MIT Press.
- **A. Rodan** and P. Tino: Minimum Complexity Echo State Network.
IEEE Transactions on Neural Networks, 22(1), pp 131-144, 2011. (c) IEEE.

Refereed Conference Papers

- P. Tino and **A. Rodan**: Short Term Memory Quantifications in Input-Driven Linear Dynamical Systems.
20th European Symposium on Artificial Neural Networks - Computational Intelligence and Machine Learning- ESANN 2012, Bruges (Belgium), 25-27 April 2012, pp. 43-48., 2011.
- **A. Rodan** and P. Tino: Negatively Correlated Echo State Networks.
19th European Symposium on Artificial Neural Networks - Computational Intelligence and Machine Learning- ESANN 2011, Bruges (Belgium), 27-29 April 2011, pp. 53-58., 2011.
- **A. Rodan** and P. Tino: Simple Deterministically Constructed Recurrent Neural Networks.
In **Intelligent Data Engineering and Automated Learning (IDEAL 2010)**, pp. 267-274, Lecture Notes in Computer Science, LNCS 6283, Springer-Verlag, 2010.

Invited Talks

- **A. Rodan** and N. Landia: *Optimisation of Online Ad-Spend with regard to Predicted Customer Lifetime Value*.
KTN project presented at the Alan Tayler Day, **St Catherine's College, University of Oxford**, Oxford, UK, Nov., 2011.
- **A. Rodan** : *Demystifying Reservoir Computing*.
School of Computing and Mathematics, Keele University, Keele, Staffordshire, UK, March, 2011.
- **A. Rodan** : *Reservoir Computing Methods for RNN training*.
School of Computer Science, The University of Birmingham, Birmingham, UK, May 2010.

Case Studies

A. Rodan, P. Tino and N. Gresham: *Prediction of Customer Lifetime Value, A case study for the KTP project:*

Link: https://connect.innovateuk.org/documents/3000302/6460200/IP11-014_TSG_Birmingham_CaseStudy.jsessionid=CC2266E8266A3946EF7DB99812A7AFF5.1?version=1.0

Journal and Conference refereeing

- I have referred for the following Journals and Conferences.

Journals:

- IEEE transactions on Neural Networks
- Neural Computation MIT Press.

Conferences:

- ICONIP 2012
- ESANN 2011 and 2012
- IDEAL 2010 and 2011
- IJCNN 2010
- ICANN 2010

- I organized a **special session "Reservoir Computation"** at **IJCNN 2010** Conference in Barcelona, Spain with **Prof. Peter Tino** (University of Birmingham) and **Dr. Pedro Gutierrez Pena** (University of Cordoba, Spain).

-I also involved in organizing a special session "**Theory and Practice of Adaptive Input Driven Dynamical Systems**" at **ESSAN 2012** Conference in Bruges, Belgium with **Prof. Peter Tino** (University of Birmingham), **Prof. Herbert Jaeger** (Jacobs University, Germany) and **Prof. Jochen Steil** (Bielefeld University , Germany).

Representative Person Roles

- King Abdullah II School for Information Technology's (KASIT) representative person in the university council, 2014-present.

Participation in Committees

- **College Level**
 - PhD program in Computer Science Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Scientific Research Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Graduate Studies Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Study Plan Committee King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
- **Department Level**
 - Graduate Studies Committee, Department of Business Information Technology, KASIT, The University of Jordan, 2014 – present.
 - Student Training Committee, Department of Business Information Technology, the University of Jordan, 2012 – present.

- Appointment and Promotion Committee, Department of Business Information Technology, the University of Jordan, 2013 – present.
- Study Plan Committee, Department of Business Information Technology, the University of Jordan, 2013 – present

Master Students Supervision

- **Duaa Elsarraj**, MSc. Thesis Title: “Demystifying Echo Sate Network with deterministic simple topologies, The University of Jordan, Feb. 2014- present. I also co-supervised the following Master students Thesis at the University of Birmingham, UK:
- **May Tamara Stow**, MSc. Thesis Title: "Memory Capacity of Recurrent Neural Networks", **finished Oct. 2011.**
- **Jiazhen Xie**, MSc. Thesis Title: "Modelling Customer Lifetime Value", **finished Oct. 2011.**

Programming Skills and Projects

Programming

- C/C++
- JAVA
- Visual Basic and VB.Net
- Pascal, Cobol, Assembly
- Parallel Programming PVM and Beowulf Cluster.
- Client /Server Applications using Java RMI and SOAP.
- SQL, PL/SQL
- Network Security Using OpenSSL
- CSP Formal notation for design concurrent system Language
- Formal Specification Using Z notation, UML
- Crystal Reports, SQL Server 2012
- HTML 5.0, XHTML 1.1 Strict, XML
- CSS, DTD, XML Schema, Schematron

System Administrations

- Linux, Solaris, Unix
- Microsoft Windows 2000, XP.

PROJECTS

- Master Dissertation Topic: Secure Electronic Cash Using Web Services.
- E-Learning Tool and Online Test Exams Using ASP.Net
(*B.Sc. Graduation Project*)
- Distributed Bank System (Web Service Application) using GSOAP.
- Weather Simulation using JAVA RMI.
- Train Simulation Using PVM and Beowulf Cluster.
- Establish Notepad Using Java.

Personal Skills

- First year research students representative 2009 at the University of Birmingham.
- I was elected as the MSc. Students Representative 2004, which enabled me to develop my communication skills at Oxford Brookes University.
- Manage to live and work with other people from different countries.
- Qualified to work within a team.
- Manage to work under pressure, working for long hours.

Interests / Activities

Reading, Web Browsing, and Travelling.